

Case Study C

(ERC Certificate S-4859-1)

SOLUTION1 PAS - (ERC History S-4859-1)

File View Window

- [-] S-671 O I VDC CHEVRON USA INC (8928/8882/8787/8787)
- [-] S-6206 T V ETH CHEVRON USA INC (2612/2641/2630/2670)
- [-] S-3221 R I VDC CHEVRON USA INC (83216/8424/19557/8976)
- [-] S-3221-1 W/VDC CHEVRON USA INC (12229/12229/12229/12231)
- [-] S-3222 R I VDC CHEVRON USA INC (70987/71112/72439/72438)
- [-] S-34051 W/VDC CHEVRON USA INC (2721/2721/2721/2722)
- [-] S-34101 R I VDC CHEVRON USA INC (6846/6839/7031/7031)
- [-] S-34251 W/VDC CHEVRON USA INC (5112/5112/5112/5112)
- [-] S-34361 R I VDC CHEVRON USA INC (8154/68078/9009/9001)
- [-] S-34841 T W/VDC CHEVRON USA INC (192/192/192/192)
- [-] S-34851 R I VDC CHEVRON USA INC (51762/6287/6381/163829)
- [-] S-37021 T W/VDC CHEVRON USA INC (12384/12384/12384/12344)
- [-] S-37031 R I VDC CHEVRON USA INC (8818/49749/90869/90668)
- [-] S-38891 W/VDC CHEVRON USA INC (81188/2182/2182/2182)
- [-] S-38841 W I VDC CHEVRON USA INC (6426/6426/6426/6428)
- [-] S-4255-1 S V VDC CHEVRON USA INC (6426/6426/6426/6428)
- [-] S-45811 R I VDC CHEVRON USA INC (4020/4112/4021/4024)
- [-] S-45571 W/VDC CHEVRON USA INC (838/938/938/938)
- [-] S-4581 R I VDC CHEVRON USA INC (2590/4042/41352/41348)
- [-] S-45931 W/VDC CHEVRON USA INC (11360/11360/11360/11360)
- [-] S-4591 R I VDC CHEVRON USA INC (2362/2327/22512/2350)
- [-] S-45831 W/VDC CHEVRON USA INC (156/156/157/157)
- [-] S-45841 W/VDC CHEVRON USA INC (1480/1480/1488/1488)
- [-] S-4595-1 R I VDC CHEVRON USA INC (2608/2683/27887/27882)
- [-] S-50001 W/VDC CHEVRON USA INC (203/203/203/203)
- [-] S-5001-1 R V VDC CHEVRON USA INC (2605/26780/27684/27678)

PERMIT TO OPERATE



LEON M HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 881-3682

Number: 4008322

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 4, T29S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-2-4

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Bay

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-2-4, including the following equipment:

- 45 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- 1 Water-cooled heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- 1 _____ vapor condensor(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

Permit Number: 4001 12

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 99%.
2. Final vapor condensor shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
6. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT
TO
OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 260
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008327

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 31, T28S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-1-31

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Bay

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-1-31, including the following equipment:

- 3 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
heat exchanger(s),
- 1 ___ gas/liquid separator(s),
- 1 ___ gas compressor(s),
- 1 ___ vapor condensor(s), ___ with mist eliminator,
- 1 ___ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

Permit Number: 4008327

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 99%.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
6. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).



San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0621-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 31, TOWNSHIP 28S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1177 lbs.	1190 lbs.	1204 lbs.	1204 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0068-1

David L. Crow, APCO

Seyed Saadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0037-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Central Kern County Oilfields
Section 9, T29S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
88349 lbs.	89330 lbs.	90312 lbs.	90312 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

Consumed by EBCs
S-616-1 + S-616-6
project 970236
MWA
5/29/97

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0065-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

Location of Reduction: **Central Kern County Oilfields**
Section 3, T29S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
160962 lbs.	162751 lbs.	164539 lbs.	164539 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

Consumed by ERCS

S-618-1 & S-618-6

MWA

5/29/97

David L. Crow, APCO

Seyed Saadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0066-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Central Kern County Oilfields
Section 5, T29S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
119814 lbs.	121146 lbs.	122477 lbs.	122477 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

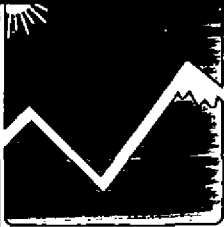
Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERCS
S-619-1 & S-619-6
project 970236
MWA
5/29/97*

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0067-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Central Kern County Oilfields
Section 4, T29S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
85928 lbs.	86882 lbs.	87837 lbs.	87837 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERCs
S-620-1 + S-620-2
project 970236
MWA
5/29/97*

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0068-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Central Kern County Oilfields
Section 31, T28S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
38728 lbs.	39158 lbs.	39589 lbs.	39589 lbs.

Conditions Attached

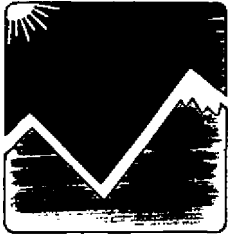
Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Unit
 Other: Steam drive well casing collection systems installed prior to April 25, 1983

Consumed by ERCS
S-621-1 + S-621-6
project 970236
MWA
5/29/97

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
 Unified Air Pollution Control District
 Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0064-1

Issued To: Chevron U.S.A. Inc.
 January 24, 1994

Location of Reduction: Central Kern County Oilfields
 Section 32, T28S/R28E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
20579 lbs.	20808 lbs.	21037 lbs.	21037 lbs.

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Unit
- Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERCs
 S-617-1 & S-617-6
 project 970236
 MWA
 5/29/97*

David L. Crow, APCO

Seyed Sadredin
 Director of Permit Services

PROOF OF PUBLICATION

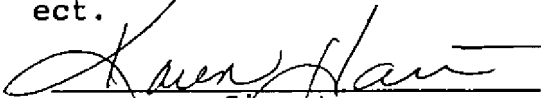
State of California ~ss
County of Kern ~

I am a citizen of the United States and a resident of the County aforesaid: I am over the age of 18 years, and not a party to or interested in the above entitled matter. I am the assistant principal clerk of the printer of The Bakersfield Californian, a newspaper of general circulation, printed and published daily in the City of Bakersfield, county of Kern, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Kern, State of California, under date of February 5, 1952, Case Number 57610; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

12/27

all in the year 1993

I certify (or declare) under penalty of perjury that the foregoing is true and correct.


Signature

Dated at Bakersfield, Ca
December 27, 1993.

Karen Harris

Proof of Publication of:

notice of final action

20032

NOTICE OF
FINAL ACTION
ON PROPOSED
STATIONARY SOURCE
Pursuant to Rule 2201 and 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a final decision to approve emission reduction credits for Chevron U.S.A., Inc. not to exceed 1293 tons/year of VOC (volatile organic compounds) resulting from installation of well vent casing collection systems installed prior to April 25, 1993 in the western and central oil field stationary sources in Kern County. The District's finalized analysis of project 92953, public comments, and copies of Emission Reduction Credit Certificates are available at the Region office with engineer Mr. Robert Rinaldi, located at 2700 "M" Street, Suite 273, Bakersfield, Ca. 93301, (805) 861-3682. Dec. 27, 1993 (20032)

RECEIVED

DEC 28 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

PROOF OF PUBLICATION

BAKERSFIELD CALIFORNIAN

NOTICE OF FINAL ACTION ON PROPOSED STATIONARY SOURCE

Pursuant to Rule 2201 and 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a final decision to approve emission reduction credits for Chevron U.S.A., Inc. not to exceed 1292 tons/year of VOC (volatile organic compounds) resulting from for installation of well vent casing collection systems installed prior to April 25, 1983 in the western and central oil field stationary sources in Kern County.

The District's finalized analysis of project 920255, public comments, and copies of Emission Reduction Credit Certificates are available at the Region office with engineer Mr. Robert Rinaldi, located at 2700 "M" Street, Suite 275, Bakersfield, Ca. 93301, (805) 861-3682.

Account #: 1SAN51



San Joaquin Valley
Unified Air Pollution Control District

FAX TRANSMITTAL

DATE: 12/20/93
 TO: BAKERSFIELD CALIFORNIA
 ATTN: LEGAL ADVERTISEMENT SECTION
 FROM: ANGE DESANTILAGO/CENTRAL REGION
 SUBJECT: CHEVRON USA
 PROJECT NO: 920255

RECEIVED

DEC 30 1993

SAN JOAQUIN VALLEY
 APCD—SOUTHERN REGION

Number of Pages (including this one) 2

INSTRUCTIONS:

- Please publish by: 12/23/93
 *****FOR ONE DAY ONLY*****
- Please send the Proof and Published Notice to:

ATTN: Robert Rinaldi
 SOVUAPCD/SOUTHERN REGION
 2700 M STREET SUITE 275
 BAKERSFIELD CA 93301
 CONTACT NUMBER: (805) 861-3682
 BILLING NUMBER: (209) 497-1000

David L. Crow
 Executive Director/Air Pollution Control Officer
 1800 Columbia Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • Fax (209) 497-9527

Northern Region
 4130 Ardenway Avenue, Suite 120 • Modesto, CA 95366
 (209) 545-7000 • Fax (209) 545-9510

Central Region
 1800 Columbia Street, Suite 200 • Fresno, CA 93721
 (209) 497-1000 • Fax (209) 497-9527

Southern Region
 2700 M Street, Suite 275 • Bakersfield, CA 93301
 (805) 861-3682 • Fax (805) 861-3680

TRANSMISSION REPORT

THIS DOCUMENT WAS CONFIRMED
 (REDUCED SAMPLE ABOVE - SEE DETAILS BELOW)

**** COUNT ****

TOTAL PAGES SCANNED : 2
 TOTAL PAGES CONFIRMED : 2

*** SEND ***

No.	REMOTE STATION	START TIME	DURATION	#PAGES	MODE	RESULTS
1	BAKERSFIELD CAL	12-21-93 3:30PM	1'02"	2/ 2		COMPLETED 9600

TOTAL 0:01'02" 2

NOTE:

No. : OPERATION NUMBER 48 : 4800BPS SELECTED EC : ERROR CORRECT G2 : G2 COMMUNICATION
 PD : POLLED BY REMOTE SF : STORE & FORWARD RI : RELAY INITIATE RS : RELAY STATION
 MB : SEND TO MAILBOX PG : POLLING A REMOTE MP : MULTI-POLLING RM : RECEIVE TO MEMORY

ERC ETHANE/ACETONE SEGREGATION REVIEW

Facility Name: Chevron USA
Mailing Address: P.O. Box 1392
 Bakersfield, Ca 93302

Contact Name: Martin Lundy
Telephone: (805) 633-4458

Engineer: Melissa W. Adams
Date: 03/19/97

Lead Engineer: Allan Phillips *AP SUPR ARE*
Date: 3-20-97

Project #: 970236

ERC #'s:	<u>Ethane</u>	<u>VOC</u>	<u>Split from</u>
	<u>New ERC</u>	<u>New ERC</u>	<u>Old ERC</u>
	S-616-6	S-616-1	S-37-1
	S-617-6	S-617-1	S-64-1
	S-618-6	S-618-1	S-65-1
	S-619-6	S-619-1	S-66-1
	S-620-6	S-620-1	S-67-1
S-621-6	S-621-1	S-68-1	

I. PROPOSAL:

Pursuant to the May 16, 1996 revision to Rule 1020, section 3.53, the definition of a Volatile Organic Compound (VOC) has been changed to exempt ethane and acetone from the definition. Consequently, VOC ERC certificates must be split into an ethane certificate, an acetone certificate and a new VOC certificate in order to be used consistently with Rule 2201, Section 4.2.5.3 which prohibits the use of exempt compounds as offsets for VOCs.

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0037-1	88349	89330	990312	90312
Certificate	S-0064-1	20579	20808	21037	21037
Certificate	S-0065-1	160962	162751	164539	164539
Certificate	S-0066-1	119814	121146	122477	122477
Certificate	S-0067-1	85928	86882	87837	87837
Certificate	S-0068-1	38728	39158	39589	39589

The above certificates have been adjusted using data from the original application and VOC species profiles¹ as follows (the profile shows no acetone; therefore, only ethane was split out):

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0037-1	88349	89330	90312	90312
Ethane Certificate	S-0616-6	2686	2716	2745	2745
VOC Certificate	S-0616-1	85663	86614	87567	87567
Certificate	S-0064-1	20579	20808	21037	21037
Ethane Certificate	S-0617-6	626	633	640	640
VOC Certificate	S-0617-1	19953	20175	20397	20397
Certificate	S-0065-1	160962	162751	164539	164539
Ethane Certificate	S-0618-6	4893	4948	5002	5002
VOC Certificate	S-0618-1	156069	157803	159537	159537
Certificate	S-0066-1	119814	121146	122477	122477
Ethane Certificate	S-0619-6	3642	3683	3723	3723
VOC Certificate	S-0619-1	116172	117463	118754	118754
Certificate	S-0067-1	85928	86882	87837	87837
Ethane Certificate	S-0620-6	2612	2641	2670	2670
VOC Certificate	S-0620-1	83316	84241	85167	85167
Certificate	S-0068-1	38728	39158	39589	39589
Ethane Certificate	S-0621-6	1177	1190	1204	1204
VOC Certificate	S-0621-1	37551	37968	38385	38385

II. APPLICABLE RULES:

Rule 1020: Definitions (Amended 11/13/96)

Rule 2201: New and Modified Stationary Source Review Rule (6/15/95)

Rule 2301: Emission Reduction Credit Banking Rule (Amended 12/17/92)

¹ EPA. January 1990. Air Emission Species Manual. Vol. 1; Volatile Organic Compound Species Profiles. Second Ed. EPA-450/2-90-001a. Research Triangle Park, North Carolina.

III. PROJECT LOCATION:

Location where offsets were generated:
 Sections 3,4,5,9,32, Township 29S, Range 28E
 Section 31, Township 28S, Range 28E
 S-1127, Heavy Oil Central
 Steam drive well casing collection systems installed prior to April 25, 1983.

IV. Engineering Review:

The ERC's were originally issued for steam drive well casing collection systems installed prior to April 25, 1983(ERC project 920255). The segregation of ethane from the original VOC certificates was based on VOC species profiles. See Appendix A for copy of applicable VOC speciation profiles. Based on this data and calculations, the new certificates for VOCs and the certificates for ethane will be issued as calculated below.

V. CALCULATIONS of EMISSIONS:

Assumptions:

Using profile codes: 532

wt. fraction Ethane = 0.0190

wt. fraction Methane = 0.3750

Total of all species (0-1) = 1.0000

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0037-1	88349	89330	90312	90312
Certificate	S-0064-1	20579	20808	21037	21037
Certificate	S-0065-1	160962	162751	164539	164539
Certificate	S-0066-1	119814	121146	122477	122477
Certificate	S-0067-1	85928	86882	87837	87837
Certificate	S-0068-1	38728	39158	39589	39589

Example for ERC S-0037-1:

Ethane 1st Qtr Credits = (88349 lbs original ERC certificate for 1st Qtr)x(0.0190 wt fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=2686 lb/1st Qtr.
ethane credits

Ethane 2nd Qtr Credits = (89330 lbs original ERC certificate for 2nd Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=2716 lb/2nd Qtr.
ethane credits

Ethane 3rd Qtr Credits = (90312 lbs original ERC certificate for 3rd Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=2745 lb/3rd Qtr.
ethane credits

Ethane 4th Qtr Credits = (90312 lbs original ERC certificate for 4th Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=2745 lb/4th Qtr.
ethane credits

New 1st Qtr VOC Credits = (88349 lb/1st Qtr Existing VOC credits) - (2686 lb/1st Qtr. ethane Credits) = **85663 lb/1st Qtr. VOC credits**
New 2nd Qtr VOC Credits = (89330 lb/2nd Qtr Existing VOC credits) - (2716 lb/2nd Qtr ethane Credits) = **86614 lb/2nd Qtr. VOC credits**
New 3rd Qtr VOC Credits = (90312 lb/3rd Qtr. Existing VOC credits) - (2745 lb/3rd Qtr ethane Credits) = **87567 lb/3rd Qtr. VOC credits**
New 4th Qtr VOC Credits = (90312 lb/4th Qtr. Existing VOC credits) - (2745 lb/4th Qtr ethane Credits) = **87567 lb/4th Qtr. VOC credits**

VI. SUMMARY:

Rule 1020 - Definitions

Pursuant to the May 16, 1996 revision to the rule, ethane is no longer considered to be a VOC per Section 3.53. The purpose of this analysis is to separate the current certificate into an ethane ERC certificate and a new VOC certificate to be consistent with the definition of VOC in this Rule.

Rule 2301 - Emission Reduction Credit (ERC) Banking

The ERC's associated with certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, and S-0068-1, were established pursuant to the District's Banking Rule 2301. They have satisfied the public noticing requirements of New Source Review (NSR), and are currently included in the District's Banking Register. This project is administrative, since all noticing requirements were previously satisfied upon initial issuance; therefore, public noticing, pursuant to Rule 2301, is not required for this project. Pursuant to District policy, the current holder of the ERC will be allowed 30 days for comments.

The emission credits associated with certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, and S-0068-1, will be administratively transferred to certificates S-0616-1, 6; S-0617-1, 6; S-0618-1, 6; S-0619-1, 6; S-0620-1, 6; and S-0621-1, 6 in accordance with the requirements of Rule 2201, Section 4.2.5.3, Rule 2301, Section 7.0 and pursuant to District policy NSR/ERC 29. Upon cancellation of the original ERC documents, ERC certificate #'s S-0616-1, 6; S-0617-1, 6; S-0618-1, 6; S-0619-1, 6; S-0620-1, 6; and S-0621-1, 6 will be issued to Chevron USA.

IX. RECOMMENDATION:

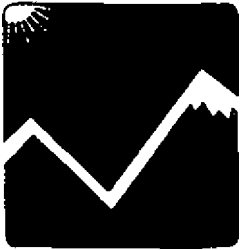
Cancel ERC certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, and S-0068-1 and issue ERC certificates S-0616-1, 6; S-0617-1, 6; S-0618-1, 6; S-0619-1, 6; S-0620-1, 6; and S-0621-1, 6 to Chevron USA, Heavy Oil Central Stationary Source, S-1127 in the following quarterly amounts:

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0037-1	88349	89330	90312	90312
Ethane Certificate	S-0616-6	2686	2716	2745	2745
VOC Certificate	S-0616-1	85663	86614	87567	87567
Certificate	S-0064-1	20579	20808	21037	21037
Ethane Certificate	S-0617-6	626	633	640	640
VOC Certificate	S-0617-1	19953	20175	20397	20397
Certificate	S-0065-1	160962	162751	164539	164539
Ethane Certificate	S-0618-6	4893	4948	5002	5002
VOC Certificate	S-0618-1	156069	157803	159537	159537
Certificate	S-0066-1	119814	121146	122477	122477
Ethane Certificate	S-0619-6	3642	3683	3723	3723
VOC Certificate	S-0619-1	116172	117463	118754	118754
Certificate	S-0067-1	85928	86882	87837	87837
Ethane Certificate	S-0620-6	2612	2641	2670	2670
VOC Certificate	S-0620-1	83316	84241	85167	85167
Certificate	S-0068-1	38728	39158	39589	39589
Ethane Certificate	S-0621-6	1177	1190	1204	1204
VOC Certificate	S-0621-1	37551	37968	38385	38385

X. BILLING INFORMATION:

This banking action is an administrative change necessitated by the change to Rule 1020, therefore, no application filing fee will be required. This banking action does not require public noticing pursuant to Rule 2301; therefore, there are no fees associated with this project.

Appendix A



San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0616-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 9, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
85663 lbs.	86614 lbs.	87567 lbs.	87567 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

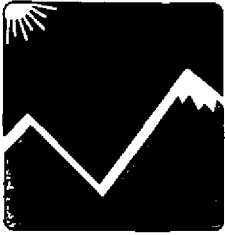
Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0037-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0616-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 9, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2686 lbs.	2716 lbs.	2745 lbs.	2745 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0037-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0617-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 32, TOWNSHIP 28S, RANGE 28E
HEAVY OIL CENTRAL

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
19953 lbs.	20175 lbs.	20397 lbs.	20397 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

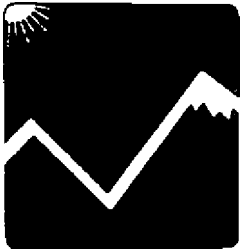
Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0064-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0617-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 32, TOWNSHIP 28S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
626 lbs.	633 lbs.	640 lbs.	640 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0064-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0618-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 3, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

*Partial transfer
of ERC from S-0618-1
to S-1431-1 and S-1432-1
JL 6/23/2006*

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
156069 lbs.	157803 lbs.	159537 lbs.	159537 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0065-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0618-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 3, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
4893 lbs.	4948 lbs.	5002 lbs.	5002 lbs.

Conditions Attached

Method Of Reduction

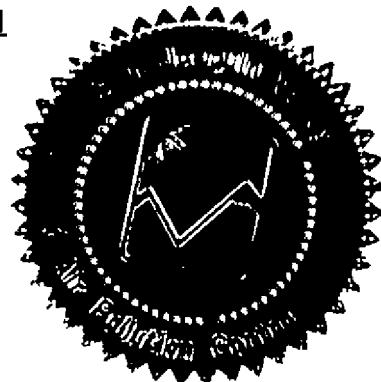
Shutdown of Entire Stationary Source

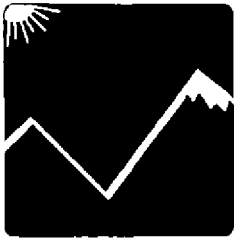
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0065-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0619-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 5, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
116172 lbs.	117463 lbs.	118754 lbs.	118754 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0066-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0619-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 5, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
3642 lbs.	3683 lbs.	3723 lbs.	3723 lbs.

Conditions Attached

Method Of Reduction

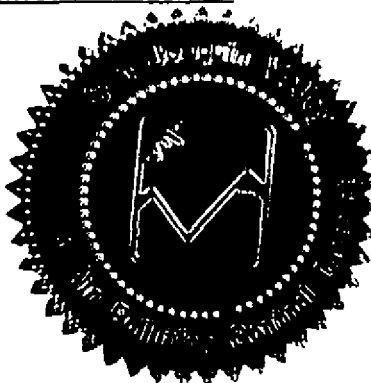
Shutdown of Entire Stationary Source

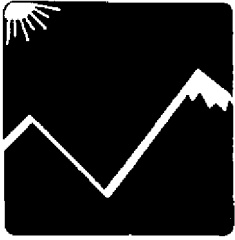
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0066-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0620-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 4, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
83316 lbs.	84241 lbs.	85167 lbs.	85167 lbs

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0067-1

David L. Crow, APCO


Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0620-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 4, TOWNSHIP 29S, RANGE 28E
HEAVY OIL CENTRAL

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2612 lbs.	2641 lbs.	2670 lbs.	2670 lbs

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

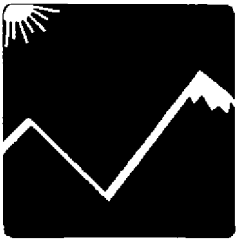
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0067-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0621-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 31, TOWNSHIP 28S, RANGE 28E
HEAVY OIL CENTRAL

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
37551 lbs.	37968 lbs.	38385 lbs.	38385 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0068-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



EPA Comments
Chevron U.S.A.
Emission Reduction Credits
Project #'s: S-0037-1 through '0038-1
and S-0056-1 through '0068-1

1. Because the reductions are required by RACT rules, they are clearly not surplus. As required by Congress in §173 (c)(2) of the Clean Air Act Amendment, "Emission reductions otherwise required by this chapter shall not be credible as emissions reductions for purposes of any such offset requirement." This includes the requirements of §172 (c)(1), Nonattainment plan provisions, and §182 (b)(2), Reasonably available control technology. For VOC emissions, it is important to note that retained reduction credits must be used in accordance with the current requirements in the area, not the requirements in effect at the time the credits were established.

A memorandum (dated July 21, 1993 and signed by the Director of the Office of Air Quality Planning and Standards), which has been sent to the District under a separate cover, confirms that reductions must be discounted to reflect reasonably available control technology requirements applicable to the source or reasonably foreseeable at the time of use of the emissions reductions as offsets. These reduction must be discounted to reflect the level of control currently required by the Clean Air Act Amendments. Since District Rule 4401.5.3 requires a 99% control efficiency of VOC emissions, none of these credits are surplus.

2. We appreciate the District's memo to the planning department regarding the fate of ERCs created prior to 1990. However, you have still not demonstrated that these credits have either been accounted for in the 1987 inventory or added to the 1991 AQAP. Simply requesting that the planners "please add the emissions to the 1987 inventory, or account for these emissions in revisions to the 1991 AQAP and annual tracking of emissions reductions," does not constitute a demonstration that these reductions are surplus. Until the District demonstrates to the EPA that these reductions are included in the 1990 inventory as growth and are not necessary for use by the District in meeting RFP and milestone requirements, these credits can not be considered surplus.

3. The EPA is also concerned that the Cumulative Net Change tables should reflect any emission reduction credit banking. As discussed in an August 8, 1993 phone conversation between Jennifer Fox, EPA, and Robert Rinaldi, SJVUAPCD, the District needs to add any ERCs that are formally banked to the net cumulative emissions change tables. The District determines what is surplus by looking at all emissions increases and decreases in a contemporaneous period. If the source relies on a decrease for the purposes of internal netting, then this reduction can not be banked. If the District does decide to act on these credits, EPA would like to see Chevron's amended Cumulative Net Change tables which show that banked VOC credits are not included as decreases.

TO: T. Goff

September 12, 1994

FROM: Robert Rinaldi

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT FOR
CHEVRON PROJECT 920255 - ARB COMMENT #1

Description of Chevron ERC Project 920255:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

ARB COMMENT #1 - Not recognized in writing as available for banking.

- Brief description of ERC project:

See description above.

- Date application filed:

Original application submitted March 16, 1992, the District returned application and check March 23, 1992.

Present application re-filed November 16, 1992

- Date reduction occurred:

There were many permit units associated with this ERC project and were implemented at different times. However, all reductions occurred before April 25, 1983 (date first banking rule was adopted) and before August 27, 1984 (date District amended Rule 411.1 control efficiency from 93% to 99%).

- Banking rule and adoption/amendment date reductions were banked under:

Rule 230.1, adopted 9/19/91 and revised 3/11/92.

- Justification given in application review for determining reductions were recognized in writing by District.

The applicant received ATC's and PTO's before April 25, 1983 (date first banking rule was adopted) authorizing reductions, therefore reductions were recognized in writing.

Responses to ARB Comment #1
Chevron ERC Project 920255
September 12, 1994
Page 2

- Additional information in file emissions were recognized in writing by District.

Net cumulative change tables and computer tracking (AS400) printouts showing PTO's were issued for ATC's authorizing reductions.

- Date of preliminary decision to approve.

Preliminary decision to approve was published in the newspaper July 6, 1993.

- Date of ERC issuance.

Date written on issued ERC's is December 21, 1993.

September 1994

ARB's Comment:

Documentation does not indicate that the reductions are enforceable by PTO or ATC condition.

Response:

Confusion appears to be caused by preceding ATC's submitted by the applicant as support documents.

Statement of Facts:

- This project banked western and central stationary source pre-1988 reductions for providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time.
- ATC's and PTO's with binding conditions including 99% control efficiency were issued for these TEOR operations. However, the applicant provided ATC's for preceding modifications (eg. 4008302A instead of 4008302B, sample attached) authorizing vapor collection (not including incineration) at a lower control efficiency.
- The confusion appears to be caused by preceding ATC's submitted by the applicant as support documents. An example of a current PTO (S-1127-160-2, was AS400# 4008302B and list of all permits) is attached. This PTO was originally issued 6/3/82 (see attached AS400 record) with conditions requiring 99% control and incineration of well casing gas.
- If needed the correct ATC's and implemented PTO's can be retrieved from dead storage.

TO: T. Goff

September 12, 1994

FROM: Robert Rinaldi

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT FOR
CHEVRON PROJECT 920255 - ARB COMMENT #2

Description of Chevron ERC Project 920255:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

ARB COMMENT #2 - Adequate surplus test not performed.

- Brief description of ERC project:

See description above.

- Date application filed:

Original application submitted March 16, 1992, the District returned application and check March 23, 1992.

Present application re-filed November 16, 1992

- Date reduction occurred?

There were many permit units associated with this ERC project and were implemented at different times. However, all reductions occurred before April 25, 1983 (date first banking rule was adopted) and before August 27, 1984 (date District amended Rule 411.1 control efficiency from 93% to 99%).

- Was standard District surplus test performed (zeroed in table)?

Yes.

- If standard test was not performed what test was used in application review to determine the reductions were surplus?

Does not apply, standard surplus test was performed.

Responses to ARB Comment #2
Chevron ERC Project 920255
September 12, 1994
Page 2

- Date of preliminary decision to approve.

Preliminary decision to approve was published in the newspaper July 6, 1993.

- Date of ERC issuance.

Date written on issued ERC's is December 21, 1993.

TO: T. Goff

September 8, 1994

FROM: Robert Rinaldi

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT FOR
CHEVRON PROJECT 920255 - ARB COMMENT #3

Description of Chevron ERC Project 920255:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

ARB COMMENT #3 - Applications for ERC's not timely.

- Date application filed:

Original application submitted March 16, 1992, the District returned application and check March 23, 1992.

The present application was re-filed November 16, 1992

- Time frame provided in rule for filing application:

Rule 230.1 subsection IV.A.2.d, adopted September 19, 1991, established timeliness requirements of 180 days after the adoption date of the Rule. The date 180 days after September 19, 1991 is March 17, 1992. The original application and check was submitted March 16, 1992. Therefore the application is timely.

- Date reduction occurred:

There were many permit units associated with this ERC project and were implemented at different times. However, all reductions occurred before April 25, 1983 (date first banking rule was adopted) and before August 27, 1984 (date District amended Rule 411.1 steam drive well control efficiency from 93% to 99%).

- Time elapsed from date reduction occurred to date application filed.

About 9 years elapsed time.

Responses to ARB Comment #3
Chevron ERC Project 920255
September 8, 1994
Page 2

- Date of preliminary decision to approve.

Preliminary decision to approve was published in the newspaper July 6, 1993.

- Date of ERC issuance.

Date written on issued ERC's is December 21, 1993.

TO: T. Goff

September 8, 1994

FROM: Robert Rinaldi

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT FOR
CHEVRON PROJECT 920255 - ARB COMMENT #5

Description of Chevron ERC Project 920255:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

ARB COMMENT #5 - Banking of pre-'83 reductions is being allowed.

- Date application filed.

Original application submitted March 16, 1992, the District returned application and check March 23, 1992.

Present application re-filed November 16, 1992

- Description of how reduction was made:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time and before a banking rule was adopted.

Rule 210.1 subsection II.B, adopted September 19, 1991 and revised March 11, 1992 defines actual emission reductions as real, enforceable, quantifiable, permanent, and achieved before reductions are required. The evaluation addresses real enforceable, quantifiable, permanent and reductions occurred before August 27, 1984 (date District amended Rule 411.1 control efficiency from 93% to 99%).

Rule 230.1 subsection IV.A.2, adopted September 19, 1991 and revised March 11, 1992 allows for banking of pre-banking rule actual emission reductions that were formally recognized. Reductions occurred before KCAPCD's first banking rule was adopted on April 25, 1983. The applicant received ATC's authorizing reductions, therefore reductions were recognized in writing.

Responses to ARB Comment #5
Chevron ERC Project 920255
September 8, 1994
Page 2

- Date reduction occurred:

There were many permit units associated with this ERC project and were implemented at different times. However, all reductions occurred before April 25, 1983 (date first banking rule was adopted) and before August 27, 1984 (date District amended Rule 411.1 control efficiency from 93% to 99%).

- Date of preliminary decision to approve.

Preliminary decision to approve published in newspaper July 6, 1993.

- Date of ERC issuance.

Date written on issued ERC's is December 21, 1993.

TO:Robert Rinaldi

SEPT. 6, 1994

FROM:T. GOFF

RE:UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT

Please prepare your responses to ARB's comments in the following format so that they may be easily merged into a uniform response. Begin with a succinct description of the emission reduction (and the banking project if different). State the facts clearly and directly. Do not add extra explanation or discussion in the response. If you just must, these can be added in additional paragraph(s) following the factual response.

comments apply to Chevron 920255

ARB COMMENT #3 - Applications for ERC's not timely.

Date application filed.

Timeframe provided in rule for filing application (cite rule number, section, and date of rule adoption/amendment.

Date reduction occurred.

Time elapsed from date reduction occurred to date application filed.

Date of preliminary decision to approve.

Date of ERC issuance.

ARB COMMENT #5 - Banking of pre-'83 reductions is being allowed.

Date application filed.

Description of how reduction was made. (If part of Rule 425 compliance plan, so state but cite language in Rule 210.1 and 425 allowing NSR credit for such reductions.)

Date reduction occurred.

Date of preliminary decision to approve.

Date of ERC issuance.

TO: RCR

SEPT. 12, 1994

FROM: T. GOFF/LE

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT

Please prepare your responses to ARB's comments in the following format so that they may be easily merged into a uniform response. State the facts clearly and directly. Do not add extra explanation or discussion in the response. If you just must, these can be added in additional paragraph(s) following the factual response.

PLEASE TURN INTO TEG NO LATTER THAN 9/13/94!!!!

Applies to: ARCO 920289
Chevron 920255

ARB COMMENT #1 - Not recognized in writing as available for banking.

Brief description of ERC project.
Date application filed.
Date reduction occurred.
Banking rule and adoption/amendment date reductions were banked under.
Justification given in application review for determining reductions were recognized in writing by District.
Additional information in file emissions were recognized in writing by District.
Date of preliminary decision to approve
Date of ERC issuance

ARB COMMENT #2 - Adequate surplus test not preformed.

Brief description of ERC project.
Date application filed.
Date reduction occurred.
Was standard District surplus test preformed. (*Zeroed in table*)
If standard test was not preformed what test was used in application review to determine the reductions were surplus.
Date of preliminary decision to approve
Date of ERC issuance

TABLE II
VOC SPECIES PROFILE

531 OIL & GAS EXTRACTION - COMPRESSOR SEALS

PROFILE NUMBER	SPECIES	WEIGHT FRACTION
531	BENZENE	.0070
	ETHANE	.0080
	ISOBUTANE	.0280
	ISOMERS OF HEPTANE	.0150
	ISOMERS OF HEXANE	.0150
	ISOMERS OF OCTANE	.0010
	ISOMERS OF PENTANE	.0330
	METHANE	.7300
	N-BUTANE	.0610
	N-HEPTANE	.0060
	N-HEXANE	.0140
	N-PENTANE	.0300
	PROPANE	.0480
	TOLUENE	.0040
*TOTAL	531	1.0000

532 OIL & GAS EXTRACTION - WELL HEADS & CELLARS/OIL&WATER SEPARATOR

PROFILE NUMBER	SPECIES	WEIGHT FRACTION
532	BENZENE	.0160
	ETHANE	.0190 ←
	ISOBUTANE	.0640
	ISOMERS OF HEPTANE	.0340
	ISOMERS OF HEXANE	.0350
	ISOMERS OF OCTANE	.0030
	ISOMERS OF PENTANE	.0770
	METHANE	.3750 ←
	N-BUTANE	.1420
	N-HEPTANE	.0140
	N-HEXANE	.0320
	N-PENTANE	.0690
	PROPANE	.1100
	TOLUENE	.0100
*TOTAL	532	1.0000



San Joaquin Valley Unified Air Pollution Control District

June 11, 1997

Mr. W.A. Brommelsiek
Manager, ESF&H
Chevron USA
P.O. Box 1392
Bakersfield, CA 93302

Re: VOC and Ethane Certificates from VOC Certificate

Dear Mr. Brommelsiek:

Enclosed please find Emission Reduction Credit (ERC) Certificates S-0616-1, S-0617-1, S-0618-1, S-0619-1, S-0620-1, and S-0621-1 (for VOC) and S-0616-6, S-0617-6, S-0618-6, S-0619-6, S-0620-6, and S-0621-6 (for ethane) from the segregation of ethane from the VOC portion of VOC certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, and S-0068-1.

Thank you for returning ERC Certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, and S-0068-1 to the District. Should you have any questions, please telephone Ms. Melissa W. Adams of the Permit Services Section at (805) 862-5200.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:MWA/bja
Enclosure

c: Thomas E. Goff, Permit Services Manager

David L. Crow

Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • Fax (209) 233-2057

Old project
920255
5-1127

Northern Region

4230 Kiernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 862-5200 • Fax (805) 862-5201

NORTHERN REGION

CENTRAL REGION

ETHANE VOC SPLIT CHECK LIST

SOUTHERN REGION

PROJECT#: 970236 MODEM FILE NAME: CHE70236.FBC

REQST. COMPL.

- ERC TRANSFER OF PREVIOUSLY BANKED CREDITS
- ERC PRELIMINARY PUBLIC NOTICE
- ERC FINAL PUBLIC NOTICE
- NSR/CEQA PRELIMINARY PUBLIC NOTICE
- NSR/CEQA FINAL PUBLIC NOTICE

ENCLOSED DOCUMENTS REQUIRE:

- Enter Correct Date, Print All Documents from Modemed File and Obtain Directors Signature
- Send **PRELIMINARY** Notice Letters to CARB, EPA and Applicant; Including the Following Attachments:
 - Application Evaluation
 - Other _____
- Send **PRELIMINARY** Public Notice for Publication to Bakersfield Californian
- Send Signed Copies of Final Notice Letters to Regional Office Attn:
- Director's Signature and District Seal Embossed on ERC Certificates
- Director's Signature on Cover Letter and Mail Cover Letter & ERC Certificates by Certified Mail to:
 - Applicant: Mr. W. A. Brommelsiek, Manager ESF&H, Chevron USA, P.O. Box 1392, Bakersfield, CA 93302
 - Applicant and Additional Addressees (see cover letters)
 - Other _____
- Send Copies of Signed and Seal Embossed ERC Certificates and Signed cover letter to Regional Office Attn: Melissa W. Adams
- Other Special Instructions (please specify)

Date Completed _____/By_____

Date Added to "Notice" Directory: June 9, 1997

Upon Completion FAX to Regional Office Attn: Melissa W. Adams



Chevron U.S.A. Production Company
P.O. Box 1392, Bakersfield, CA 93302

April 18, 1997

**ERC Ethane/Acetone Split
from VOC Certificates**

Mr. Thomas Goff
Permit Services Manager - Southern Region

San Joaquin Valley Unified APCD
Southern Region
2700 "M" Street, Suite 275
Bakersfield, CA 93301

RECEIVED
APR 17 1997
SAN JOAQUIN VALLEY UNIFIED
APCD-SOUTHERN REGION

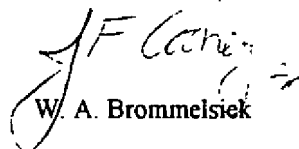
Dear Mr. Goff:

We have reviewed the proposed adjustments to Chevron's banked VOC credits in the Southern Region. We agree with all but one of the adjustment percentages. As requested by your letters dated 3-21-97, we are returning the original VOC certificates to validate the new certificates.

The one adjustment that appears to be too high is the adjustment to certificate # 2041036/501. Based on the VOC species profile #719 the District has determined that ethane constitutes 64% of the VOC certificate. We are in the process of locating old source test files which should provide more specific VOC emissions information for the associated Lost Hills I.C. Engines. We will forward this information to the District as soon as it is located.

If you have any questions regarding this information please call John Cooney at (805) 633-4453.

Sincerely,


W. A. Brommelsiek

Attachments



San Joaquin Valley Unified Air Pollution Control District

March 21, 1997

Mr. W. A. Brommelsiek
Manager of ESF&H
Chevron U.S.A.
P O Box 1392
Bakersfield, CA 93302

Re: ERC Ethane/Acetone Segregation from VOC Certificates

Dear Mr. Brommelsiek:

On May 16, 1996, the definition of volatile organic compound was amended to exclude acetone and ethane. Therefore, prior to use of previously banked VOC credits, the amount must be separated into the newly defined VOC's and the excluded acetone and ethane portions. Acetone and ethane may no longer be used to offset VOC emission increases.

The VOC fraction of the amounts banked in certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, S-0068-1, has been determined using Air Resources Board published VOC speciation profiles. Based on this review of ERC certificates S-0037-1, S-0064-1, S-0065-1, S-0066-1, S-0067-1, S-0068-1, ethane constitutes 3.04% of the previously banked amount.

Prior to finalizing the segregation of exempt compounds, Chevron U.S.A., has 30 days to review and comment on the attached analysis documenting the amount of ethane and non-exempt VOC compounds.

At the end of the review and comment period, please return the original VOC certificate(s) to validate the new certificates.

David L. Crow

Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Klerman Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • FAX (209) 545-8652

Central Region

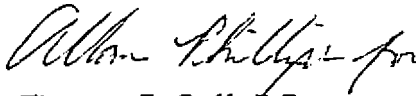
1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • FAX (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301-2370
(805) 862-5200 • FAX (805) 862-5201

Thank you for your cooperation in this matter. Should you have any questions, please telephone Ms.Melissa W. Adams of the Permit Services Section at (805) 862-5200.

Sincerely,
Seyed Sadredin
District Manager of Permit Services

A handwritten signature in cursive script, appearing to read "Thomas E. Goff".

Thomas E. Goff, P.E.
Permit Services Manager - Southern Region

mwa
enclosures

NOTICE OF PUBLICATION

Proof of Publication of:

State of California ~ss
County of Kern ~

17462

public comment

I am a citizen of the United States and a resident of the County aforesaid: I am over the age of 18 years, and not a party to or interested in the above entitled matter. I am the assistant principal clerk of the printer of The Bakersfield Californian, a newspaper of general circulation, printed and published daily in the City of Bakersfield, county of Kern, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Kern, State of California, under date of February 5, 1952, Case Number 57610; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

7/6

all in the year 1993

I certify (or declare) under penalty of perjury that the foregoing is true and correct.


Signature

Dated at Bakersfield, Ca
JULY 6, 1993.

Michelle McPhetridge

SAN JOAQUIN VALLEY
UNIFIED AIR POLLUTION
CONTROL DISTRICT

REQUEST FOR PUBLIC
COMMENT ON PROPOSED
STATIONARY SOURCE
EMISSION REDUCTION
CREDITS (ERC)

Pursuant to Rule 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a preliminary decision to approve emission reduction credits not to exceed 713,958 lbsm qtr of VOC (volatile organic compounds) resulting from installation of well vent casing collection systems installed prior to April 23, 1993 in the western and central oil field stationary sources in Kern County.

Public comments regarding the expected air quality impact of this project will be received by the District for a period of thirty (30) days after publication of this notice and will receive due consideration before final action is taken. District contact person for project 920255 is Mr. Robert Rinaldi of Permit Services.

The application for emission reduction credits, support documents and the District's air quality impact analysis for project 4008-921117 are available for inspection at the District's office located at 2700 "M" Street, Suite 275, Bakersfield, CA 93301, (805) 861-3882.

July 6, 1993 (#17462)

RECEIVED

JUL 7 - 1993

SAN JOAQUIN VALLEY UNIFIED
APCD--SOUTHERN REGION

Ac Number 17462
Class 520
GB/PO LGL

The BAKERSFIELD CALIFORNIAN
P.O. BOX 440
BAKERSFIELD, CA 93302

Start 7/06 Stop 7/06 Run times 1 Run days/dates 6

46 Billing lines 3.99 Inches Solicitor I.D.: 10CHARLETTE

Total cost 55.68 Rate L1 Account 1SAN51

First Line of Ad: SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION

Billing address:

Mailing address:

SAN JOAQUIN VALLEY UNIFIED
STE 275

2700 m street
BAKERSFIELD

CA 93301

RECEIVED

JUL 7 - 1993

SAN JOAQUIN VALLEY UNIFIED
APCD--SOUTHERN REGION

Ad Number 17462
Class 520
GB/PO LGL

The BAKERSFIELD CALIFORNIAN
P.O. BOX 440
BAKERSFIELD, CA 93302

Start 7/06 Stop 7/06 Run times 1 Run days/dates 6

48 Billing lines 3.99 Inches Solicitor I.D.: IOCHARLETTE

Total cost 55.68 Rate L1 Account 1SAN51

First Line of Ad: SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION

Billing address:

Mailing address:

SAN JOAQUIN VALLEY UNIFIED
STE 275
2700 m street
BAKERSFIELD

CA. 93301

Ad Number 17462
Class 520
CB/PO LGL

The BAKERSFIELD CALIFORNIAN
P.O. BOX 440
BAKERSFIELD, CA 93302

Start 7/06 Stop 7/06 Run times 1 Run days/dates 6

48 Billing lines 3.99 Inches Solicitor I.D.: 10CHARLETTE

Total cost 55.68 Rate L1 Account ISAN51

First Line of Ad: SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION

Billing address:

Mailing address:

SAN JOAQUIN VALLEY UNIFIED
STE 275

2700 M Street
BAKERSFIELD

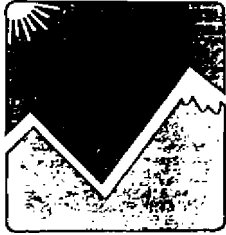
CA 93301

**REQUEST FOR PUBLIC COMMENT ON PROPOSED
STATIONARY SOURCE EMISSION REDUCTION CREDITS (ERC)**

Pursuant to Rule 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a preliminary decision to approve emission reduction credits not to exceed 713,958 lbm/qtr of VOC (volatile organic compounds) resulting from installation of well vent casing collection systems installed prior to April 25, 1983 in the western and central oil field stationary sources in Kern County.

Public comments regarding the expected air quality impact of this project will be received by the District for a period of thirty (30) days after publication of this notice and will receive due consideration before final action is taken. District contact person for project 920255 is Mr. Robert Rinaldi of Permit Services.

The application for emission reduction credits, support documents and the District's air quality impact analysis for project 4008-921117 are available for inspection at the District's office located at 2700 "M" Street, Suite 275, Bakersfield, Ca. 93301, (805) 861-3682.



San Joaquin Valley
Unified Air Pollution Control District

November 15, 1994

Mr. Dave Mallory
ARB - Stationary Source Division
P.O. Box 2815
Sacramento, CA 95817

Re: Request for Net Cumulative Change Table and Surplus Test for
ERC project # 920255

Dear Mr. Mallory:

Please find attached net cumulative change table and surplus test
for project 920255 per your request during our phone conversation
on November 15, 1994.

Thank you for your cooperation in this matter. Should you have
any questions, please telephone Mr. Rinaldi of Permit Services at
(805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

Thomas E. Goff, P.E.
Permit Services Manager - Southern Region

RCR

David L. Crow
Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kiernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8552

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93331
(805) 861-3682 • Fax (805) 861-2060



San Joaquin Valley
Unified Air Pollution Control District

FAX Transmittal Sheet

Southern Region

2700 "M" Street, Suite 275

Bakersfield, CA 93301

Voice: (805) 861-3682

FAX: (805) 861-2060

Date: 9/21/94

To: Leslie Stern ARB
Name Company

From: Robert Rinaldi

Total Pages (including cover page): 13 Fax No.: (916) 445-5023

Comments:

Here are copies of ATC's and PTD's
you asked me about in regard
to Chevron project # 920255

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3632

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008327A

Date: December 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 20, 1980

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of Existing Well Head Casing Vent Vapor
Recovery System (ID #CC-1-31)

SEE ATTACHED SHEET(S)

Location:

Sec. 31, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By:

Period: 5-20-80 to 5-20-82

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



R3F Collins

4008327A

FEQD Add steam generator firebox noncondensable vapor incineration system CC Syst CC-1-31 serving 3 wells

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent

Vapor Recovery System (ID #CC-1-31) serving the following 3 wells: 1-1A, 1-3A, and 3-1A,

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. ✓
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume. ✓
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

- R3F* 2. Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter), and the results and field data submitted to the District no more than 30 days thereafter.
- 3. Yearly Permit renewal testing shall be conducted during the months of June, July and August.
- 4. Sampling is not required of a correctly operating fuel gas or incineration system.

By

Thomas Paxson
Thomas Paxson, P.E.

Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008322A

Date: December 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 20, 1980

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of Existing Well Head Casing Vent Vapor Recovery System (ID # CT-2-4)

SEE ATTACHED SHEET(S)

Location:

Sec. 4, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 5-20-80 to 5-20-82

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008322A

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CT-2-4) serving the following 38 wells: 1-16, 1-18A, 1-20A, 1-29A, 3-22A, 3-32A, 6-30, 85, 89, 101, 102, 110, 113, 114, 115, 116, 117, 119, 122, 124, 128, 129, 167, 168, 201, 234, 126, 95, 1-26A (See Below)* including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

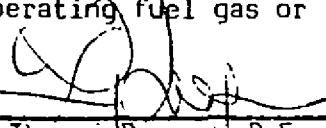
1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

*Wells - 109, 111, 171, 164, 5-24, 6-28, 5-32A, 90, and 219.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008313B

Date: December 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 19, 1980

TO:

Legal Owner
or Operator:

CHEVRON, U.S.A.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of Existing Well Head Casing Vent Vapor
Recovery System (ID #CC-1-5)

SEE ATTACHED SHEET(S)

Location:

Sec. 5, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 5-19-80 to 5-19-82

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



R3F 5/11/82

4008313B

REQD Add steam generator firebox noncondensable
vapor incineration system w/ water cooled heat
exchanger

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent
Vapor Recovery System (ID #CC-1-5) serving the following ^{R3F} 62 wells: 1-1A, ^{to CC-1-5} 1-3A, 3-1A, 5-1A, 5-5A, 10-1A, 9-3A, 9-7A, 11-1A, 13-1A, ^{CC-1-5} 13-5A, 15-1A, ^{CC-1-5} 13-5A, 15-5A, 92, 96, 105, 116, 119, 120, 121, 126, 158, 159, (See Below)*
including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,
- G. One water-cooled heat exchanger(s)

EQUIPMENT DESIGN CONDITIONS:

- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

- R3F 2. Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter.
- 3. Yearly Permit renewal testing shall be conducted during the months of June, July and August.
- 4. Sampling is not required of a correctly operating fuel gas or incineration system.

*wells: 180, 128, 112, 175, 57, 138, By Thomas Paxson, P.E.
1-10, 1-11A, 1-13, 3-8A, 3-10A, 3-11A, Air Sanitation Engineer III
3-13A, 5-8A, 5-10A, 5-11A, 5-13, 7-10A,
7-11A, 7-13A, 8-10, 8-11A, 8-13A, 9-10A, 9-11A, 10-13, 11-10, 11-11A, 11-13A,
13-6, 13-7, 13-9, 13-10A, 13-11B, 13-13, 11-12 and 115.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT
TO
OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008313

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.

For equipment located at: Sec. 5, T29S, R28E

Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-1-5

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be
required to provide adequate
sampling and testing facilities.
Equipment modification requires
a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not
authorize the emission of air
contaminants in excess of those
allowed by the Rules and Regu-
lations of the Kern County Air
Pollution Control District.

By: S. B. Bay

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation
#CC-1-5, w/ H2S Control System, including the following equipment:

- 66 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- 1 Water-cooled heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- 1 _____ vapor condenser(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condenser(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

Permit Number: 4008313

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 99%.
2. Final vapor condensor shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
6. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008514	02/24/89	1,000 bbl capacity slop oil tank # T-4	0.00	0.00	0.00	0.00	0.03	0.00
4008515	02/24/89	3,000 bbl capacity waste water tank # T-5	0.00	0.00	0.00	0.00	0.04	0.00
4008516	02/24/89	Heater treater # V-1	0.00	0.00	0.00	0.00	0.00	0.00
4008517	02/24/89	Heater treater # V-2	0.00	0.00	0.00	0.00	0.00	0.00
4008518	02/24/89	WEMCO air flotation unit # V-1	0.00	0.00	0.00	0.00	12.34	0.00
4008519	03/01/89	5,000 bbl capacity FWKO tank # T-1	0.00	0.00	0.00	0.00	0.18	0.00
4008520	03/01/89	5,000 bbl capacity FWKO tank # T-2	0.00	0.00	0.00	0.00	0.73	0.00
4008521	03/01/89	10,000 bbl capacity wash tank # T-3	0.00	0.00	0.00	0.00	0.00	0.00
4008522	03/01/89	10,000 bbl capacity wash tank # T-4	0.00	0.00	0.00	0.00	0.10	0.00
4008523	03/01/89	2,000 bbl capacity LACT tank # T-5	0.00	0.00	0.00	0.00	0.86	0.00
4008524	03/01/89	2,000 bbl capacity reject tank # T-6	0.00	0.00	0.00	0.00	0.96	0.00
4008525	03/01/89	1,000 bbl capacity slop oil tank # T-1	0.00	0.00	0.00	0.00	0.06	0.00
4008526	03/01/89	WEMCO air flotation unit # V-1	0.00	0.00	0.00	0.00	2.43	0.00
400892H	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008151K	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008171P	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008031K	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008098L	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008384J	07/12/89	TEOR Modification, Add K.G.	0.00	0.00	0.00	0.00	0.23	0.00
4008070L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008071L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008072L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008073L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008074L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008080H	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008081G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008082G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008317I	10/09/89	TEGR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008350H	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008352P	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008091P	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095P	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/89	Modify NO1 Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008377B	01/17/90	TEOR Change Conditions	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008077L	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008174D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008175D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008176D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008219E	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008220G	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008393E	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008394C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008395C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008396A	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008632A			Denied 3/19/90					
4008031N	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008085D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008086D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008087D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008088D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008089D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008090D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008498	07/09/90	TEGR with 35 Wells	0.00	0.00	0.00	0.00	19.69	0.00
4008218H	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008225B	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008782A	09/27/90	SG Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008070M	10/08/90	Make Gas Fired only Add PGR	0.00	0.00	0.00	-25.67	0.00	0.00
SSSA for 4008070M			0.00	0.00	0.00	2.57	0.00	0.00
4008071M	10/08/90	Make Gas Fired Only Add PGR	-14.91	-1.29	-19.28	-113.51	0.00	0.00
SSSA for 4008071M			1.49	0.13	1.93	11.35	0.00	0.00
4008072M	10/08/90	Make Gas Fired Only Add PGR	-22.04	-4.85	-30.14	-106.10	0.00	0.00
SSSA for 4008072M			2.20	0.49	3.01	10.61	0.00	0.00
4008073M	10/08/90	Make Gas Fired Only Add PGR	0.00	0.00	0.00	-24.66	0.00	0.00
SSSA for 4008073M			0.00	0.00	0.00	2.47	0.00	0.00
4008074M	10/08/90	Make Gas Fired Only Add PGR	-20.54	-7.68	-8.23	-104.34	0.00	0.00
SSSA for 4008074M			2.05	0.77	0.82	10.43	0.00	0.00
4008032 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008032 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 L	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 M	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbz/day
4008082 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008082 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008082 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008083 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008083 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008084 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008084 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008202 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008202 D	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008203 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008203 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008204 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008204 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008396 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008095 H	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008167 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008168 G	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008169 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008170 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008177 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008178 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008242 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008531 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4008532 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4008001 D	02/27/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008092 I	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-2.67	0.00	0.00
4008151 L	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.26	0.00	0.00
4008171 G	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-51.34	0.00	0.00
4008174 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-10.27	0.00	0.00
4008175 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-54.28	0.00	0.00
4008176 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-30.89	0.00	0.00
4008206 B	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.03	0.00	0.00
	11/05/90	SSSA for this project is netted out	0.00	0.00	0.00	0.00	0.00	0.00
4008001 D	02/01/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008032 K	02/14/91		-18.66	-8.83	-19.01	-62.39	0.00	0.00
4008033 I	02/14/91		-12.12	-5.67	-12.98	-42.91	0.00	0.00
4008082 K	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008083 I	02/14/91		-12.45	-6.06	-13.09	-39.05	0.00	0.00
4008084 I	02/14/91		-12.26	-6.08	-12.83	-46.92	0.00	0.00
4008088 P	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008195 B	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008285 C	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008286 C	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
	02/14/91	SSSA for this project	5.55	2.66	5.79	19.13	0.00	0.00
4008511 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	4.25	0.00
4008512 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.39	0.00
4008513 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	1.11	0.00
4008514 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008515 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	3.86	0.00
4008516 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008517 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008518 A	02/24/91	Increase Throughput Recalc	0.00	0.00	0.00	0.00	-11.85	0.00
4008519 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	3.02	0.00
4008520 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	8.02	0.00
4008521 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008522 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008523 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	0.35	0.00
4008524 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	1.63	0.00
4008525 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008091 Q	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008317 J	06/06/91	Add 80 Steam-Drive Wells	0.00	0.00	0.00	0.00	93.97	0.00
4008352 G	06/06/91	Add 80 Steam-Drive Wells	0.00	0.00	0.00	0.00	93.97	0.00
4008835	06/06/91	FEGR Operation Serving 250 Cyclic Wells	0.00	0.00	0.00	0.00	236.00	0.00
4008918	06/12/91	Paint Booth	0.92	0.00	0.00	0.00	20.71	0.00
4008549	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008550	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008551	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008552	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008553	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008554	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008555	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008556	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008557	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008558	06/19/91	1900 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008559	06/19/91	1900 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008560	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008561	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008562	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008563	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008564	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008565	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008566	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008567	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008568	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008569	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008570	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008571	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008576	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008577	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008578	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008579	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008581	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008582	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008583	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008584	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008585	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008586	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008587	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008588	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008589	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008590	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008530 A	07/17/91	Replace 4008530	0.00	0.00	0.00	0.00	0.00	0.00
4008589 A	08/01/91	Sump Replacement Tank, Increase Capacity	0.00	0.00	0.00	0.00	0.00	0.00
4008027 D	08/21/91	SLC Plan	0					
4008591	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.23	3.99	22.80
4008592	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008593	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008594	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008595	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008596	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008597	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008598	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008599	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008600	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
	09/12/91	Reestablish Hydrocarbon ERC's	0.00	0.00	0.00	0.00	-2726.48	0.00
	09/12/91	Bank Reestablished Hydrocarbon ERC's See 4008317/501 Project 921117	0.00	0.00	0.00	0.00	2726.48	0.00
4008027 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008028 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008031 P	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008032 L	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008033 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008034 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008059 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008065 L	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008066 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008070 O	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008071 O	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008072 N	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008073 N	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008074 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008077 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008080 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008081 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008082 M	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008083 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008084 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008085 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008086 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	KO2 lbs/day	HC lbs/day	CO lbs/day
4008087 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008088 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008089 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008090 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008091 S	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008092 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008093 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008094 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008096 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008097 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008098 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008099 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008102 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008151 M	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008171 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008174 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008175 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008176 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008184 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008185 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008186 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008195 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008202 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008203 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008204 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008205 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008206 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008207 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008208 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008213 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008214 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008216 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008218 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008219 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008225 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008285 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008286 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008287 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008288 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008391 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008392 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008393 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008394 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008395 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008396 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008810 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008811 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008812 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008813 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008814 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008815 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.60	0.00	0.00	0.00	0.00	0.00
4008816 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.60	0.00	0.00	0.00	0.00	0.00
4008817 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008819 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008820 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008821 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008822 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008080 L	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008081 P	10/22/91	Modify operating condition	0.60	0.00	0.00	0.00	0.00	0.00
4008082 L	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008350 I	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008549 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.04	0.00
4008550 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.04	0.00
4008551 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.02	0.00
4008552 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.13	0.00
4008553 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008554 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008555 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008556 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.15	0.00
4008557 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.12	0.00
4008558 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.22	0.00
4008558 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.22	0.00
4008559 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008560 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008561 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008562 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008563 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.03	0.00
4008564 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	0.03	0.00
4008565 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	1.00	0.00
4008566 A	10/22/91	Increase TVP Allowed	0.00	0.00	0.00	0.00	1.00	0.00
4008601	10/22/91	Tankage vapor control system	0.00	0.00	0.00	0.00	0.60	0.00
4008602	10/22/91	WEMCO	0.00	0.00	0.00	0.00	1.00	0.00
4008603	10/22/91	WEMCO	0.00	0.00	0.00	0.00	1.00	0.00
4008604	10/22/91	WEMCO	0.00	0.00	0.00	0.00	1.00	0.00
4008605	10/22/91	Tank	0.00	0.00	0.00	0.00	0.10	0.00
4008606	10/22/91	Tank	0.00	0.00	0.00	0.00	0.04	0.00
4224001 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	124.47	0.00
4224002 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224003 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224004 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224005 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224006 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.02	0.00
4224007 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.02	0.00
4224008 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224009 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	2.16	0.00
4224011 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.46	0.00
4224012 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224013 A	10/22/91	Increase TVP allowed	0.00	0.00	0.00	0.00	0.03	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4224014 A	10/22/91	Increase TSP allowed	0.00	0.00	0.00	0.00	0.03	0.00
4006027 F	10/28/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008027 G	10/28/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008346 H	01/21/92	Modify Incinerator	Cancelled					
4008785 A	03/18/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008070 P	03/20/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008073 Q	03/20/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008451 B	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008211 A	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008212 A	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008070 P	03/20/92	S.G. Modification	0.00	0.00	0.00	0.00	0.00	0.00
4008073 Q	03/20/92	S.G. Modification	0.00	0.00	0.00	0.00	0.00	0.00
4008451 B	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224211 A	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224212 A	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224220 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224270 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224289 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224344 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224392 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224401 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224607 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4008569 A	05/06/92	C of L Tank	Cancelled					
4008805 A	05/20/92	T of L Soda Ash Receiving	0.00	0.00	0.00	0.00	0.00	0.00
4224288 A	05/26/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4224289 A	05/26/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4224251 A	06/04/92	T of L Storage Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008319 G	06/09/92	Combine 3 TEOR Systems	0.00	0.00	0.00	0.00	0.00	0.00
4008171 J	06/10/92	Modify S.G. Share Scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008218 J	06/10/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008349 J	06/10/92	Modify TEOR	0.00	0.00	0.00	0.00	0.00	0.00
4008511 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008512 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008513 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008514 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008515 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008516 B	06/10/92	Modify Heat treater	0.00	0.00	0.00	0.00	0.00	0.00
4008517 B	06/10/92	Modify Heat Treater	0.00	0.00	0.00	0.00	0.00	0.00
4008518 B	06/10/92	WENCO	0.00	0.00	0.00	0.00	0.00	0.00
4008546 A	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008547 A	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008999 P	08/11/92	Renewal	0.00	0.00	0.00	0.00	0.00	0.00
4008499 A	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008499 B	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008499 C	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
S-0038-1	09/27/93	Re-establish credit for 4008317B issued on 05/19/80 above						
S-0056-1	09/27/93	Re-establish credit for 4008318A issued on 05/19/80 above						
S-0057-1	09/27/93	Re-establish credit for 4008319B issued on 05/19/80 above						
S-0058-1	09/27/93	Re-establish credit for 4008350A issued on 05/19/80 above						

Adjustments Represented by Authorities to Construct Issued After 9/12/79

76

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
S-0059-1	09/27/93	Re-establish credit for 4008349C issued on 05/19/80 above						
S-0060-1	09/27/93	Re-establish credit for 4008345A issued on 05/19/80 above						
S-0061-1	09/27/93	Re-establish credit for 4008346B issued on 05/19/80 above						
S-0062-1	09/27/93	Re-establish credit for 4008347B issued on 05/19/80 above						
S-0063-1	09/27/93	Re-establish credit for 4008349C issued on 05/19/80 above						
	09/27/93	Adjustment required by surplus test - see evaluation of project # 920225						-531.20
Total adjustments since 9/12/79			-29.5	129.2	-623.7	-63.9	150.0	3254.3

ERC'S Resulting From Shutdown of Equipment

204136/501	07/28/92	Shutdown of 8 I.C. engine compressors (4 Gtrs)						147
4008415/50	07/28/92	Shutdown of tanks and truck loadout (4 Gtrs)						19

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008052B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008056B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109C	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008121B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008122B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008123B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008124B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008125B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008041B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008046B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008109D	02/19/80	Decrease PM control efficiency; 70% to 40% PM emission increase offset with road paving	0.00	0.00	0.00	0.00	0.00	0.00
4008127A	02/21/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008301A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-165.00	0.00
4008302B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-374.40	0.00
-S-0037-1	09/27/93	Re-establish Emission Reduction Credits for 4008302B					336.18	
4008303B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-715.00	0.00
/S-0037-1	09/27/93	Re-establish Emission Reduction Credits for 4008303B					645.47	
4008304A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-344.60	0.00
4008305B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-195.00	0.00
-S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008305B					174.81	
4008306B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-390.00	0.00
/S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008306B					349.63	
4008307A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-135.00	0.00
/4008308B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-510.00	0.00
/S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008308B					457.00	
4008309C	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-585.00	0.00
4008310B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-208.80	0.00
/S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008310B					201.71	
4008311A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-418.90	0.00
/S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008311A					376.52	
4008313B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-877.50	0.00
-S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008313B					779.94	
-4008315A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-222.00	0.00
-S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008315A					174.81	
-4008316B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-463.50	0.00
S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008316B					376.52	
-4008322B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-460.30	0.00
-S-0067-1	09/27/93	Re-establish Emission Reduction Credits for 4008322B					416.86	
-4008323A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-598.00	0.00
-S-0067-1	09/27/93	Re-establish Emission Reduction Credits for 4008323A					537.89	
4008324B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-249.20	0.00
-4008325A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-432.50	0.00
/S-0068-1	09/27/93	Re-establish Emission Reduction Credits for 4008325A					389.97	
4008326A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-75.00	0.00
/4008327A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-45.00	0.00
/S-0068-1	09/27/93	Re-establish Emission Reduction Credits for 4008327A					40.34	
4008328B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-80.90	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008329B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-85.00	0.00
-S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008329B					80.68	
4008330B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-40.40	0.00
S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008330B					40.40	
-4008331A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-131.40	0.00
S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008331A					107.58	
4008333A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-255.00	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008333A					228.60	
4008334A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	600.00	0.00
4008335A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	300.00	0.00
4008320A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-225.00	0.00
4008340A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-240.00	0.00
4008341A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-690.00	0.00
4008146	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008146B 2/20/86					
4008147	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008147A 2/20/86					
4008148	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008148A 2/20/86					
4008149	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008149B & C 2/20/86					
4008152	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008152A 2/20/86					
4008153	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008153A 2/20/86					
4008154	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008154A 2/20/86					
4008155	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008155A 2/20/86					
4008156	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008156A 2/20/86					
4008157	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008157A 2/20/86					
4008158	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008158B 6/19/86					
4008159	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008159B/C 6/19/86					
4008160	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008160A 6/19/86					
4008161	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008161A 6/19/86					
4008162	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008162A 6/19/86					
4008163	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008163A 6/19/86					
4008164	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008164A 6/19/86					
4008165	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008165A 6/19/86					
4008166	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008166A 6/19/86					
4008180	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008180A 6/19/86					
4008181	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008181A 6/19/86					
4008146A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008149A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008159A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008360	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	18.79	0.00
4008361	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	25.08	0.00
4008362	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	24.48	0.00
4008332A	05/19/80	Modify TEOR operation	Cancelled and replaced by 4008332B 9/26/83					
4008364	05/19/80	TEOR operation	Cancelled and replaced by 4008364A 9/26/83					
4008365	05/19/80	TEOR operation	Cancelled and replaced by 4008332B 9/26/83					
4008366	05/19/80	TEOR operation	Cancelled and replaced by 4008364A 9/26/83					
4008367	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	21.13	0.00
4008017B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008018A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008019A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008020A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008021A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008022A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008023A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008024B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008025A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008037C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008038A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008039A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008040A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008041C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008042A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008043A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008044A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008045A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008046C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008047B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008048B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008049A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008050A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008051A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008052C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008056C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008061A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008062A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008103A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008104A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008105A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008109E	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008113A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008114A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008115A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008116A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008117A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008121C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008122C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008123C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008124C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008125C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008128A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008129A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008221A	09/16/80	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008224A	09/16/80	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008302C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008313D	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008316C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008323B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008331B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008211A	11/14/80	Scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008129B	01/15/81	Lo-NOx staged combustion burner	0.00	0.00	0.00	0.00	0.00	0.00
4008018B	01/23/81	Experiaantal reverse jet scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008303C	02/12/81	Modify TEOR operation; add #2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325C	02/12/81	Modify TEOR operation; add 2 wells	0.00	0.00	0.00	0.00	5.00	0.00
4008331C	02/12/81	Modify TEOR operation; add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00
4008310C	02/13/81	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008001A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-63.90	0.00	0.00
4008002A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008003A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008004A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008005A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008006A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008007A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008008A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008009A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008010A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-59.90	0.00	0.00
4008011A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008012A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008013A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008014A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008015A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008016A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008018C	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008029A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008030A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008053A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008054A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008055A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008057A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008058A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008059A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008060A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008063A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008139A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008140A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008141A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008142A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008143A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008144A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008145A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008326B	02/17/81	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008015A	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008041D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008046D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109E	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008114B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008115B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008211B	03/11/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day	
4008124D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008125D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008128B	08/12/82	Exp. IG-NOx staged combustion burner	0.00	0.00	0.00	0.00	0.00	0.00	
4008438	10/07/82	Rail car coal unloading operation	52.40	0.00	0.00	0.00	0.00	0.00	
4008439	10/07/82	Coal transfer and storage operation	Does not operate when 4008438 is operating						
4008440	10/07/82	Limestone receiving and storage	0.27	0.00	0.00	0.00	0.00	0.00	
4008441	10/07/82	Coal fired steam generator	79.20	0.00	132.60	429.60	62.40	400.30	
4008442	10/07/82	Ash handling and disposal	2.00	0.00	0.00	0.00	0.00	0.00	
4008013B	01/18/83	Multiple locations for SG	0.50	0.00	449.90	0.00	0.10	0.20	
4008189A	01/18/83	62.5 MM BTU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
4008190A	01/18/83	62.5 MM BTU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
	01/18/83	Surrender P to O # 4008005	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to O # 4008010	-43.00	-8.10	-47.70	-184.32	-3.10	-15.40	
	01/18/83	Surrender P to O # 4008030	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to O # 4008060	-39.40	-7.40	-43.70	-168.96	-2.80	-14.10	
4008007B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008007C 11/26/84						
4008037F	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008037G 11/26/84						
4008038C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008038D 11/26/84						
4008039C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008039D 11/26/84						
4008040C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008040D 11/26/84						
4008063B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008063C 11/26/84						
4008117B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008117C 11/26/84						
4008332B	09/26/83	Mod. TEOR operation; consolidate systems	0.00	0.00	0.00	0.00	-264.40	0.00	
4008364A	09/26/83	Mod. TEOR operation; consolidate systems	A to C surrendered by applicant 8/29/85						
4008334C	10/07/83	Modify TEOR operation; add incinerator	0.00	0.00	0.00	0.00	-882.10	0.00	
4008335C	10/07/83	Modify TEOR operation; add incinerator	0.00	0.00	0.00	0.00	-470.40	0.00	
4008303D	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008311C	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	6.30	0.00	
4008320A	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008322E	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	5.90	0.00	
4008330C	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008305C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008306C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008308C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008315B	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008316E	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008443	05/11/84	3,000 bbl wash tank	0.00	0.00	0.00	0.00	12.90	0.00	
4008444	05/11/84	5,000 bbl wash tank	0.00	0.00	0.00	0.00	13.80	0.00	
4008323C	06/08/84	Modify TEOR operation	0.00	0.00	0.00	0.00	18.84	0.00	
4008325E	06/08/84	Modify TEOR operation	0.00	0.00	0.00	0.00	3.14	0.00	
4008304B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008304C 5/14/85						
4008307B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008307C 5/14/85						
4008308D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008308E 5/14/85						
4008309D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008309E 5/14/85						
4008310D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008310E 5/14/85						
4008311D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008311E 5/14/85						
4008333B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008333C 5/14/85						
4008331D	10/08/84	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	3.14	0.00	
4008002D	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PK lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	EC lbm/day	CO lbm/day
4008024C	10/29/84	Revise scrubber eff. & emission limits	35.79	1.00	13.10	36.30	0.80	3.99
4008025C	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008049B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008050B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008051B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008055B	10/29/84	Revise scrubber eff. & emission limits	-15.75	0.00	0.00	0.00	0.60	0.00
4008057B	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00
4008061B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008062B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008103B	10/29/84	Revise scrubber eff. & emission limits	-15.50	0.00	0.00	0.00	0.00	0.00
4008104B	10/29/84	Revise scrubber eff. & emission limits	-15.50	0.00	0.00	0.00	0.00	0.00
4008105B	10/29/84	Revise scrubber eff. & emission limits	-15.50	0.00	0.00	0.00	0.00	0.00
4008116D	10/29/84	Revise scrubber eff. & emission limits	-15.50	0.00	0.00	0.00	0.00	0.00
4008127B	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008140B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008141B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008142B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008143B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008144B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008145B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008189B	10/29/84	Revise scrubber eff. & emission limits	-13.42	0.00	0.00	0.00	0.00	0.00
4008190B	10/29/84	Revise scrubber eff. & emission limits	-13.42	0.00	0.00	0.00	0.00	0.00
4008340B	10/29/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	-12.50	0.00
4008341B	10/29/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	-32.50	0.00
	10/29/84	Surrender P to O # 4008011	-39.38	-15.47	-485.74	-168.96	-2.81	-14.66
	10/29/84	Surrender P to O # 4008058	-32.40	-11.29	-45.59	-168.96	-2.93	-14.67
	10/29/84	Surrender A to C # 4008339	0.00	0.00	0.00	0.00	-37.50	0.00
4008002E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008007C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008014B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008017C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008018D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008019B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008020B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008021B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008022B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008023B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008024D/E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008037G	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008038D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008039D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008040D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008041E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008044B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008045B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008046E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008047B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008048B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008049C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008050C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008051C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008052D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008053B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008055C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008056D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008057C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008061C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008062C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008063C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008103C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008104C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008109G	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008113B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008114C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008115C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008116C/D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008117C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008121E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008122E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008123E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008124E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008125E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008129B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008139B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008140C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008141C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008142C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008143C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008144C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008145C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
	11/26/84	Surrender A to C # 4008339A	0.00	0.00	0.00	0.00	-37.50	0.00
4008313F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008313G 3/20/85					
4008315C	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008315D 3/20/85					
4008316F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008316G 3/20/85					
4008325F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008325P 3/20/85					
4008326C	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008326D 3/20/85					
	11/30/84	Surrender A to C # 4008327A	0.00	0.00	0.00	0.00	-7.50	0.00
4008025D	01/04/85	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008313G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	361.10	0.00
4008315D	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	69.10	0.00
4008316G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	207.20	0.00
4008325G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	194.70	0.00
4008326D	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	69.10	0.00
4008304C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	100.50	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbw/day	SO ₂ lbw/day	SO ₂ lbw/day	NO ₂ lbw/day	HC lbw/day	CO lbw/day
4008307C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	94.20	0.00
4008308E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	141.30	0.00
4008309E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	270.10	0.00
4008310E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	59.70	0.00
4008311E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	125.60	0.00
4008333C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	72.20	0.00
4008301B	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	133.60	0.00
4008331E	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	70.60	0.00
4008381	06/28/85	New TEOR operation	0.00	0.00	0.00	0.00	147.50	0.00
	06/28/85	Surrender P to O # 4008328	0.00	0.00	0.00	0.00	-20.00	0.00
	06/28/85	Surrender P to O # 4008329	0.00	0.00	0.00	0.00	-20.00	0.00
	06/28/85	Surrender P to O # 4008330	0.00	0.00	0.00	0.00	-10.00	0.00
	06/28/85	Surrender A to C # 4008328B	0.00	0.00	0.00	0.00	-67.50	0.00
	06/28/85	Surrender A to C # 4008329B	0.00	0.00	0.00	0.00	-85.00	0.00
	06/28/85	Surrender A to C # 4008330B	0.00	0.00	0.00	0.00	-60.00	0.00
4008322P	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	131.10	0.00
4008323D	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	260.45	0.00
4008303E	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008332C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-39.00	0.00
4008334D	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-78.00	0.00
4008335D	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-52.50	0.00
4008340C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008341C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	9.40	0.00
4008435A	09/27/85	Modify tank battery	0.00	0.00	0.00	0.00	0.00	0.00
4008003B	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008004B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-21.12	0.00	0.00
4008006D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00
4008007D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-15.48	0.00	0.00
4008008B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008009B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008012B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008013C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008014C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008016B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008017E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008018P	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008019C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008020C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008021C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008022C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008023C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008024P	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008025E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008037H	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008038E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008039E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008040E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008041G	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008042C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008043C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008044C	12/03/85	Revise NOx emission limits	0.00	0.00	0.60	9.60	0.00	0.00	
4008045C	12/03/85	Revise NOx emission limits	0.00	0.00	0.60	9.60	0.00	0.00	
4008046P	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008047C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008043C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008049D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008050D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008051D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008052E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008053C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008054B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008055D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008056E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008061D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008062D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008063D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00	
4008103D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008014D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008105D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008109H	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008113C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008114D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008115E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008116E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008117E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008121F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008122F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008123F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008124F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008125F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008127C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008128C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00	
4008129C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00	
4008211C	01/10/86	Revise approved emission limits	-13.47	-7.02	-49.02	-27.23	0.00	0.00	
4008217B	01/10/86	Revise approved emission limits	-18.67	-9.82	-68.38	-37.65	0.00	0.00	
4008221B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-45.36	0.00	0.00	
4008222C	01/10/86	Revise approved emission limits	-22.28	-3.68	-66.60	-45.36	0.00	0.00	
4008223B	01/10/86	Revise approved emission limits	-22.28	-3.68	-7.40	-45.36	0.00	0.00	
4008224B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-13.50	0.00	0.00	
4008441A	01/10/86	Revise approved emission limits	4.95	3.26	-85.08	-64.95	-60.70	-392.30	
	01/10/86	Surrender P to O 4008255	-0.29	0.00	-0.04	-132.02	-1.34	-18.11	
	01/10/86	Surrender P to O 4008256	-0.29	0.00	-0.04	-132.02	-1.34	-18.11	
4008002F	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.22	0.00	0.00	0.00	
4008006E	02/20/86	Revise existing S. G. emission limits	Withdrawn by applicant during processing						
4008007E	02/20/86	Revise existing S. G. emission limits	-0.61	-4.64	4.08	0.00	0.00	0.00	
4008012C/D	02/20/86	Revise existing S. G. emission limits	-13.66	-4.26	-401.09	0.00	0.00	0.00	
4008014D	02/20/86	Revise existing S. G. emission limits	-14.06	-4.26	0.41	0.00	0.00	0.00	
4008015D	02/20/86	Revise existing S. G. emission limits	-13.75	-4.26	-4.05	0.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	EC lbm/day	CO lbm/day
4008029B	02/20/86	Revise existing S. G. emission limits	-17.00	-4.65	-437.69	0.00	0.00	0.00
4008037I	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008038J	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008039P	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008040P	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008041H	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008042D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008043D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008044D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008045D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008046G	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008047D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008048D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008049E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008050E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008051E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008052P	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008053D	02/20/86	Revise existing S. G. emission limits	-15.50	-4.65	0.44	0.00	0.00	0.00
4008056P	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008057D	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.42	0.00	0.00	0.00
4008061E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008062E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008063E	02/20/86	Revise existing S. G. emission limits	-3.37	-5.07	4.51	0.00	0.00	0.00
4008103E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008104E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008105E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008109I	02/20/86	Revise existing S. G. emission limits	-5.37	-10.56	-10.05	0.00	0.00	0.00
4008113D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	4.54	0.00	0.00	0.00
4008114E	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	5.66	0.00	0.00	0.00
4008115P	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	-6.01	0.00	0.00	0.00
4008116P	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008117P	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008121G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008122G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008123G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008124G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008125G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008128D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008129D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008146B	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008147A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008148A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008149B/C	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008152A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008153A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008154A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008155A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008156A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008157A	02/20/86	62.5 MW BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	EC lbm/day	CO lbm/day
4008158A	02/20/86	Revise scrubber conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008265	02/27/86	62.5 MW BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008266	02/27/86	62.5 MW BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008267	02/27/86	62.5 MW BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008268	02/27/86	62.5 MW BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008269	02/27/86	62.5 MW BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008332D	05/07/86	Modify TEOR operation 27-CC-1	0.00	0.00	0.00	0.00	0.00	0.00
4008017D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008018E	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008019D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008020D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008021D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008022D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008023D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008024G	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008025F	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008053D	06/19/86	Revise steam generator cond. of approval	-1.53	0.00	0.00	0.00	0.00	0.00
4008055E	06/19/86	Revise steam generator cond. of approval	-1.20	0.00	-2.60	0.00	0.00	0.00
4008127C	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008140D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008141D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008142D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008143D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008144D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008145D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008159B	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Revise flue gas scrubber cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008160A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008161A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008162A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008163A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008164A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008165A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008166A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008190C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008017F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008018G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008019E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008020E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008021E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008022E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008023E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008024H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008025G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008041I	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008042E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008043E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008044E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008045E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008046H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008047E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008048E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008049F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008050P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008051F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008052G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008056G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008061F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008062P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008103P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008104F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008105P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008109J	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008113E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008114F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008115G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008116G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008117G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008121H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008122H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008123H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008124H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008125H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008127D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008139C	06/19/86	Revise SG authorized emission limits	22.10	0.00	-1.73	-96.00	0.00	0.00
4008140E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008141E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008142E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008143E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008144E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008145E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008146C	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008147B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008148B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008149D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008152B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008153B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008154B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008155B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008156B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008157B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008158B	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00
4008159D	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008160B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008161B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008162B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008163B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008164B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008165B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008166B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008180A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008181A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-36.00	0.00	0.00
4008190D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-36.00	0.00	0.00
4008191A	06/19/86	Revise SG authorised emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008192A	06/19/86	Revise SG authorised emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008193A	06/19/86	Revise SG authorised emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008194A	06/19/86	Revise SG authorised emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008217C	06/19/86	Revise op. cond. from 100/75 to 80/80	-4.66	-1.47	-4.56	-26.16	-0.53	-2.64
4008221C	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-61.78	-1.27	-6.36
4008222D	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-10.69	-61.78	-1.27	-6.36
4008224B	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-70.98	-1.27	-6.36
4008263	06/19/86	62.5 MW BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00
4008264	06/19/86	62.5 MW BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00
4008270	06/19/86	22.3 MW cogeneration system w/duct burner	98.78	15.14	15.14	1470.00	280.09	254.02
4008271	06/19/86	22.3 MW cogeneration system w/duct burner	98.78	15.14	15.14	1470.00	280.09	254.02
4008273	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008274	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008275	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008276	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008277	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008278	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008279	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008280	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008281	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
	06/19/86	Surrender Authority to Construct # 4008132	-12.07	-1.84	-150.37	-51.61	-0.83	-4.15
	06/19/86	Surrender Authority to Construct # 4008133	-12.07	-1.84	-150.37	-51.61	-0.83	-4.15
	06/19/86	Surrender Permit to Operate # 4008223	-38.07	-19.89	-37.00	-213.84	-4.40	-22.02
	06/19/86	Surrender Authority to Construct # 4008244	-40.18	-13.61	-133.49	-259.20	-4.32	-21.60
	06/19/86	Surrender Authority to Construct # 4008245	-59.18	-23.11	-127.15	-259.20	-4.32	-21.60
	06/19/86	Surrender Authority to Construct # 4008246	-8.29	-3.24	-101.60	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008247	-8.29	-3.24	-101.60	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008248	-4.15	-1.62	-50.80	-23.89	-0.30	-1.51
	06/19/86	Surrender Authority to Construct # 4008250	-5.62	-1.91	-59.82	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008251	-5.62	-1.91	-59.82	-47.78	-0.60	-3.02
4008324D	06/23/86	Modify TEOR Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008335E	06/23/86	Modify TEOR Operation; delete 2 wells	0.00	0.00	0.00	0.00	-6.28	0.00
4008340D	06/23/86	Modify TEOR Operation; add 1 wells	0.00	0.00	0.00	0.00	3.14	0.00
4008341D	06/23/86	Modify TEOR Operation; add 4 wells	0.00	0.00	0.00	0.00	12.56	0.00
4008302D	06/26/86	Modify TEOR Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008303F	06/26/86	Modify TEOR Operation;	0.00	0.00	0.00	0.00	0.00	0.00
4008305D	06/26/86	Modify TEOR Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008306D	06/26/86	Modify TEOR Operation; add 4 wells	0.00	0.00	0.00	0.00	12.56	0.00
4008024I	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008140F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008141F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008142F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008143F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008144F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008145F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008341E	08/01/86	Modify TEOR Operation; add 23 wells	0.00	0.00	0.00	0.00	63.90	0.00
4008361A	09/16/86	Combine three TEOR operations	0.00	0.00	0.00	0.00	-51.20	0.00
4008445	09/24/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008447	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008448	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008449	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008450	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008006F	11/25/86	Increase fuel S % from 1.1% to 1.2%	2.82	1.40	3.99	0.00	0.00	0.00
4008016C	11/25/86	Increase fuel S % from 1.1% to 1.2%	2.82	1.40	44.21	0.00	0.00	0.00
4008302E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008303G	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008305E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008306E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008385H	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008150B	04/08/87	Change steam generator ESL's	-6.04	0.00	23.55	-54.91	0.00	0.00
4008046J	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008047G	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008048G	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008052H	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008056E	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008001B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	5.01	0.00
4008002G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008003C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008004C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008006B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008007F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008008C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008009C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008012E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008013D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008014E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008015F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008016D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008017H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008018I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008019F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008020F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008021F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008022F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008023F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008025H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008029C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008037J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008038K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008039G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008040G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008041J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008042P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008043P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008044P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008045P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008049G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008050G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008051G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008053P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008054C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008055P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008057E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008061G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008062G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008063P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008103G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008104G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008105G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008109K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008113P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008114G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008115H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008116H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008117H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008121I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008122I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008123I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008124I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008125I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008127F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008128E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008129E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008139E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008146P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008147D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008148D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008149E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008152C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008153C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008154C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008155C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008156C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008157C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008158C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008159E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008160C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008161C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008162C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008163C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008164C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008165C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008166C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008180B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008181B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008189E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008190E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008191C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008192C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008193C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008194C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008211D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008217D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008221D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008222E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008224D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008263A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008264A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008265A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008266A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008267A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008268A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008269A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008273A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008274A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008275A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008276A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008277A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008024J	11/04/87	Modify SO2 monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
Total adjustments from 9/12/79 to 6/22/87 =			93.05	137.06	-2541.33	-1697.61	-719.62	2054.17

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008128F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008129F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008139F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008140G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008141G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008142G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008143G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008144G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008145G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.50	0.00	0.00
4008146G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008147E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008148E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008149F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008152D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008153D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008154D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008155D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008156D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008157D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008159F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008160D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008161D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008162D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008163D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008164D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008165D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008166D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008189F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008190F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008313E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008315E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008316E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008325H	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008326E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008301C	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008304D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008305F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008306F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008307D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008308F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008309F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008310F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008311F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008313I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008315F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008316I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008322G	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008323E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008324E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00

96

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008325I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008326F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008331F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008333S	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008381A	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008019H	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008116J	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008334E	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00
4008335F	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00
4008019H	11/28/88	T of L	0.00	0.00	0.00	0.00	0.00	0.00
4008116J	11/28/88	T of L	0.00	0.00	0.00	0.00	0.00	0.00
4008211E	03/27/90	T of L	0.00	0.00	0.00	0.00	0.00	0.00
4008217E	03/27/90	T of L	0.00	0.00	0.00	0.00	0.00	0.00
4008025J	09/04/90	Gas fire w/PGR on existing SG	-16.64	-3.86	-17.49	-66.20	0.00	0.00
4008039I	09/04/90	Gas fire w/PGR on existing SG	-11.54	-3.38	-22.03	-38.02	0.00	0.00
4008040I	09/04/90	Gas fire w/PGR on existing SG	-6.41	-0.90	-15.54	-12.86	0.00	0.00
4008046K	09/04/90	Gas fire w/PGR on existing SG	-23.37	-6.03	-36.12	-98.00	0.00	0.00
4008047I	09/04/90	Gas fire w/PGR on existing SG	-23.28	-6.00	-36.01	-97.58	0.00	0.00
4008048I	09/04/90	Gas fire w/PGR on existing SG	-23.82	-6.21	-36.68	-100.26	0.00	0.00
4008052J	09/04/90	Gas fire w/PGR on existing SG	-21.52	-5.31	-33.83	-88.83	0.00	0.00
4008056J	09/04/90	Gas fire w/PGR on existing SG	-26.48	-7.24	-39.97	-113.45	0.00	0.00
4008117J	09/04/90	Gas fire w/PGR on existing SG	-14.18	-4.66	-25.37	-50.96	0.00	0.00
4008127H	09/04/90	Gas fire w/PGR on existing SG	-10.83	-1.50	-12.59	-37.06	0.00	0.00
4008189G	09/04/90	Gas fire w/PGR on existing SG	-18.07	-4.45	-18.70	-73.42	0.00	0.00
4008190G	09/04/90	Gas fire w/PGR on existing SG	-20.17	-5.30	-20.47	-83.95	0.00	0.00
		SSSA adjustment for prev. 12 ATC's	21.63	5.49	31.48	86.06	0.00	0.00
4008022I	10/08/90	Transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008144H	10/08/90	Transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008017J	12/04/90	Gas fire w/PGR on existing SG	-16.36	0.00	-10.25	-85.28	0.00	0.00
		SSSA adjustments for 4008017J	1.69	0.00	1.03	8.53	0.00	0.00
4008018K	12/04/90	Gas fire w/PGR on existing SG	-14.10	0.00	-8.69	-68.08	0.00	0.00
		SSSA adjustments for 4008018K	1.41	0.00	0.87	6.81	0.00	0.00
4008019I	12/04/90	Gas fire w/PGR on existing SG	-16.35	0.00	-9.96	-82.39	0.00	0.00
		SSSA adjustments for 4008019I	1.63	0.00	1.00	8.24	0.00	0.00
4008020H	12/04/90	Gas fire w/PGR on existing SG	-6.59	0.00	-4.47	-25.21	0.00	0.00
		SSSA adjustments for 4008020H	0.66	0.00	0.45	2.52	0.00	0.00
4008021H	12/04/90	Gas fire w/PGR on existing SG	-10.28	0.00	-6.65	-47.74	0.00	0.00
		SSSA adjustments for 4008021H	1.03	0.00	0.56	4.77	0.00	0.00
4008022H	12/04/90	Gas fire w/PGR on existing SG	-10.53	0.00	-6.69	-47.69	0.00	0.00
		SSSA adjustments for 4008022H	1.05	0.00	0.67	4.77	0.00	0.00
4008023H	12/04/90	Gas fire w/PGR on existing SG	-10.57	0.00	-6.71	-49.35	0.00	0.00
		SSSA adjustments for 4008023H	1.06	0.00	0.67	4.94	0.00	0.00
4008001D	02/01/91	Add/delete location on PTO	0.00	0.00	0.00	0.00	0.00	0.00
4008001E		Add SLC for Rule 210.1 Compliance Plan	Canceled by 4008001F 8/21/91					
4008001F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008002H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008003D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00

96A

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008004D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008006H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008007G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008008D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008009D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008012F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008013E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008014F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008015G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008016E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008017K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008018L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008019J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008020I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008021I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008022J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008023I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008024L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008025K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008029E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008037E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008038K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008039J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008040J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008041L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008042H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008043H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008044E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008045H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008046L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008047J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008048J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008049I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008050I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008051I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008052K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008053G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008054D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008055G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008056K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008057F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008061I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008062I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008063G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008103I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008104I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008105I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008109K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008113H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source (Heavy)

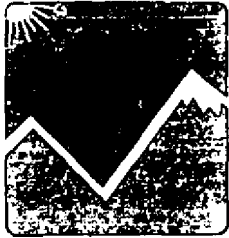
Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
40081141	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008115J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008116K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008117K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008121X	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008122K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008123K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008124K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008125K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008127I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008128G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008129G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008136A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008137A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008138A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008140H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008141H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008142H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008143H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008144I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008145H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008149H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008190H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008210A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008211F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008217F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008270A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008271A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008270B	07/24/92	Remove CEM's	Cancelled					
4008271B	07/24/92	Remove CEM's	Cancelled					
4008001G	10/01/92	Modify SLC Plan: Surrender 6 PFO's	0.00	0.00	0.00	0.00	0.00	0.00
S-0037-1	09/27/93	Re-establish credit for 4008302B and 4008303B issued on 5/19/80 above						
S-0064-1	09/27/93	Re-establish credit for 4008329B, 4008330B and 4008331 issued on 5/19/80 above						
S-0065-1	09/27/93	Re-establish credit for 4008305B, '306B, '308, '310, '311, and '333 issued on 5/19/80 above						
S-0066-1	09/27/93	Re-establish credit for 4008313B, '315A and '316B issued on 5/19/80 above						
S-0067-1	09/27/93	Re-establish credit for 4008322B and 4008323A issued on 5/19/80 above						
S-0068-1	09/27/93	Re-establish credit for 4008325A and 4008327A issued on 5/19/80 above						

 Total authorized emission rate changes since 9/12/79 = -178.38 87.71 -2872.72 -1139.09 0.00 2654.17

ERC's Resulting From Shutdown of Equipment

4008144/501 07/20/92	Shutdown steam generators (1st Qtr)	6.75
4008144/501 07/20/92	Shutdown steam generators (2nd Qtr)	5.71
4008144/501 07/20/92	Shutdown steam generators (3rd Qtr)	5.75
4008144/501 07/20/92	Shutdown steam generators (4th Qtr)	5.08



San Joaquin Valley
Unified Air Pollution Control District

AIR POLLUTION CONTROL DISTRICT FEES

October 13, 1993

BILL NO.: EB93-16

CHEVRON U.S.A., INC.
P.O. BOX 1392
BAKERSFIELD, CA 93302

RE: FINAL BILLING FOR EMISSION REDUCTION CREDIT (ERC) BANKING
CERTIFICATE FOR CHEVRON U.S.A., INC. AT HEAVY WESTERN SOURCE, FOR THE
FOLLOWING ERC NUMBER(S): S-0038-1, S-0056-1 THRU S-0063-1

DESCRIPTION: VOC EMISSION REDUCTION CREDITS FOR INSTALLATION OF CASING
COLLECTION SYSTEMS INSTALLED PRIOR TO APRIL 25 1983. PROJECT# 920255 - RCR

FEE SCHEDULE FOR ENGINEERING EVALUATION	FEE
92.25 HOURS AT \$48 PER HOUR	\$4428.00
CREDIT	-\$650.00
TOTAL DUE	\$3778.40

PLEASE RETURN A COPY OF THIS BILL WITH THE AMOUNT DUE WITHIN 30 DAYS TO:

SAN JOAQUIN VALLEY UNIFIED APCD
2700 "M" ST., SUITE 275
BAKERSFIELD, CA 93301

PAID

NOV 18 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

David L. Crow
Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233 2057

Northern Region

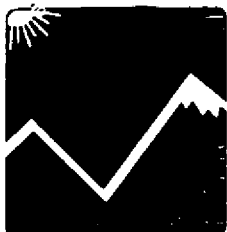
4210 Arden Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax: (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax: (209) 233 2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 861-3682 • Fax: (805) 861 2700



San Joaquin Valley
Unified Air Pollution Control District

AIR POLLUTION CONTROL DISTRICT FEES

October 13, 1993

BILL NO.: EB93-17

CHEVRON U.S.A., INC.
P.O. BOX 1392
BAKERSFIELD, CA 93302

RE: FINAL BILLING FOR EMISSION REDUCTION CREDIT (ERC) BANKING
CERTIFICATE FOR CHEVRON U.S.A., INC. AT HEAVY CENTRAL SOURCE, FOR THE
FOLLOWING ERC NUMBER(S): S-0037-1, S-0064-1 THRU S-0068-1

DESCRIPTION: VOC EMISSION REDUCTION CREDITS FOR INSTALLATION OF CASING
COLLECTION SYSTEMS INSTALLED PRIOR TO APRIL 25 1983. PROJECT# 920255 -- RCR

FEE SCHEDULE FOR ENGINEERING EVALUATION	FEE
92.25 HOURS AT \$48 PER HOUR	\$4428.00
CREDIT	-\$650.00
TOTAL DUE	\$3778.40

PLEASE RETURN A COPY OF THIS BILL WITH THE AMOUNT DUE WITHIN 30 DAYS TO:

SAN JOAQUIN VALLEY UNIFIED APCD
2700 "M" ST., SUITE 275
BAKERSFIELD, CA 93301

PAID
NOV 18 1993
SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

David L. Crow
Executive Director/Air Pollution Control Officer

1999 Tulumene Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Warren Avenue, Suite 130 • Modesto, CA 95301
(209) 545-7000 • Fax: (209) 545-6652

Central Region

1999 Tulumene Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax: (209) 233-2057

Southern Region

2700 "M" Street, Suite 275 • Bakersfield, CA 93301
(805) 551-3562 • Fax: (805) 861-2505



Chevron U.S.A. Production Company

P.O. Box 1392, Bakersfield, CA 93302

November 17, 1993

W. A. Brommelsiek
Manager—Environmental, Safety, Fire & Health
Western Business Unit

**ERC BANKING CERTIFICATE FINAL
BILLING PAYMENT INVOICE NOS.
EB93-16 & EB93-17**

Mr. David L. Crow
San Joaquin Valley Unified APCD
2700 "M" Street, Suite 275
Bakersfield, CA 93301

Sir:

This remittance is to cover District invoices EB93-16 and EB93-17 covering the final billing for Emission Reduction Banking Certificates for Chevron's Central and Western Heavy Oil Sources. Each invoice is in the amount of \$3778.40 and a separate check for each of the two invoices is included. Copies of the invoices are also attached.

Additionally, we would like to inform the District that we plan to pursue getting the EPA restrictions removed from these credits. Chevron will be contacting members of your Permit Services Department concerning this matter.

If you have any questions or need further information, please contact Mr. Kelly Skeels at (805) 633-4458.

Sincerely,

K.P. Skeels Joy

W. A. Brommelsiek

Attachments: Checks
Invoices (Copies)

A:\APCD\ERCINV.DOC

9/3/93

Information Regarding Chevron Project 4008-921117

I. Description of Project

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had negative emission profile credits set to zero.

This permit action reestablishes these emission reductions credits under provisions set forth in "Eligibility of Emission Reductions" in the banking rule adopted September 19, 1991.

II. Application Information

- A. Date application first received: **March 16, 1992**
- B. Date application was returned to applicant: **March 23, 1992**
- C. Date application received again: **November 17, 1992**
- D. Date application deemed complete: **December 11, 1992**
- E. Date Rule 411.1 was adopted requiring 93% control of steam drive well casing gas: **June 29, 1979**
- F. Date Rule 411.1 was changed from 93% VOC control of steam drive well casing gas to 99% VOC control: **August 27, 1984**
- G. Weighted uncontrolled emission factor for Central Stationary Source: **224.12 lbm/day VOC**
- H. Weighted uncontrolled emission factor for Western Stationary Source: **125.55 lbm/day VOC**

* This package of information was given to TEG for meeting with E.P.A. on 9/3/93

Information Regarding Chevron Project 4008-921117 (Con't)

I. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ATC Issue Date</u>	<u># of Wells</u>	<u>Startup Date</u>	<u>Uncontrolled Emission Test</u>
4008302B	S-0037-1	05/19/80	25	02/17/82	07/31/80
4008303B		05/19/80	48	02/17/82	08/04/80
4008329B	S-0064-1	05/19/80	6	02/17/82	08/07/80
4008330B		05/19/80	4	02/17/82	08/08/80
4008331A		05/19/80	8	02/17/82	08/01/80
4008305A	S-0065-1	05/19/80	13	01/14/82	07/29/80
4008306B		05/19/80	26	01/14/82	08/04/80
4008308B		05/19/80	34	02/17/82	07/29/80
4008310B		05/19/80	15	02/17/82	07/30/80
4008311A		05/19/80	28	02/17/82	11/22/79
4008333A		05/19/80	17	02/17/82	07/30/80
4008313B		S-0066-1	05/19/80	58	02/17/82
4008315A	05/19/80		13	01/12/82	08/06/80
4008316B	05/19/80		28	*03/20/84	08/05/80
4008322B	S-0067-1	05/19/80	31	*03/20/84	08/05/80
4008323A		05/19/80	40	*03/20/84	11/20/79
4008325A	S-0068-1	05/19/80	29	02/17/82	08/07/80
4008327A		05/19/80	3	02/17/82	08/06/80

J. Locations in the Western Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ATC Issue Date</u>	<u># of Wells</u>	<u>Startup Date</u>	<u>Uncontrolled Emission Test</u>
4008317B	S-0038-1	05/19/80	61	*02/01/82	08/12/80
4008318A	S-0056-1	05/19/80	37	*09/28/81	08/12/80
4008319B	S-0057-1	05/19/80	53	01/13/82	08/14/80
4008350A	S-0058-1	05/19/80	41	*09/28/81	08/13/80
4008345A	S-0060-1	05/19/80	38	*09/28/81	-
4008346B	S-0061-1	05/19/80	22	*09/28/81	-
4008347B	S-0062-1	05/19/80	40	*09/28/81	-
4008349C	S-0063-1	05/19/80	40	*09/28/81	-

* Earliest date PTO (with vapor recovery) existence could be verified.

Information Regarding Chevron Project 4008-921117 (Con't)

III. Procedure to re-establish previous emissions reductions set to zero by Rule 210.1 section 4.E. revision of June 22, 1987 (Surplus Test).

Please find attached document

11-18-87
01-10-89

**PROCEDURE TO RE-ESTABLISH PREVIOUS EMISSIONS REDUCTIONS SET TO ZERO
BY RULE 210.1, SECTION 4.E. REVISION OF JUNE 22, 1987**

Pursuant to Rule 210.1, Section 4.E., a stationary source with negative cumulative net emissions was reassigned a zero cumulative net emissions change on June 22, 1987. To re-establish any of these negative emissions, the source shall document that they are actual, surplus, permanent, quantifiable, and enforceable emissions reductions.

DOCUMENTING PREVIOUSLY CALCULATED EMISSIONS REDUCTIONS AS ACTUAL

A comparison of the emissions from the source before the emissions reduction took place and the emissions from the source after the emissions reduction took place will be used to re-establish the emissions reduction as actual. The burden of proof is upon the source to provide actual test data, actual fuel use data, etc., which establishes the amounts of emissions reductions which actually occurred. The emissions baseline to be used to establish emission rates before an actual reduction took place shall be the emissions levels for that source operation appearing in the 1979 NAP emissions inventory.

DOCUMENTING PREVIOUSLY CALCULATED EMISSIONS REDUCTIONS AS SURPLUS

The listing of previously calculated emissions rate changes for the stationary source provided by the Engineering Section of the District is used as the basis for documentation. The emissions reductions to be shown as surplus is selected and set to zero; i.e., it has already been used for purposes of New Source Review.

If the summation (excluding the reduction in question) of the emissions rate changed (since 9-12-79) never at any point equals or exceeds +150 pounds per day (+550 pounds per day for carbon monoxide), the selected emissions reduction is surplus provided that it was proposed before any rule changes were proposed which would have required the reduction.

Emissions reductions, including those re-established, represented by Banking Certificates, used as Section 5.B. mitigation (offsets), used for interpollutant tradeoffs, or made to comply with any federal, state, or district law, rules, order, or regulation are not surplus.

DOCUMENTING PREVIOUSLY CALCULATED EMISSIONS REDUCTIONS AS PERMANENT

The source operation's emissions rate documented to have occurred after the emissions reduction took place must be included as a condition on the source's Permit to Operate (except in the case of shutdown) to establish the emissions reduction as permanent.

DOCUMENTING PREVIOUSLY CALCULATED EMISSIONS REDUCTIONS AS QUANTIFIABLE

Actual fuel use data, actual operational data, actual source test data, and/or emissions factor(s) determined by the APCO to be representative of actual emissions shall be used to quantify the emissions reductions. If actual fuel use data and/or actual operational data do not exist, the emissions reduction is not quantifiable. If actual source test data and appropriate emissions factor(s) do not exist, the emissions reduction is not quantifiable.

DOCUMENTING PREVIOUSLY CALCULATED EMISSIONS REDUCTIONS AS ENFORCEABLE

The source operation's emissions rate documented to have occurred after the emissions reduction took place must be included as a condition on the source's Permit to Operate (except in the case of shutdown) to establish the emission reduction as enforceable.

FORMS\RESTBL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105-3901

Aug 11, 1993

In Reply A-5-1
Refer to: NSR 4-1

Sayed Sadredin, Director of Permit Services
San Joaquin Valley Air Pollution Control District
1999 Tuolomne Street, Suite 200
Fresno, CA 93721

Dear Mr. Sadredin:

EPA appreciates the opportunity to comment on Chevron U.S.A.'s request for VOC emission reduction credits for their western and central stationary sources in Kern County (application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1).

Our comments explain that because the controls which generated these credits are required by other regulations, the credits are not surplus, as required by the Emissions Trading Policy Statement (December 4, 1986, 51 FR 43814) and the Clean Air Act General Preamble (See 57 FR 13553). Because these credits are not legal, we will not be able to allow their use.

Our comments are enclosed. Please provide us with a copy of a copy of your final decision along with responses to all EPA and public comments. If you have any questions regarding these comments, please contact Jennifer Fox of our New Source Section at (415) 744-1257.

Sincerely,



Ken Bigos
Chief, Stationary Source Branch
Air and Toxics Division


Enclosure

cc: Ray Menebroker, CARB
Dave Crow, SJVUAPCD
Robert Rinaldi, SJVUAPCD Southern Office

Mr. Ken Bigos
December 21, 1993
Page 3

Thank you for your cooperation in this matter. Should you have any questions please telephone Mr. Robert Rinaldi of the Permit Services at (805) 861-3682.

Sincerely,

A handwritten signature in cursive script, appearing to read "Seyed Sadredin".

Seyed Sadredin
Director of Permit Services

SS:rcr

cc: Thomas Goff-Permit Services Manager/Southern Region

*Office Memorandum * Southern Region*
SJVUAPCD

DRAFT

*This was modified
to Seyed when
requesting final Public
notice*

TO : Robert Dowell
Director of Planning

DATE: date

FROM : Seyed Sadredin
Director of Permit Services

SUBJECT: Granting of Pre-1988 Emission Reduction Credits in
Southern Region

Chevron U.S.A., Inc. has been issued ERC banking certificates (see attached
copies):

ERC# S-0037-1

	<u>VOC (lb/qtr)</u>
1st Quarter	88349
2nd Quarter	89330
3rd Quarter	90312
4th Quarter	90312

ERC# S-0038-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18178
2nd Quarter	18380
3rd Quarter	18582
4th Quarter	18582

ERC# S-0056-1

	<u>VOC (lb/qtr)</u>
1st Quarter	19110
2nd Quarter	19322
3rd Quarter	19535
4th Quarter	19535

Robert Dowell
Director of Planning
date
Page 2

ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	29958
2nd Quarter	30290
3rd Quarter	30623
4th Quarter	30623

ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21822
2nd Quarter	22064
3rd Quarter	22307
4th Quarter	22307

ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	2381
2nd Quarter	2407
3rd Quarter	2433
4th Quarter	2433

ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	310
2nd Quarter	314
3rd Quarter	317
4th Quarter	317

Robert Dowell
Director of Planning
date
Page 3

ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	8940
2nd Quarter	9039
3rd Quarter	9138
4th Quarter	9138

ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3310
2nd Quarter	3347
3rd Quarter	3384
4th Quarter	3384

ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18763
2nd Quarter	18972
3rd Quarter	19181
4th Quarter	19181

ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

Robert Dowell
Director of Planning
date
Page 4

ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

As required by Rule 2301 - Emission Reduction Credit Banking subsection 4.1.2.3. please add these emissions to the 1987 inventory, or account for these emissions in revisions to the 1991 AQAP and annual tracking of emissions reductions.

TELEPHONE CONVERSATION

Date: 07/15/93

WITH: Lars Rydell

Title: Air Resources
Engineer

COMPANY: ARB

Phone: (805) 326-5375

APCD REPRESENTATIVE: Robert Rinaldi

TITLE: A.Q.E.II

SUBJECT OF CONVERSATION: Request for additional information for
Chevron project # 920255

SUMMARY OF CONVERSATION:

LR: Can you send the appendix and "Reestablish VOC Offsets for
Central and Western Sources" referenced in your evaluation?

RCR: There are many pages, about six hundred, I will try to get
them in the mail today.

We ended the conversation

TELEPHONE CONVERSATION

Date: 09/01/93

WITH: Kelly Skeels

Title: Environmental, Safety,
Fire & Health Air
Quality Group

COMPANY: Chevron U.S.A. Inc.

Phone: (805) 633-4458

APCD REPRESENTATIVE: Robert Rinaldi TITLE: A.Q.E.II

SUBJECT OF CONVERSATION: Verification of ERC's for installation of
casing collection systems from pre -
April 25, 1983 VOC reductions.

RCR - I am trying to verify the date PTO # 4008343B was issued do
you have any record of this?

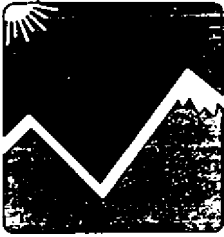
KS - Let me look into that.

Date: 09/02/93

KS - No record of completion of that project exists, therefore we
would like to withdraw request for banking those ERC's.

RCR - The corresponding ERC # to that PTO is S-59-1

We ended the conversation.



San Joaquin Valley
Unified Air Pollution Control District

CERTIFIED MAIL

December 21, 1993

Mr. W. A. Brommelsiek
Manager of ESF&H
Chevron U.S.A.
Post Office Box 1392
Bakersfield, California 93302

Re: **Project #: 920255**
Application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1
Project Description: Final Public Notice - VOC Emission Reduction Credits for Chevron U.S.A.,
Inc. for Installation of Casing Collection Systems Prior to April 25, 1983.

Dear Mr. Brommelsiek:

Pursuant to Rule 2201 and 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a final decision to approve the above-referenced project. Please find enclosed Emission Reduction Credit Certificates.

Please be aware EPA has commented that these credits are not surplus of federal RACT requirements and, therefore, cannot be used as offsets until they are RACT adjusted. The District does not concur with EPA on this matter at this time. EPA may challenge any project which uses these credits to gain approval. Though the District met with EPA to discuss the issue of RACT adjustments of pre-1988 reductions, to date this matter remains unresolved. As requested by EPA, the District did agree to advise you of EPA's objections to granting these credits by including copies of their comments with your certificates.

The District's finalized analysis of project 920255 and public comments are available for review at the Region office with engineer Mr. Robert Rinaldi, located at 2700 "M" Street, Suite 275, Bakersfield, Ca. 93301, (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:rcr
c: Thomas Goff
Enclosure



San Joaquin Valley
Unified Air Pollution Control District

December 21, 1993

Mr. Raymond Menebroker, Chief
California Air Resources Board
Project Review Branch - Stationary Source Division
2020 L Street
Sacramento, CA 95814

Re: **Project #: 920255**
Application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1
Project Description: Final Public Notice - VOC Emission Reduction Credits to Chevron U.S.A.
for Installation of Casing Collection Systems Prior to April 25, 1983.

Dear Mr. Menebroker:

Pursuant to Rule 2201 and 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a final decision to approve the above-referenced project.

The District's finalized analysis of project 920255, public comments, and copies of Emission Reduction Credit Certificates are available for review at the Region office with engineer Mr. Robert Rinaldi, located at 2700 "M" Street, Suite 275, Bakersfield, Ca. 93301, (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:rcr
cc: Thomas Goff
Enclosure

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbw/day	SO2 lbs/day	NO2 lbs/day	HC lbw/day	CO lbs/day	
4008077A	11/02/79	Retrofit scrubber on existing steam gen.	Cancelled and Replaced by 4008077C 8/15/80						
4008219A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008220A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008343A	12/06/79	Modification of FEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008096	12/27/79	T of L and correct A to C	0.00	0.00	0.00	0.00	0.00	0.00	
4008383B	02/15/80	Modify FEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008386B	02/15/80	Modify FEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008225	04/02/80	Substitute steam generator for # 4020001	0.00	0.00	0.00	0.00	0.00	0.00	
4008066	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008069	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008092	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008093	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008094	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008095	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008100	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008101	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008150	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008151	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008179	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008349B	04/30/80	Experimental EES scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	05/19/80	Retrofit scrubber to 4 existing S. G.s	Cancelled and replaced by 4008032C 7/22/81						
	05/19/80	4008032	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008033	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008080	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008084	-22.51	0.00	0.00	0.00	0.00	0.00	
4008034B	05/19/80	Modify existing scrubber; add 4 SG's	0.00	0.00	0.00	0.00	0.00	0.00	
4008065C	05/19/80	Mod. scrubber serving SG's 065, 078, 079	Cancelled and Replaced by 4008065E 11/14/84						
4008077B	05/19/80	Mod. scrubber serving SG 4008077	Cancelled and Replaced by 4008077C 8/15/80						
4008081B	05/19/80	Retrofit scrubber to 3 existing S. G.s	Cancelled and replaced by 4008081E 7/22/81						
	05/19/80	4008081	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008082	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008083	-22.51	0.00	0.00	0.00	0.00	0.00	
4008085A	05/19/80	Retrofit scrubber to 5 existing S. G.s	Cancelled and replaced by 4008085B 7/22/81						
	05/19/80	4008085	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008086	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008087	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008088	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008089	-22.51	0.00	0.00	0.00	0.00	0.00	
4008091A	05/19/80	Mod. scrubber serving SG 4008091	0.00	0.00	0.00	0.00	0.00	0.00	
4008167	05/19/80	62.5 MM BTU/hr steam generator	Cancelled and replaced by 4008167C 4/10/87						
4008167A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008168	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008168B 4/10/87						
4008169	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008169B 4/10/87						
4008170	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008170B 4/10/87						
4008171	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008171C 4/10/87						
4008172	05/19/80	27.5 MM BTU/hr Struthers steam generator	****	****	****	126.72	****	****	
4008173	05/19/80	27.5 MM BTU/hr C E Natco steam generator	****	****	****	126.72	****	****	
4008174	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008174B 4/10/87						
4008175	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008175B 4/10/87						

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day	
4008176	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008176B 4/10/87						
4008177	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008177C 4/10/87						
4008177A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008178	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008178B 4/10/87						
**** These Authorities to Construct remain invalid until particulate offsets have been provided.									
4008317B	05/19/80	Modify TEOR Operation serving 62 wells	Cancelled and replaced by 4008317E 9/28/81				-263.38		
S-0038-1	09/27/93	Re-establish Emission Reduction Credits for 4008317B					263.38		
4008318A	05/19/80	Modify TEOR Operation serving 37 wells	0.00	0.00	0.00	0.00	-414.60	0.00	
S-0056-1	09/27/93	Re-establish Emission Reduction Credits for 4008318A					278.73		
4008319B	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-457.01	0.00	
S-0057-1	09/27/93	Re-establish Emission Reduction Credits for 4008319B					399.26		
4008343B	05/19/80	Modify TEOR Operation serving 111 wells	0.00	0.00	0.00	0.00	-882.29	0.00	
4008345A	05/19/80	Modify TEOR Operation serving 38 wells	Cancelled and Replaced by 4008319D 5/12/82				-69.84		0.00
S-0060-1	09/27/93	Re-establish Emission Reduction Credits for 4008345A					69.84		
4008346B	05/19/80	Modify TEOR Operation serving 22 wells	Cancelled and Replaced by 4008346E 12/23/81				-295.00		0.00
S-0061-1	09/27/93	Re-establish Emission Reduction Credits for 4008346B					165.73		
4008347B	05/19/80	Modify TEOR Operation serving 40 wells	Cancelled and Replaced by 4008347C 6/20/84				-103.15		0.00
S-0062-1	09/27/93	Re-establish Emission Reduction Credits for 4008347B					103.18		
4008349C	05/19/80	Modify TEOR Operation serving 49 wells	0.00	0.00	0.00	0.00	-567.14	0.00	
S-0063-1	09/27/93	Re-establish Emission Reduction Credits for 4008349C					301.33		
4008350A	05/19/80	Modify TEOR Operation serving 41 wells	Cancelled and Replaced by 4008350C 9/28/81				-397.78		0.00
S-0068-1	09/27/93	Re-establish Emission Reduction Credits for 4008350A					308.86		
4008351A	05/19/80	Modify TEOR Operation serving 31 wells	0.00	0.00	0.00	0.00	-403.55	0.00	
4008352B	05/19/80	Modify TEOR Operation serving 66 wells	0.00	0.00	0.00	0.00	-567.05	0.00	
4008353A	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-580.00	0.00	
4008354A	05/19/80	Modify TEOR Operation serving 63 wells	0.00	0.00	0.00	0.00	-721.77	0.00	
4008357A	05/19/80	Modify TEOR Operation serving 18 wells	Cancelled and replaced by 4008375 12/22/83				-112.50		0.00
4008359B	05/19/80	Modify TEOR Operation serving 4 wells	Cancelled 1/6/83				-60.00		0.00
4008371	05/19/80	TEOR Operation serving 24 wells	Cancelled and replaced by 4008375 12/22/83				24.00		0.00
4008372	05/19/80	TEOR Operation serving 11 wells	0.00	0.00	0.00	0.00	7.20	0.00	
4008319C	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008346C	06/02/80	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008346E 12/23/81						0.00
4008351B	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008070A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008071A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008072A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008073A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008074A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008075A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008091A/B	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008081A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008077C	08/15/80	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008031A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008032B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008033A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008065D	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008066A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008080A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008081C	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008082A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008083A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008084A	09/15/80	O2 controller for Rule 425 compliance	0.60	0.00	0.00	-96.00	0.00	0.00
4008085B	09/15/80	O2 controller for Rule 425 compliance	0.60	0.00	0.00	-96.00	0.00	0.00
4008086A	09/15/80	O2 controller for Rule 425 compliance	0.60	0.00	0.00	-96.00	0.00	0.00
4008087A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008088A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008089A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008090A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008092A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008151A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008171A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008213B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008215B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008317C	10/09/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008318B	10/09/80	TEOR Operation - add H2S scrubber	0.60	0.00	0.00	0.00	0.00	0.00
4008034C	10/29/80	Retrofit Low-NOx FCC burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077D	11/13/80	O2 analyser/controller	0.60	0.00	0.00	0.00	0.00	0.00
4008077E	11/15/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008350B	02/12/81	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008350D 9/28/81				0.00	0.00
4008352B	02/12/81	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346D	02/13/81	TEOR Operation - add 3 wells	Cancelled and replaced by 4008346E 12/23/81				7.50	0.00
4008349D	02/17/81	TEOR Operation - add 2 wells	0.00	0.60	0.00	0.00	-21.60	0.00
4008026A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008027A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008028A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008070B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008071B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008072B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008073B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008074B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008075B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008077F	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008078A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008079A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008091C	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008096A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008097A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008098A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008099A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008102A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008213C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008214A	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008215C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008216B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008218A	03/11/81	O2 controller for Rule 425 compliance	Cancelled and replaced by 4008218C 2/19/82				0.00	0.00
4008225B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.38	0.00	0.00

55

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	EC lbm/day	CO lbm/day	
4008228A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00	
4008249A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00	
4008078B	06/12/81	PM/SO2 Scrubber substitution	Cancelled and replaced by 4008078C				0.00	0.00	
4008350C	06/18/81	TEOR Operation - add 1 well	Cancelled and replaced by 4008350D				2.50	0.00	
4008317D	07/01/81	TEOR Operation - modify H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008031B	07/22/81	Retrofit scrubber to 2 existing SG's							
		4008031	-22.51	0.00	0.00	0.00	0.00	0.00	
		4008090	-22.51	0.00	0.00	0.00	0.00	0.00	
4008032C	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00	
4008981E	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00	
4008804	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00	
4008805	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00	
4008806	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00	
4008370	09/04/81	TEOR Operation serving 44 wells	0.00	0.00	0.00	0.00	-83.40	0.00	
4008317E	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00	
4008318C	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00	
4008350D	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00	
4008349E	10/14/81	TEOR Operation - add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00	
4008183A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-36.94	0.00	0.00	
4008184A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008185A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008186A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008218B	10/23/81	Flue gas scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008184B	10/27/81	PM/SO2 scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00	
4008809	10/27/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00	
4008319D	12/09/81	Modify TEOR Operation	0.00	0.00	0.00	0.00	-12.50	0.00	
4008346E	12/23/81	Modify TEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008232A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.24	0.00	0.00	
4008233A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.24	0.00	0.00	
4008234A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008235A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008236A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008237A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008238A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008239A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008240A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008241A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008242A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-155.00	0.00	0.00	
4008243A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00	
4008350E	02/05/82	Modify TEOR Operation	Cancelled and replaced by 4008350E 1/12/83						
4008218C	02/19/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00	
4008810	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008811	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008812	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008813	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008814	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008815	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008816	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	
4008817	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60	

56

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	EC lbs/day	CO lbs/day	
4008034D	04/09/82	NOx limit for Rule 425 compliance	0.00	0.00	0.00	-56.00	0.00	0.00	
4008086B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008086E 4/08/86						
4008087B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008087E 4/08/86						
4008088B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008088E 4/08/86						
4008089B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008089E 4/08/86						
4008090B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008090E 4/08/86						
4008382D	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008384C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008385C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008386C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008059B	06/17/82	25.0 MM BTU/hr replacement S. G.	33.50	5.19	407.35	154.83	2.46	12.60	
	06/17/82	Surrender Permit to Operate 4008026	-35.56	-5.68	-443.90	-168.95	-2.77	-13.67	
4008386C	11/05/82	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008350E	01/12/83	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00	
4008385D	06/13/83	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008346F	08/16/83	Modify TEOR Operation	0.00	0.00	0.00	0.00	44.10	0.00	
4008385E	09/07/83	Modify TEOR operation; replace compressor	0.00	0.00	0.00	0.00	0.00	0.00	
4008810A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008811A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008812A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008813A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008814A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008615A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008816A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008817A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008384D	12/03/83	Modify TEOR Operation; add 3 wells	Cancelled and replaced by 4008384F 6/18/84						
4008347C	01/02/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	2.14	0.00	
4008382F	01/03/84	Modify TEOR Operation; remove compressor	0.00	0.00	0.00	0.00	0.00	0.00	
4008375	01/30/84	TEOR Operation replacing 4008357 & 371	0.00	0.00	0.00	0.00	0.00	0.00	
4008436A	02/13/84	Modify tank setting vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00	
4008384E	04/04/84	Modify TEOR Operation	Cancelled and replaced by 4008384F 6/18/84						
4008385F	05/23/84	Modify TEOR Operation H2S scrubbing syst.	0.00	0.00	0.00	0.00	0.00	0.00	
4008384F	06/18/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	20.20	0.00	
4008070C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008071C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008072C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008073C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008074C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008031C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008032D	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008033B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008065E	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008077F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008078C	11/14/84	Set Rule 424 sulfur limit for this S. G.	9.80	0.00	0.00	0.00	0.00	0.00	
4008080B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008081F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008082B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008083B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008084B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbz/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day	
4008085D	11/14/84	Set Rule 424 sulfur limit for this S. G.	Cancelled and replaced by 4008085F 4/08/86						
4008086C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008087C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008088C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008089C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008090C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008093A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008094A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008095A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008150A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008184C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008185B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008186B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008384G	12/12/84	Mod. TEOR Operation: add 10 wells	0.00	0.00	0.00	0.00	51.64	0.00	
4008385G	12/12/84	Mod. TEOR Operation: add 18 wells	0.00	0.00	0.00	0.00	2.34	0.00	
4008386G	12/12/84	Mod. TEOR Operation: add 14 wells	0.00	0.00	0.00	0.00	1.82	0.00	
4008377	01/03/85	TEOR Operation serving wells	0.00	0.00	156.00	0.00	179.00	0.00	
4008225C	05/29/85	Limit steam generator fuel consumption	-6.60	-1.90	-14.20	-28.10	-0.50	-2.30	
	05/29/85	Excess Galf Rule 424 emission reductions		-159.17	-1029.90				
4008318D	06/12/85	Mod. TEOR Operation: add 20 wells	Cancelled and replaced by 4008318D 8/27/85						
4008384H	06/22/85	Mod. TEOR Operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00	
4008814C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008815C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008816C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008817C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008382	06/28/85	TEOR Operation serving 107 S. D. wells	0.00	0.00	0.00	0.00	219.80	0.00	
4008031D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008031P 4/08/86						
4008032E	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008033C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008080C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008081G	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008082C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008083C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008084C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008086D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008086F 4/08/86						
4008087D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008087F 4/08/86						
4008088D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008088F 4/08/86						
4008089D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008089F 4/08/86						
4008090D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008090F 4/08/86						
4008093B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00	
4008094B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00	
4008814B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008815B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008816B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008817B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008819	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008820	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008821	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008822	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
	07/22/85	Excess Rule 424 sulfur compound reductions		-122.74	-1420.35			
4008065D	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008070E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008071E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008072E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008073E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008074E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008092B	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008810B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008811B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008812B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008813B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008819A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008820A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008823	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008824	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008825	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008826	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008827	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008828	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008829	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008384H	07/22/85	Modify TEOR operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008378	08/26/85	New TEOR operation # 52 serving 20 wells	0.00	0.00	0.00	0.00	103.82	0.00
4008317F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-81.60	0.00
4008318E	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	69.10	0.00
4008346G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008347D	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-32.80	0.00
4008349G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-244.70	0.00
4008350F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-63.20	0.00
4008351C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-42.60	0.00
4008352C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-26.00	0.00
4008370A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008375A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008093C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008094C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008379	08/30/85	New TEOR operation serving 20 wells	0.00	0.00	0.00	0.00	62.80	0.00
4008213D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008218D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008219D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008220B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008225B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008031E	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008031G 4/08/86					
4008032F	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008033D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008065F	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077H	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008080D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008081H	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008082D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00

59

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day	
4008083D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008084D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008085E	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008085G 4/08/86						
4008091D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008093D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008094D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008095B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008151B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008167B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008167C 4/10/87						
4008168A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008168B 4/10/87						
4008169A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008169B 4/10/87						
4008170A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008170B 4/10/87						
4008171B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008171C 4/10/87						
4008174A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008174B 4/10/87						
4008175A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008175B 4/10/87						
4008176A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008176B 4/10/87						
4008177B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008177C 4/10/87						
4008178A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008178B 4/10/87						
4008184D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008185C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008186C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008384I	02/20/86	Replace air cooled heat exchanger	0.00	0.00	0.00	0.00	0.00	0.00	
4008070F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008071F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008072F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	3.91	0.00	
4008073F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008074F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008085F	04/08/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00	
4008031G	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008031F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008085G	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008087E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008087F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008088E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008088F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008089E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008089F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008090E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008090F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008451	05/01/86	Tank battery vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00	
4008092C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008151C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008318F	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	15.24	0.00	
4008347E	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	138.88	0.00	
4008350G	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	19.44	0.00	
4008351D	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	21.44	0.00	
4008319E	09/26/86	Modify TEOR operation; add 23 wells	0.00	0.00	0.00	0.00	62.36	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008349H	10/27/86	Modify TEOR operation; add 12 wells	0.00	0.00	0.00	0.00	37.66	0.00
4008317H	10/28/86	Modify TEOR operation; add 14 wells	0.00	0.00	0.00	0.00	43.96	0.00
4008352E	10/28/86	Modify TEOR operation; add 11 wells	0.00	0.00	0.00	0.00	34.54	0.00
4008027B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008028B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008031H	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008032G	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008033E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008034E	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.06	0.00	0.00	0.00
4008039C	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008065G	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008066C	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.01	0.00	0.00	0.00
4008069A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008070G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008071G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008072G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008073G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008074G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008075D	04/10/87	Change S. G. conditions of approval	-21.12	-9.92	-37.43	0.00	0.00	0.00
4008077I	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008078D	04/10/87	Change S. G. conditions of approval	0.00	0.00	23.55	0.00	0.00	0.00
4008079B	04/10/87	Change S. G. conditions of approval	0.00	0.00	8.81	0.00	0.00	0.00
4008080P	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008081I	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008082E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008083E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008084E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008085J	04/10/87	Change S. G. conditions of approval	-10.77	7.92	88.92	0.00	0.00	0.00
4008086G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008087G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008088G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008089G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008090G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008091H	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008092D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	53.86	0.00	0.00	0.00
4008093E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008094E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008095C	04/10/87	Change S. G. conditions of approval	-11.90	0.00	54.01	0.00	0.00	0.00
4008096B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008097B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008098B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008099B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008100A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008101A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008102B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008150B	04/10/87	Change S. G. conditions of approval	-6.04	0.00	23.55	-54.91	0.00	0.00
4008151D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	20.53	0.00	0.00	0.00
4008167C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.40	30.26
4008168B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26

61

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008169B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008170B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008171C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	33.18
4008174B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008175B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008176B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008177C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008178B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008179A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008184E	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008185D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008186D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008213E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-55.67	-74.88	-1.25	-6.24
4008214B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-305.28	-74.88	-1.25	-6.24
4008215D	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008216C	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008218E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-78.48	-74.88	-1.25	-6.24
4008219E	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008220C	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008225E	04/10/87	Change S. G. conditions of approval	-27.76	-3.37	-24.55	-62.90	-1.02	-5.24
4008228B	04/10/87	Change S. G. conditions of approval	-34.63	0.58	-34.98	-74.88	-1.68	-6.64
4008232B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008233B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008234B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008235B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008236B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008237B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008238B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008239B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008240B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008241B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008242B	04/10/87	Change S. G. conditions of approval	-36.91	-8.23	-28.51	-117.00	-2.55	-13.00
4008243B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008249B	04/10/87	Change S. G. conditions of approval	-36.79	0.60	-32.18	-74.88	-1.40	-7.10
4008810C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008811C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008812C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008813C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008814D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008815D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008816D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008817D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008819B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008820B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008821A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008822A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008823A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008824A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008825A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00

Chevron U. S. A. -Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008826A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008827A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008828A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008829A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
	04/10/87	Surrender Permit to Operate # 4008183	-28.23	-11.27	-353.93	-113.66	-1.89	-9.47
	04/10/87	Surrender Permit to Operate # 4008187	-32.04	-12.80	-401.76	-96.77	-2.15	-10.75
4008810D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008812D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008819C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008820C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008821B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008822B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008071I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008072I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008073I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008074I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008092X	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151P	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008071H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008072H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008073H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008074H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008482	05/21/87	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008073H	05/22/87	Mod. S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008810E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008811E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008812E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008813E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008814P	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008815P	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008816P	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008817P	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008819D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008820D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008821C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008822C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008823B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008824B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008825B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008826B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008827B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008828B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008829B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008502	07/28/87	LPG truck unloading rack	0.00	0.00	0.00	0.00	24.15	0.00
4008503	07/28/87	LPG truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008377A	09/03/87	TEOR modification; add 18 wells	0.00	0.00	-156.00	0.00	56.52	0.00
4008027C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008028C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008031I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008032H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008033F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008034F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008059D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.30	0.00
4008065H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008066F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008069B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008075E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008077J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008078E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008079C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008080G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008081J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008082F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008083F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008084E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008085K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008086I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008087I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008088I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008089I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008090I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008091J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008092G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008093G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008094G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008095E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008096C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008097C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008098C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008099C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008100B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008101B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008102C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008150C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.23	0.00
4008151G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008167D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008168D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008170C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008171D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008172A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbe/day	SO2 lbe/day	NO2 lbn/day	HC lbe/day	CO lbn/day
4008173A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008174C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008175C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.75	0.00
4008176C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008177D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008178C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008179B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008184F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008185E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008186E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008195A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008202B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008203A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008204A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008205A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008206A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008207A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008208A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008213G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008214D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008215F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008216E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008218G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008219G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008220E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008225G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.15	0.00
4008228D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	3.84	0.00
4008232D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008233C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008234C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008235C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008236C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008237C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008238C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008239C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008240C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008241C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008242D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008243D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008249D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008285A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008286A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008289A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008070X	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008071X	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008072X	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008073X	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008074X	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008075F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00

65

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Ho.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008077K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008078P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091L	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091M	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008319P	10/08/87	Modification of existing TEOR operation	0.00	0.00	0.00	0.00	100.48	0.00
Total adjustments from 9/12/79 to 6/22/87 =			-44.21	164.71	-749.62	-3756.58	-1680.31	3025.30

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbw/day	SO4 lbw/day	SO2 lbw/day	NO2 lbw/day	HC lbw/day	CO lbw/day
4008091P	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095F	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008484		Permit existing unpermitted tank	Denied 5/17/88					
4008485		Permit existing unpermitted tank	Denied 5/17/88					
4008486		Permit existing unpermitted tank	Denied 5/17/88					
4008487		Permit existing unpermitted tank	Denied 5/17/88					
4008488		Permit existing unpermitted tank	Denied 5/17/88					
4008220P	05/23/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008489		Permit existing unpermitted tank	Denied 6/6/88					
4008490		Permit existing unpermitted tank	Denied 6/6/88					
4008491		Permit existing unpermitted tank	Denied 6/6/88					
4008492		Permit existing unpermitted tank	Denied 6/6/88					
4008493		Permit existing unpermitted tank	Denied 6/6/88					
4008494		Permit existing unpermitted tank	Denied 6/6/88					
4008495		Permit existing unpermitted tank	Denied 6/6/88					
4008098D	08/17/88	Add multiple locations for steam gen.	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008347P	10/19/88	TEOR modification; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008451A	10/19/88	Tank bat. mod.; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008171E	10/28/88	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008096D	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008213H	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008504	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008505	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008506	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008507	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008508	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008509	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008510	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008511	02/24/89	5,000 bbl capacity FWKO tank # T-1	0.00	0.00	0.00	0.00	0.84	0.00
4008512	02/24/89	2,000 bbl capacity LACT tank # T-2	0.00	0.00	0.00	0.00	0.81	0.00
4008513	02/24/89	2,000 bbl capacity reject tank # T-3	0.00	0.00	0.00	0.00	0.09	0.00

EMISSION ESTIMATES SIX COTR/VRS (PART 1/1)

FACILITY & TANK ID:													GFR FAC. = 0.0946				
SIX COTR	KCAPCD	TANK	TANK	TANK	FLASH (F)	FLUID	HEATED	TANK INS-	MAXIMUM	TANK	TANK	TANK	GROSS	LIQUID	GAS/FLUID	TRUE	VAP
TANK	CONSTR.	CONST	TYPE	VENT (V)	LEVEL	H=YES	INSULATED	TANK	DIAMETER	HEIGHT	CAPACITY	THRU-PUT	AP1	RATIO	VAPOR	MOLEC	WEIG
I.D.	STATUS	DATE	FWKD ETC.	BOTH (B)	C or V	N=NO	I=YES/N=NO	TEMP-F	(ft)	(ft)	BBL	(BBL/D)	GRAVITY	SCF/BBL	PRESSURE	WEIG	
T-10A GAS BOOT	N/A	E W/VRS	A	BOOT	F	C	N	N	200	15.3	8.0	262	909090	19	0.0958	5	
T-10B PROD. SPLIT	4224001	E W/VRS	A	FS		C	N	N	200	15.3	8.0	262	909090	19	0	5	
T-11 FWKD TK	4224002	E W/VRS	A	FWKD		C	N	I	200	55.0	24.0	10150	909090	19	0	5	
T-12 FWKD TK	4224003	E W/VRS	A	FWKD		C	N	I	200	55.0	24.0	10150	909090	19	0	5	
T-13 FWKD TK	4008549	F W/VRS	A	FWKD		C	N	I	200	55.0	24.0	10150	909090	19	0	5	
T-14 FWKD TK	4008550	F W/VRS	A	FWKD		C	N	I	200	55.0	24.0	10150	909090	19	0	5	
T-19 SURGE TO KDRH	4224004	E W/VRS	A	SURGE		C	N	I	200	15.3	8.0	262	909090	19	0	5	
T-20 EMUL. SPLIT	4224005	E W/VRS	A	FS		C	N	I	200	15.3	8.0	262	909090	19	0	5	
T-21 WASH TK	4224006	E W/VRS	A	WASH		C	N	I	200	44.5	24	6644	909090	19	0	5	
T-22 WASH TK	4224007	E W/VRS	A	WASH		C	N	I	200	44.5	24	6644	909090	19	0	5	
T-23 WASH TK	4224008	E W/VRS	A	WASH		C	N	I	200	55.0	24.0	10150	909090	19	0	5	
T-24 WASH TK	4008551	P W/VRS	A	WASH		C	N	I	200	44.5	24	6644	909090	19	0	5	
T-40 LACT	4008552	E W/VRS	A	LACT		V	N	I	200	39.0	24.0	5103	50000	19	0	5	
T-41 REJECT (010)	4008553	E W/VRS	A	REJECT		V	N	I	200	39.0	24.0	5103	50000	19	0	5	
T-42 SLOP	4224011	E W/VRS	A	SLOP		V	N	I	200	30.0	16.0	2013	10000	19	0	5	
T-30 WATER SPLIT	4224012	E W/VRS	A	FS		C	N	N	200	15.3	8.0	262	859090	19	0	5	
T-31 WTR-BAL	4224013	E W/VRS	A	WATER-BAL		C	N	N	200	44.5	24	6644	859090	19	0	5	
T-31A WTR-BAL	4008563	F W/VRS	A	WATER-BAL		C	N	N	200	44.5	24	6644	859090	19	0	5	
T-32 WTR-BAL	4224014	E W/VRS	A	WATER-BAL		C	N	N	200	44.5	24	6644	859090	19	0	5	
T-32A WTR-BAL	4008564	F W/VRS	A	WATER-BAL		C	N	N	200	44.5	24	6644	859090	19	0	5	
M-1 WEMCO	NO PERMIT	E W/VRS	A	WEMCO		C	N	N	200	21.5	8.0	1	859090	19	0	5	
M-2 WEMCO	NO PERMIT	E W/VRS	A	WEMCO		C	N	N	200	21.5	8.0	1	859090	19	0	5	
M-3 WEMCO	NO PERMIT	F W/VRS	A	WEMCO		C	N	N	200	21.5	8.0	1	859090	19	0	5	
T-34 WEMCO SKIM	4008554	F W/VRS	A	SKIM		V	N	N	200	21.5	16.0	1034	52000	19	0	5	
T-35 WEMCO SKIM	4008555	F W/VRS	A	SKIM		V	N	N	200	21.5	16.0	1034	52000	19	0	5	
T-36 DRAIN (014)	4008565	E W/VRS	A	DRAIN		V	N	I	200	21.5	8.0	517	24000	19	0	5	
T-37 DRAIN (015)	4008566	E W/VRS	A	DRAIN		V	N	I	200	21.5	8.0	517	24000	19	0	5	
T-51 SLUDGE TK	4008558	F W/VRS	A	TREAT		V	N	I	200	21.5	8.0	517	5000	19	0	5	
T-52 SLUDGE TK	4008559	F W/VRS	A	TREAT		V	N	I	200	21.5	8.0	517	5000	19	0	5	
T-53 SLD RECYCLE	4008560	F W/VRS	A	TREAT		V	N	I	200	15.3	8.0	262	5000	19	0	5	
T-54 SLD RECYCLE	4008561	F W/VRS	A	TREAT		V	N	I	200	15.3	8.0	262	5000	19	0	5	
T-55 DRAIN TANK	NO PERMIT	F W/VRS	A	DRAIN		V	N	I	200	9.0	8.0	91	2500	19	0	5	
T-56 COND. TANK	NO PERMIT	F W/VRS	A	STORAGE		V	N	N	200	21.5	8.0	517	500	19	0	5	
T-57 HOMOGENIZING	4008562	F W/VRS	A	TREAT		V	N	I	200	15.3	8.0	262	5000	19	0	5	
T-58 SLOP OIL	4008557	F W/VRS	A	TREAT		V	N	I	200	21.5	8.0	517	2500	19	0	5	
T-59 SLOP OIL	4008556	F W/VRS	A	TREAT		V	N	I	200	30.0	16.0	2013	2500	19	0	5	
T-60 TRTR BLOWDOWN	4008552	F W/VRS	A	BLOW DOWN		V	N	I	200	21.5	16.0	1034	2500	19	0	5	

4008602
603
604

605
606

Hand
JMS
DT=N
no HMI
DT=78

sdm
analysis



Chevron U.S.A. Production Company
P.O. Box 1392, Bakersfield, CA 93302

April 29, 1993

W. A. Brommelsiek
Manager-Environmental, Safety, Fire & Health
Western Business Unit

**EMISSION REDUCTION CREDITS FOR
INSTALLATION OF CASING
COLLECTION FROM PRE- APRIL 25,
1983 VOC REDUCTIONS
APPLICATION #'S 4008302/501
4008317/501 PROJECT # 921117**

Mr. Thomas E. Goff
SJVUAPCD - Southern Zone
2700 "M" Street, Suite 275
Bakersfield, Ca 93301

RECEIVED

APR 30 1993

SAN JOAQUIN VALLEY UNIFIED
APCD-SOUTHERN REGION

Attn.: Mr. Robert Rinaldi

Gentlemen:

This correspondence is regarding the outstanding issue of whether or not ATC alphas A, B, & B for corresponding PTOs 4008327, 329, & 330 were implemented. The original ATCs were issued for casing collection systems and the alphas in question are all to include the incineration of the casing collection gas in existing steam generators. Our records indicate that two PTOs (4008329, 330) were issued under the original ATC without the condition to incinerate and that a PTO for 4008327 was never issued under the original ATC. Subsequent PTOs for all three systems included the condition to incinerate. However, no alphas were added to the original PTO numbers. The attached table gives a chronological history for each ATC/PTO in question. Copies of the PTOs and ATCs are also attached.

If you have further questions please contact Mr. Kelly Skeels at (805) 633-4458.

Sincerely,
K P Skeels For/
W. A. Brommelsiek

KPS

VOCERC2

This table is a chronological listing of the ATCs/PTOs in question.

<i>PTO/ATC</i>	<i>Date</i>	<i>Comments</i>
<i>4008327</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>ATC Alpha A</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>Includes incineration</i>
<i>4008329</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>PTO</i>	<i>2/1/79</i>	<i>Did not include incineration</i>
<i>ATC Alpha B</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>Includes incineration</i>
<i>4008330</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>PTO</i>	<i>2/1/79</i>	<i>Did not include incineration</i>
<i>ATC Alpha B</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>To include incineration</i>

K I COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HERBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



R3F 3 lines

4008327

FEED Well head casing vapor recovery system CC-1-31


w/1 ea heat exch, gas/liq sep, vapor cond, mist elim. Skrin.

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-31 serving 3 wells: the following wells 1-1A, 1-3A, and 3-1A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 80%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Farnsworth, P.E.
Air Sanitation Engineer III

9

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



R3F Oliver

4008327A

FEQD Add steam generator firebox noncondensable vapor incineration system CC Syst CC-1-31 serving 3 wells

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent

Vapor Recovery System (ID #CC-1-31) serving the following 3-wells: ^{R3F!} 1-1A, 1-3A, and 3-1A,

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

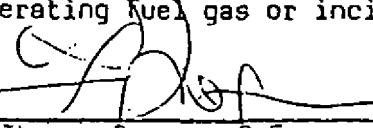
- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. ✓
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume. ✓
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

R3F5

SPECIAL CONDITIONS:

- 2. Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter.
- 3. Yearly Permit renewal testing shall be conducted during the months of June, July and August.
- 4. Sampling is not required of a correctly operating fuel gas or incineration system.

R3F 2

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

PERMIT TO OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008327

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 31, T28S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-1-31

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. B. [Signature]

Period: 2/1/82 to 2/1/83

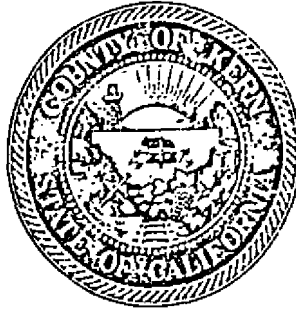
EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-1-31, including the following equipment:

- 3 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- 1 _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- 1 _____ vapor condensor(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-3-32 serving the following wells, 3-1A, 5-1A, 7-1A, 6-3, 5-3A and 4-2, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

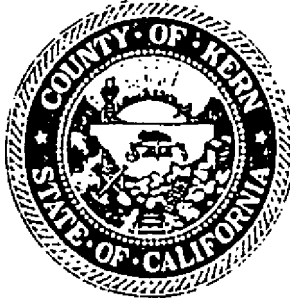
By

Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329A NOT IMPLEMENTED


EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 1-1A, 1-3A, 1-5A and 41.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND561-1
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND561-1
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND561-1

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329/B

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CC-3-32) serving the following 8 wells: 3-1A, 3-3A, 5-1A, 5-3A, 6-3A, 7-1A, 3³³, and 6-2A PER T. Paxson 6/24/80

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

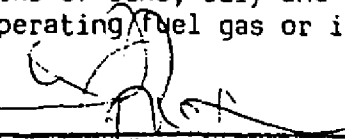
OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

PERMIT
TO
OPERATE



Number: 4008329

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A.

For equipment located at: Sec. 32, T28S, R28E

Equipment or Process Description: Well Vent Vapor Recovery System CC-3-32

OPERATIONAL CONDITIONS LISTED ON REVERSE OF PERMIT.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

Leon M. Hebertson, M.D.
Air Pollution Control Officer

By: 

For Period: 2-1-79 To 2-1-80

EQUIPMENT DESCRIPTION: Well Vent Vapor Recovery System serving the following wells 3-1A, 3-3A, 5-1A, 5-3A, 6-3, 7-1A, including the following equipment and design specifications:

A. Production well vent vapor collection and design specifications:

B. One heat exchanger(s),
C. One gas/liquid separator(s),
 gas compressor(s),

D. One vapor condenser(s) X with mist eliminator,
 air-cooled vapor condenser(s),

 Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than %.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

PERMIT TO OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008329

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 32, T28S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-3-32

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. B. Coy

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-3-32 w/H2S Control System, including the following equipment:

- 8 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- _____ vapor condensor(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008330

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-32 serving the following wells, 1-3A, 1-1A, 41 and 1-5A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



NOT IMPLEMENTED

4008330A

EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 31A, 3-3A, 5-1A, 5-3A, 6-3 and 7-1A.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND 563-2.
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND 563-2.
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND563-2

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By: _____

Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008330 **B**

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CC-1-32) serving the following 4 wells: 1-1A, 1-3A, 1-5A, and 41

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s), (listed on KCAPCD #4008328)
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

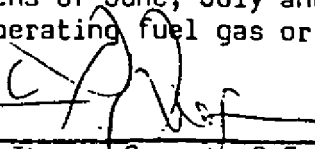
OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By


Thomas Paxson, P.E.

Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

PERMIT TO OPERATE



Number: 4008330

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A.

For equipment located at: Sec. 32, T28S, R28E

Equipment or Process Description: Well Vent Vapor Recovery System CC-1-32

OPERATIONAL CONDITIONS LISTED ON REVERSE OF PERMIT.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

Leon M. Hebertson, M.D.
Air Pollution Control Officer

REVOCALE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By: _____

For Period: 2-1-79 To 2-1-80

EQUIPMENT DESCRIPTION: Well Vent Vapor Recovery System serving the following wells 1-1A, 1-3A, 1-5A, 41, including the following equipment and design specifications:

- A. Production well vent vapor collection and design specifications:
- B. One heat exchanger(s),
- C. One gas/liquid separator(s),
gas compressor(s),
- D. One vapor condenser(s) with mist eliminator,
air-cooled vapor condenser(s),
- Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

- 1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than %.
- 2. Final vapor condenser shall utilize exhaust gas temperature indicator.
- 3. Mist eliminator shall be maintained in optimum operating condition.
- 4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
- 5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT
TO
OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008330

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.

For equipment located at: Sec. 32, T28S, R28E

Equipment or Process Description: Thermally Enhanced Oil Recovery Operation #CC-1-32

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Rey

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-1-32 w/H2S Control System, including the following equipment:

- 4 Steam drive wells _____ cyclic wells,
- 1 Production well vent vapor collection piping network,
- _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- _____ vapor condensor(s), _____ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) _____ heat treater(s) _____ boiler(s), _____ flare(s).
- 1 Condensate storage vessel(s)

TO: Leonard Scandura

SEPT. 6, 1994

FROM: T. Goff

by Friday 9/9 12:00pm

RE: UNIFORM RESPONSES TO ARB ERC AUDIT PRELIMINARY REPORT

Please prepare your responses to ARB's comments in the following format so that they may be easily merged into a uniform response. Begin with a succinct description of the emission reduction (and the banking project if different). State the facts clearly and directly. Do not add extra explanation or discussion in the response. If you just must, these can be added in additional paragraph(s) following the factual response.

ARB COMMENT #3 - Applications for ERC's not timely.

applies to ARCO ~~4222028/501~~ ⁴²⁰³¹² and ARCO 920289 S-1135

- 1) Date application filed. *Xerox Appl*
- 2) Timeframe provided in rule for filing application (cite rule number, section, and date of rule adoption/amendment).
- 3) Date reduction occurred.
- 4) Time elapsed from date reduction occurred to date application filed.
- 5) Date of preliminary decision to approve.
- 6) Date of ERC issuance.

ARB COMMENT #4a1 - Inadequate justification in application review for moving off two year period preceding the reduction.

applies to Aimcor 870401 S-2517

- ✓ 1) Date application filed. ①
- ✓ 2) Date reduction occurred. ②
Timeframe provided in rule for baseline period (cite rule number, section, and date of rule adoption/amendment) ③
Timeframe used in application review as baseline period. ④
Justification given in application review for alternate baseline period. ⑤
Additional information in file justifying alternate baseline period. ⑥
- ✓ 3) Date of preliminary decision to approve ⑦
- ✓ 4) Date of ERC issuance ⑧

ARB COMMENT #4c1 - No adjustment made to reflect prohibitory rules in effect at time reduction occurred.

applies to Pacific Energy Resources 920218 S-2559

- 1) Date application filed.
- 2) Date in prohibitory rule for complying (cite rule number, section, and date of rule adoption/amendment).
- 3) Date reduction occurred.

4 Date of preliminary decision to approve.
5 Date of ERC issuance.

ARB COMMENT #8 - Insufficient permit conditions to demonstrate enforceability and permanence of the reductions.
applies to ARCO 920289

Date application filed.

Date reductions occurred.

Date ATC and/or PTO authorizing/implementing reductions issued.

List conditions "validating" reductions - cite permit number and conditions number (attach a zerographic copy).

PRELIMINARY DRAFT

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

Emission Reduction Credit Review

The purpose of this report is to summarize the findings of a three agency effort in evaluating the credibility of Emission Reduction Credits (ERC) issued by the San Joaquin Valley Unified Air Pollution Control District (District). A review of approximately 110 District ERC banking actions was performed July 11-29, 1994 by way of a cooperative effort between the Air Resources Board (ARB), U.S. Environmental Protection Agency (EPA), and the District. The findings contained in this report are based on the review of individual banking actions, District rules, formal District policies, District staff implementation, consistency between Southern, Central, and Northern Zones, and overall District implementation of the banking program.

BACKGROUND

Since the adoption and implementation of a Banking Rule by the San Joaquin Valley Unified Air Pollution Control District, banking transactions have occurred at a rate far exceeding activity in any other District in the State. In addition, a large percentage of emission reductions banked under the District's rule are from reductions that occurred prior to 1988. To date, Emission Reduction Credit Certificates have been issued for 7217 tons/year of NOX, 8711 tons/year of VOC, 574 tons/year of PM10, 3082 tons/year of SOX, and 25,449 tons/year of CO. The amounts certified in the District's bank are twice as large as any other district in the State for PM10, VOC, and SOX. For NOX and CO the amounts are three and twenty times larger, respectively.

As a result of concerns expressed by the EPA and ARB regarding the validity of ERCs issued by the San Joaquin Valley Unified Air Pollution Control District, the District and several representatives of industry agreed to a joint District/ARB/EPA/industry-supported evaluation of the District's banking program.

PROCEDURE

Several meetings between EPA, ARB, and District staff were held to develop a workplan for carrying out the evaluation of the District's banking program. The workplan established the objectives and procedures for carrying out the program evaluation, and included a schedule for public comment and completion of the evaluation. A copy of the workplan is included in Appendix A.

PRELIMINARY DRAFT

PRELIMINARY DRAFT

<u>Applicant</u>	<u>Project #</u>	ERCs ISSUED (Tons/year)		
		<u>NOX</u>	<u>VOC</u>	<u>SOX</u>
Unocal	930413	22.6	0	0
Chevron	920255	0	1428	0
Elk Hills	920066	0	386.6	0
Elk Hills NPR #1	930844	0	211.8	0
SWEPI	930411	534.3	0	0
Shell Western	920323	0	17.1	0
Shell Western	921026	813	0	0
Chevron	920319	47	26.8	0
Mobil	911203	0	11.4	0
Shell Western	920207	0	493	0
ARCO	920289	117.7	0	0
Sunset Pipeline	2058000	0	19.5	0

3)

A number of projects were identified where applications for ERCs were filed after timelines established in District rules. District rules contain provisions that establish specific timelines for applying for ERCs after a reduction occurs. If an applicant fails to file an application for ERCs within the established timeline, any potential for generating emission reductions is lost. Fifteen projects were identified where there was evidence that the application filing period had been missed.

<u>Applicant</u>	<u>Project #</u>	ERCs ISSUED (Tons/year)		
		<u>NOX</u>	<u>VOC</u>	<u>SOX</u>
ARCO	920289	118	0	0
ARCO-ORYX	42220291501	0	89	0

PRELIMINARY DRAFT

PRELIMINARY DRAFT

Chevron	920319	47	27	0
→ Chevron	920255	1428	0	0
Duncan Enterprises	930022	.8	.05	.006
Gallo	920370	8	0	0
Marathon Oil	930333	19	48	.02
Oberti Olive	920282	5.0	.09	.02
Shell Western	4013-920929	102	0	0
Shell Western	921026	813	0	0
Spreckles Sugar	N-0019	94	.2	0
Shell Western	C-0039-2	66	0	0
TEXACO	9001009	430	6	57
TEXACO Refinery	2007130	502	261	94
UNOCAL Corp.	920198	36	0	0

4) District rules specify the methods for determining the quantity of emissions that are eligible for banking provided that they were applied for in a timely manner and are surplus, quantifiable, real, permanent, and enforceable. Review of the ERC applications showed that for a large number of projects, many of the Districts policies and procedures maximized the quantity of emissions available for banking. There are three categories of issues related to the District's banking program that maximize ERCs; the first of which involves the baseline period, the second is the use of emission factors, and lastly failure to adjust for prohibitory rules or control measures.

a) Baseline

1. Using highest production level without justification. For eleven identified projects, a baseline period other than the two years preceding the reduction were used. The engineering analyses did not adequately justify why the two year period

PRELIMINARY DRAFT

PRELIMINARY DRAFT

3. In some instances projects were not adjusted for RACT requirements contained in the districts rules. Four projects were identified as needing to be RACT adjusted pursuant to district rule requirements.

<u>Applicant</u>	<u>Project #</u>	<u>ERCs ISSUED (Tons/year)</u>		
		<u>NOX</u>	<u>VOC</u>	<u>SOX</u>
Dopaco	87-7	0	145	0
River Rock Products	C-0040-1	4	.07	.2
Elk Hills	920320	1702	608	0
Elk Hills	920319	476	115	0

5)

The District is allowing the banking of pre-1983 reductions that occurred in Kern County. In April of 1983, Kern County APCD adopted an emission reduction credit banking rule. The rule provided for a one-year grace period from the date of adoption to allow reductions occurring before adoption to be banked. After this period, pre-1983 reductions could be carried on a stationary sources net emissions increase, but could not be recognized as ERCs.

With the adoption of the SJVUAPCD banking rule, there was a provision that reductions realized prior to 1988 could be banked. Districts with banking rules would have their approved reductions transferred to the SJVUAPCD bank, and for districts without banking rules, pre-1988 reductions that were formally recognized by the district could also be banked. However, Kern County APCD didn't require the banking of all reductions and as a matter of equity, the SJVUAPCD allowed sources a limited time to apply to bank reductions informally recognized by the Kern District. This did not include pre-1983 reductions. At some point in time the District again changed it's policies and allowed for those reductions occurring before 1983 to be banked. Consequently, a significant number of applications to bank pre-1988 recognized reductions were reductions that occurred prior to 1983. In reviewing the SJVUAPCD banking program, a total of nine ERC applications have been approved by the District for pre-1983 reductions. Many of these applications were for oil companies banking reductions resulting from the requirements of Rule 425.

not a reqst
- 4/11/83
9/1/83
10/1/83
2/1/83
which are creditable

PRELIMINARY DRAFT

PRELIMINARY DRAFT

<u>Applicant</u>	<u>Project #</u>	<u>ERCs ISSUED (Tons/year)</u>		
		<u>NOX</u>	<u>VOC</u>	<u>SOX</u>
Elk Hills	920066	0	387	0
→ Chevron	920255	0	1428	0
UNOCAL	930413	23	0	0
Elk Hills	930844	0	211	0
Sunset Pipeline	2058000	0	19.5	0
Shell	4013-920929	101.7	0	0
SWEPI	930411	534.3	0	0
Shell Western	921026	813	0	0
Unocal	920198	36	0	0

- 5) The California Clean Air Act (CCAA) requires that districts reduce emissions by 5 percent per year using the 1987 emissions inventory as a baseline. The CCAA also requires districts to adopt programs for permitting new and modified sources of emissions which will result in no net increase in emissions. Since reductions in emissions which occurred prior to January 1, 1988 (pre-1988 reductions) are not reflected in the 1987 emissions inventory, the use of pre-1988 emission reductions to mitigate new sources of emissions could result in emissions increases. These emission reductions become the responsibility of the District to mitigate.

In order to address this issue, the District's banking rule states that emission reductions of NOx, VOC, and CO (in CO non-attainment areas) which occurred prior to January 1, 1988 shall not be eligible for use as offsets, netting, or in any way mitigating increases in emissions until the District, through rulemaking, has adopted appropriate discounting or other mitigation measures to show progress towards air quality attainment. In addition, an internal District memo from Mr. Lance Ericksen to the Permit Services Staff, dated 8/25/93, clearly states that conditions restricting the use of emission credits for pre-1988 reductions shall be included on all

PRELIMINARY DRAFT

RCR

PRELIMINARY DRAFT

SOUTHERN

Project Summary

ERC Audit - San Joaquin Valley Unified APCD

Elk Hills 920319, 920320

- Did not consider compressor downtime in quantifying emissions
- Analysis revised during comment period without re-notice
- Could not determine if reductions are in excess of Rule 427 compliance.

RECEIVED

AUG 12 1994

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

Elk Hills 930844

- A large portion of the negative HC NEI balance is methane, therefore the entry should be removed from the table
- No documentation showing what baseline period was used, should have been 3 years prior to reduction
- No documentation to indicate when reductions occurred, or when units were constructed
- ERC certificates do not have Pre 88 reduction labeling

Shell Western 901213

- Application filed after deadline, more than 90 days after reduction occurred
- Source test data used to quantify emission reductions was from a different type of equipment, No documentation was found to justify the use of the source test data

Shell Western 930411

- PTO was not changed to reflect lower emission levels, rendering reductions not enforceable

Shell Western 921026

No comment at this time

Shell Western 920207

- Reductions are required by a control measure in the SIP (EPA)
- Reductions are not made enforceable by A/C limits
- Highest result of source test data was used to quantify HAE instead of representative average

Texaco Refinery 930067

No comment at this time

Texaco Refinery 930683

No comment at this time

Post-It™ brand fax transmittal memo 7671 # of pages 6

To	L. Erickson/A. Phillips	From	Mike Tollstrup
Co.	Tom Goff	Co.	ARB
Dept.		Phone #	
Fax #	9-1-805-861-2060	Fax #	

PRELIMINARY DRAFT

Texaco Refinery 911202

- Staff twice recommended denial of credits based on filing deadlines, source was subsequently granted extensions contrary to district rules, no documentation found to justify granting of certificates
- No documentation found to support the claim that the reductions are permanent or enforceable, no A/C or PTO limits found
- No source test data or emission limits found to support quantification of reductions

Texaco Producing 910128

No comment at this time

Texaco Producing 900109

- Could not find 424/425 Plan
- Application was not filed within time frame provided in rules

Mobil 920299

- Some of the IC engines that are generating reductions were not originally recognized as increases in the NEI, thus reductions may not be surplus
- Reductions realized from the installation of Lo-NOx burners is not surplus because it was required by a control measure in the SIP

Shell Western 920929

Improper baseline period used to quantify emissions on unit '028, unit was run only 60 days per year, fuel use was extrapolated to generate an entire baseline period

- Only source test located showed that unit was not in compliance with rule 425 plan, no documentation to support that any units were in compliance
- Offsets were not provided for the unit generating reductions when it was built, therefore reductions are not surplus

Chevron USA 920319

- Emission reduction calculations cannot be reproduced or verified
- No source test data found, no documentation to show where EFs came from, no actual fuel use records
- 3 year baseline period used instead of the required 2 year period
- Unable to determine when reductions occurred from available information
- Documentation indicates that applicant is attempting to bank net cumulative profile since 1989
- RACT determination needs clarification. Question as to whether 2 g/bhp-hr RACT adjustment was used
- Documentation indicates that applicant is "netting out of BACT" instead of adhering to the requirement that each unit be analyzed to determine if it individually triggers BACT requirements
- Could not duplicate NEI emission reduction calculations

S-1127 **Chevron USA** 920255

- Documentation does not indicate that the reductions are enforceable by PTO or A/C condition

Aimcor 870401

- No source test data found, no documentation to show where EFs came from
- Facility shutdown - RACT adjustment required, but not done
- 6 months of the baseline period used is outside of the five year time period prior to the reduction occurring

Lonestar Gas 910214

No comment at this time

Excel-Mineral 890718

No comment at this time

Pacific Energy 920218

- Unit generating reductions was required to have had it's emissions offset when it was built, it did not, therefore reductions are not surplus
- Source tests were required but cannot be found, EF factors are based on manufacturers guarantee, no documentation was found to confirm the guarantee
- Reductions should be discounted for control measure that is in the annual plan

Laidlaw 920413

No comment at this time

San Joaquin Facilities 921030

- Incorrect AP-42 emission factors were used to quantify emissions, (EFs used were for different equipment)
- Control Measure generating reductions is required in 1992 annual list, reductions are not surplus

Arco O & G 920620

- Source test data used to calculate the HAE is only applicable to two of the four engines generating reductions. the source test was performed on one of the two old one-cylinder IC engines which yielded very high VOC emissions, no additional effort to validate estimate

Chevron Pipeline 921207

- Can not determine when reduction occurred from given information

Eagle Snacks 920909

- Insufficient operating data to provide a proper baseline period for quantification of emissions

PRELIMINARY DRAFT

Exxon 911227

No comment at this time

Kraft 920078

No comment at this time

Arco/Mobil 930308

No comment at this time

Shell Western 921201

No comment at this time

Shell Western 900425

No comment at this time

Sunset Pipeline 2058000

No comment at this time

Texaco 871003

- No 424/425 plan found for this source
- ARB was never noticed for this project

Witco Corp 921014

- Original project's emissions were partially offset by Utility Offset Credit, therefore per district rule the reductions are not eligible for banking

Texaco 900109

No comment at this time

ARCO/ORVX 900426

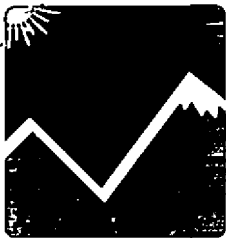
- No actual operating data supplied to establish baseline, HAE calculated based on results from three days of source tests

ARCO O & G 920289

ARB understands that this project will be revised and re-noticed. We will hold comment until we have reviewed the revised analysis.

Elk Hills NPR 920066

- A large portion of the negative HC NEI balance is methane, therefore the entry should be removed from the table
- No documentation showing what baseline period was used, should have been 3 years prior to reduction
- No documentation to indicate when reductions occurred, or when units were constructed



San Joaquin Valley Unified Air Pollution Control District

December 21, 1993

Mr. Ken Bigos, Chief Stationary Source Branch
U.S. E.P.A. - Region IX
New Source Section
75 Hawthorne St.
San Francisco, CA 94105-3901

RECEIVED

DEC 30 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

SUBJECT: Response to comments on preliminary public notice and notification of final decision, project #920255 - Emission Reduction Credits Certificate #'s S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

Dear Mr. Bigos:

The District is in receipt of your comments of August 11, 1993 regarding our preliminary decision to approve pre-1988 emission reduction credits for Chevron U.S.A., Inc. Our response to each item in your letter appears below:

1. The credits were determined to be surplus according to the provisions of the Rule 2301 (Emission Reductions Credit Banking). Rule 2301 explicitly requires that pre-January 1, 1988 reductions be adjusted based on the rules, plans, and workshop notices in effect at the time the Authority to Construct was deemed complete. The District believes it would be inconsistent with Rule 2301 to require further adjustments to the reductions based on rules made after the deemed complete date. Without these provisions in the banking rule, there would be no incentive for industry to voluntarily add emission controls and receive emission reduction credits. Only specific rules which are under development or adopted when the reductions occurs are to be used to determine if the reductions are surplus.
2. We agree with your concern that Rule 2301 does not specify a formal procedure for including pre-January 1, 1988 reductions in the AQAP planning inventory. We believe your concerns are adequately addressed by our agreement to provide a revised planning emissions inventory, showing the inclusion of all pre-1988 reductions approved for banking.

David L. Crow
Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kiernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakerfield, CA 93301
(805) 861-3682 • Fax (805) 861-2550

Mr. Ken Bigos
December 21, 1993
Page 2

For the purpose of including all approved pre-1988 reductions, the planning inventory need only be revised once because, as of June 17, 1993, the District no longer accepts applications to bank pre-1988 reductions.

3. To address your concerns, we have updated Chevron's cumulative net change tables to include these ERC banking approvals (see attached copies). The non-shutdown banking actions have been added as the last entries in the cumulative net change tables and have been added under each ATC which generated the reduction in the chronological listing. Any succeeding ERC applications for reductions which occurred prior to September 19, 1991 would be subject to a "surplus test" using the updated cumulative net change tables. Please be advised, Chevron has no additional pre-9/19/91 applications on file, and the statutory period for filing such applications has passed.

The current new source review rule does not allow use of VOC emissions from the cumulative net change table for any purpose. The cumulative net change table is not used for any purpose other than in performing "surplus tests" for pre-September 19, 1991 reduction banking applications.

Please note that the other VOC ERC's issued to Chevron are for shutdown of equipment which are not included in the cumulative net change table. They are shown following the table for staff informational purposes only and have no impact on the "surplus" determination made for this (and other) banking actions (Because they were not recognized as reductions at the time the Permits were surrendered, no subsequent permitting actions relied on the reductions for approval. Such reductions were determined to be "surplus" at the time of banking.)

Pursuant to Rule 2201 and 2301 of the San Joaquin Valley Unified Air Pollution Control District Rules and Regulations, the Air Pollution Control Officer has made a final decision to approve the above-referenced project.

As was agreed to in the meeting of September 2, 1993, the District will send to Chevron U.S.A., Inc. copies of your comments relating to this banking action.

Copies of the District's finalized analysis, public comments, and the Emission Reduction Credit Certificates are available upon request to Mr. Robert Rinaldi, 2700 "M" Street, Suite 275, Bakersfield, Ca. 93301, (805) 861-3682.

Draft

August 31, 1993

Mr. Ken Bigos, Chief Stationary Source Branch
U.S. E.P.A. - Region IX
New Source Section
75 Hawthorne St.
San Francisco, CA 94105-3901

**SUBJECT: Response to comments on preliminary public notice -
Emission Reduction Credits - Project #'s S-0037-1 through
S-0038-1 and S-0056-1 through S-0068-1**

Dear Mr. Bigos:

The District is in receipt of your comments of August 11, 1993 regarding our preliminary decision to approve pre-1988 emission reduction credits for Chevron U.S.A., Inc. Our response appears below:

1. The credits were determined to be surplus according to the provisions of the Rule 2301 (Emission Reductions Credit Banking). Rule 2301 explicitly requires that pre January 1, 1988 reductions be adjusted based on the rules, plans, and workshop notices in effect at the time the Authority to Construct was deemed complete. The District believes it would be inconsistent with Rule 2301 to require further adjustments to the reductions based rules made after the deemed complete date. Without these provisions in the banking rule, there would be no incentive for industry to voluntarily add emission controls and receive emission reduction credits. Following the guidance in your comment, if a company voluntarily added emission controls today, banked reductions, sold them or used them to mitigate an emissions increase, it would be possible for a future more stringent RACT rule to invalidate credits or permit actions. Only specific rules which are under development or have been adopted when the reductions occurs should be used to determine if the reductions are surplus.

Mr. Ken Bigos, Chief Stationary Source Branch
U.S. E.P.A. - Region IX
New Source Section
August 31, 1993
Page 2

Draft

2. We agree with your concern that Rule 2301 does not specify a formal procedure for including pre January 1, 1988 reductions in the AQAP planning inventory. We believe your concerns can adequately be addressed by our agreement to provide, no later than the end first quarter 1994, a revised emissions planning inventory, showing the inclusion of all pre 1988 reductions approved for banking. For the purpose of including all approved pre-1988 reductions, the planning inventory need only be revised once, because, as of June 17, 1993, the District may no longer accept applications for to bank pre-1988 reductions.

3. Your concerns regarding the Net Cumulative Emissions Change Table are appropriate. To address these concerns, we have identified and have enclosed a copy of all ERC banking approvals for VOC for Chevron's western and central heavy oil stationary source made to date. By cross referencing each banking action against entries made in the cumulative net emissions change table, it was possible to confirm that the emissions reductions which were approved for banking had no effect on the degree to which the pre-1988 reductions were surplus. All pending ERC projects will be checked in the same manner. The issuance of ATC's authorizing 99% VOC control of steam drive well casing gas are recorded with a negative emission change. Upon issuance of ERC's, these negative values will be reduced by the value of approved ERC's and approved ERC value added to the bottom of net cumulative change table.

Thank you for your cooperation in this matter. Should you have any questions please telephone Mr. Robert Rinaldi of the Permit Services at (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:rcr

cc: Thomas Goff-Permit Services Manager/Southern Region

Draft

Banking Certificate Registry

Company Name	ERC Number	Con-tami-nant	Location Section Township Range	Certificate AHE Amount lbw/qtr	How ERC was achieved	Status	Issue Date
Chevron USA, Inc. (Ref)	2005001/501	NMHC	08/29S/28E	391.7	Amount in lbw/day - Shutdown PTO #'s 2005001-003, 036, & 037	Expired 4/30/89	04/30/87
Chevron USA Refinery	2005001/501	NMHC	08/29S/28E	35256.6	Shutdown Chevron Bakersfield Refinery	ERC for 1st quarter	12/23/91
Chevron USA Refinery	2005001/501	NMHC	08/29S/28E	35648.3	Shutdown Chevron Bakersfield Refinery	ERC for 2nd quarter	12/23/91
Chevron USA Refinery	2005001/501	NMHC	08/29S/28E	36040.1	Shutdown Chevron Bakersfield Refinery	ERC for 3rd quarter	04/30/87
Chevron USA Refinery	2005001/501	NMHC	08/29S/28E	34040.1	Shutdown Chevron Bakersfield Refinery	ERC for 4th quarter	04/30/87

Banking Certificate Registry

Company Name	ERC Number	Con-tami-nant	Location Section Township Range	Certificate AHE Amount lbw/qtr	How ERC was achieved	Status	Issue Date
Chevron USA Inc.	4008144/501	VOC	27/29S/29E	607.6	Shutdown steam generators	ERC for 1st quarter	07/20/92
Chevron USA Inc.	4008144/501	VOC	27/29S/29E	519.7	Shutdown steam generators	ERC for 2nd quarter	07/20/92
Chevron USA Inc.	4008144/501	VOC	27/29S/29E	529.1	Shutdown steam generators	ERC for 3rd quarter	07/20/92
Chevron USA Inc.	4008144/501	VOC	27/29S/29E	467.8	Shutdown steam generators	ERC for 4th quarter	07/20/92
Chevron USA Inc.	2041036/501	VOC	11/27S/21E	13199.0	Shutdown 8 I.C. engine compressors	ERC for 1st quarter	07/28/92
Chevron USA Inc.	2041036/501	VOC	11/27S/21E	13345.6	Shutdown 8 I.C. engine compressors	ERC for 2nd quarter	07/28/92
Chevron USA Inc.	2041036/501	VOC	11/27S/21E	13492.3	Shutdown 8 I.C. engine compressors	ERC for 3rd quarter	07/28/92
Chevron USA Inc.	2041036/501	VOC	11/27S/21E	13492.3	Shutdown 8 I.C. engine compressors	ERC for 4th quarter	07/28/92
Chevron USA Inc.	4008415/501	VOC	04/27S/21E	1693.8	Shutdown of tanks and truck loader	ERC for 1st quarter	08/17/92
Chevron USA Inc.	4008415/501	VOC	04/27S/21E	1712.6	Shutdown of tanks and truck loadout	ERC for 2nd quarter	08/17/92
Chevron USA Inc.	4008415/501	VOC	04/27S/21E	1731.4	Shutdown of tanks and truck loadout	ERC for 3rd quarter	08/17/92
Chevron USA Inc.	4008415/501	VOC	04/27S/21E	1731.4	Shutdown of tanks and truck loadout	ERC for 4th quarter	08/17/92

Notes by
JE 8/23/93

RECEIVED

AUG 23 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

MEMORANDUM

SUBJECT: Chevron ERC application
FROM: Jennifer Fox, EPA Reg IX
TO: Robert Rinaldi, SJVUAPCD
DATE: August 23, 1993

OPTIONAL FORM 90 (7-90)

FAX TRANSMITTAL

of pages 1

To	Robert Rinaldi	From	Jennifer Fox
Dept./Agency	SJVUAPCD	Phone #	415-744-1257
Fax #	805-861-2060	Fax #	415-744-1076
NSN 7540-01-917-7368		5099-101	
GENERAL SERVICES ADMINISTRATION			

As discussed in today's phone conversation, I am requesting more information about the NO_x calculation contained in the permit modification application for Paramount Farm. I am explaining the request that I made last week to see the calculation of the NO_x IPE*.

The source of my confusion is that there is an increase in natural gas usage and an increase in operating hours; but the application says that there will be no increase in potential emissions. Appendix F, Major Modification to Existing Non Major Source Calculations, shows that there is an increase in permitted NO_x emissions *on an annual or calendar quarter basis*.

First, according to District Rule 2201, 6.7.3, a major mod. to an existing non-major source is the sum of:

- IPE for new and modified em. units contained in the SS mod., plus
- IPE for new and modified em. units which are authorized within 5 consecutive years before the commencement of construction of the proposed SS mod.
- The proposed mod. shall be considered a major mod. if the IPE exceeds the levels specified in section 3.20 [25 tpy of NO_x] or if the PE after the mod exceeds 50 tpy for any affected pollutant.

For this reason, I believe that the increase from the Proctor & Schwartz Dryer should be shown as it may actually result in the determination that a modification is major. (While I realize that according to your rule, no NSR balance is calculated for NO_x and VOCs, section 6.7 does require a calculation of the IPE.) *yes on a quarterly basis*

Second, since the IPE for NO_x as shown in Attachment F is >0, would you not go to section 6.4 to determine the IPE for the purposes of determining the offset requirement? (Let me call the IPE calculated in section 6.4 "IPE*" so that we don't get it confused with the applicability number above.) In this case, I believe, you can use emission reduction offsets (see 6.4.1). If this IPE* is >0, then offsets as calculated pursuant to section 6.8.2.1 must be calculated. In order to demonstrate that the source need not provide NO_x offsets, the application should show that IPE* is indeed =0. *offset triggered by 6.4.3.2 no calculation by 6.8.2.1*

Please feel free to call me at 415-744-1257 if you have any questions.

* Attachment F is the calculation for section 6.7 not 6.4. Calculations for 6.4 IPE on a quarterly basis are shown on pages 1-4

6.4.1 can only be used if offset provided were provided. Project must use 6.4.3.2 IPE on a quarterly basis see pgs 1-4

yes see revised

see pages of the analysis

1.) Increase on daily no increase qtr or annual

2.) Yes ~~P~~ Dryer should be inc. in
major SS calc see revised

3.) last paragraph AHI F. only
to det major ~~SS~~ mod. ~~to~~ for
notice not offsets

6.6.2.2 all increases in permitted emissions (IPE) authorized by a valid or implemented Authority to Construct for emissions units which were in existence prior to the baseline date and were modified after the baseline date. For modifications prior to September 19, 1991, use the net emission increase values determined pursuant to the calculation procedures from the New and Modified Stationary Source Review Rule in effect at the time of modification.

6.6.2.3 the daily average of emission reduction credits that have been banked, used as offsets at another stationary source, or transferred to another entity.

6.6.3 The following shall be subtracted in determining the stationary source NSR balance:

6.6.3.1 actual emissions reductions (AER) authorized by implemented Authority to Construct for emissions units which were in existence prior to the baseline date and were modified or shutdown after the baseline date but only to the extent the stationary source was charged with a positive emission change in Section 6.6.2.3.

6.6.3.2 banked emission reduction credits for onsite emission reductions from the stationary source for which the emission reduction credit certificate is voluntarily surrendered to the District.

6.7 Major Source or Major Modification:

The following calculations shall be performed separately for each pollutant. All calculations shall be performed on annual basis using tons per year of emissions. IPEs calculated according to the following sections are only for the purpose of determining if a new source or a modification is major.

6.7.1 New Major Sources

Potential to Emit (PE) for a major source is the sum of potential to emit for all emissions units within the stationary sources. A new source is considered to be major source if PE as calculated here exceeds the levels specified in Subsection 3.21.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105-3901

Aug 11, 1993

In Reply A-5-1
Refer to: NSR 4-1

Sayed Sadredin, Director of Permit Services
San Joaquin Valley Air Pollution Control District
1999 Tuolumne Street, Suite 200
Fresno, CA 93721

Dear Mr. Sadredin:

EPA appreciates the opportunity to comment on Chevron U.S.A.'s request for VOC emission reduction credits for their western and central stationary sources in Kern County (application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1).

Our comments explain that because the controls which generated these credits are required by other regulations, the credits are not surplus, as required by the Emissions Trading Policy Statement (December 4, 1986, 51 FR 43814) and the Clean Air Act General Preamble (See 57 FR 13553). Because these credits are not legal, we will not be able to allow their use.

Our comments are enclosed. Please provide us with a copy of a copy of your final decision along with responses to all EPA and public comments. If you have any questions regarding these comments, please contact Jennifer Fox of our New Source Section at (415) 744-1257.

Sincerely,

A handwritten signature in black ink that reads "Ken Bigos".

Ken Bigos
Chief, Stationary Source Branch
Air and Toxics Division

Enclosure

cc: Ray Menebroker, CARB
Dave Crow, SJVUAPCD
Robert Rinaldi, SJVUAPCD Southern Office

EPA Comments
Chevron U.S.A.
Emission Reduction Credits
Project #'s: S-0037-1 through '0038-1
and S-0056-1 through '0068-1

1. Because the reductions are required by RACT rules, they are clearly not surplus. As required by Congress in §173 (c)(2) of the Clean Air Act Amendment, "Emission reductions otherwise required by this chapter shall not be credible as emissions reductions for purposes of any such offset requirement." This includes the requirements of §172 (c)(1), Nonattainment plan provisions, and §182 (b)(2), Reasonably available control technology. For VOC emissions, it is important to note that retained reduction credits must be used in accordance with the current requirements in the area, not the requirements in effect at the time the credits were established.

A memorandum (dated July 21, 1993 and signed by the Director of the Office of Air Quality Planning and Standards), which has been sent to the District under a separate cover, confirms that reductions must be discounted to reflect reasonably available control technology requirements applicable to the source or reasonably foreseeable at the time of use of the emissions reductions as offsets. These reduction must be discounted to reflect the level of control currently required by the Clean Air Act Amendments. Since District Rule 4401.5.3 requires a 99% control efficiency of VOC emissions, none of these credits are surplus.

2. We appreciate the District's memo to the planning department regarding the fate of ERCs created prior to 1990. However, you have still not demonstrated that these credits have either been accounted for in the 1987 inventory or added to the 1991 AQAP. Simply requesting that the planners "please add the emissions to the 1987 inventory, or account for these emissions in revisions to the 1991 AQAP and annual tracking of emissions reductions," does not constitute a demonstration that these reductions are surplus. Until the District demonstrates to the EPA that these reductions are included in the 1990 inventory as growth and are not necessary for use by the District in meeting RFP and milestone requirements, these credits can not be considered surplus.

3. The EPA is also concerned that the Cumulative Net Change tables should reflect any emission reduction credit banking. As discussed in an August 8, 1993 phone conversation between Jennifer Fox, EPA, and Robert Rinaldi, SJVUAPCD, the District needs to add any ERCs that are formally banked to the net cumulative emissions change tables. The District determines what is surplus by looking at all emissions increases and decreases in a contemporaneous period. If the source relies on a decrease for the purposes of internal netting, then this reduction can not be banked. If the District does decide to act on these credits, EPA would like to see Chevron's amended Cumulative Net Change tables which show that banked VOC credits are not included as decreases.

Memorandum * San Joaquin Unified Air Pollution Control District

TO : Ms. Jennifer Fox, EPA Reg IX DATE: July 30, 1993
FROM : Robert Rinaldi AQE II
Telephone No.: (805) 861-3682
SUBJECT: Chevron ERC Application

Here is the information requested in the FAX transmittal dated July 22, 1993.

- 1) **Demonstration that the VOC control efficiency was actually 99%.**

Well head casing vapor recovery systems are composed of gas/liquid separators, gas compressors, heat exchangers, air-cooled vapor condensers and, firebox noncondensable vapor incineration systems, and associated piping (please see typical process flow diagram in attached documents). VOC's are completely sealed from the atmosphere with the exception of fugitive leaks and emissions at the stack of the steam generators. Rule 4401 section 5.3 requires components (valve, flanges etc.) be maintained in good condition and limits number of allowable leaks. VOC destruction efficiency at steam generator is 99.9%. Therefore 99% control efficiency of VOC emissions can be expected.

- 2) **Source test data demonstrating the emission factors of 224.12 and 125.55 lb/day.**

Please find data in attached documents and see "Verification of Weighted Emission Factor" on page 13 of ERC application review.

- 3) **Pages 1a-1vv of the appendix and any other information necessary to verify that the offsets used for the Western Stationary Source and subsequent offsets claimed for credit were reestablished with federally enforceable emissions limitations and properly considered in the inventory and AQAP.**

Please find pages 1a-1vv in attached documents.

Ms. Jennifer Fox
July 30, 1993
Page 2

- 4) A demonstration that emissions increases (in the Western source) exceeding the trigger level were not included for credit. (The calculations section does not show how they were accounted for.)

If the summation (excluding the reduction in question) of the emission rate changes (since 9/12/79) never at any point equals or exceeds the applicable trigger for BACT or offsets (+150 lb/day prior 7/1/91 and 0 lb/day from 7/1/91 to 9/18/91). The selected emission reduction is surplus provided that it was proposed before any rule would have required the reduction.

The summation explained above was performed on the cumulative net change table for the Western and Central Stationary Sources (see "Reestablishment tests for HC" in attached documents). No trigger levels were exceeded in the central source. In the western source emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This amount was subtracted from the proposed reductions to be banked as not surplus.

- 5) Demonstration that the emission limitations are federally enforceable. I did not receive a copy of any amended PTO's and am concerned that a simple requirement to maintain controls does not ensure the existence of emissions reductions.

Please find attached sample permit for well head casing vapor recovery system and see discussion in part one above.

Thank you for your cooperation. Should you have any questions, please telephone me at (805) 861-3682.

TABLE OF CONTENTS FOR
REQUESTED INFORMATION

Typical process flow diagram for well head casing
vapor recovery systems.....Attachment A

Source test data demonstrating the emission
factors of 224.12 and 125.55 lb/day.....Attachment B

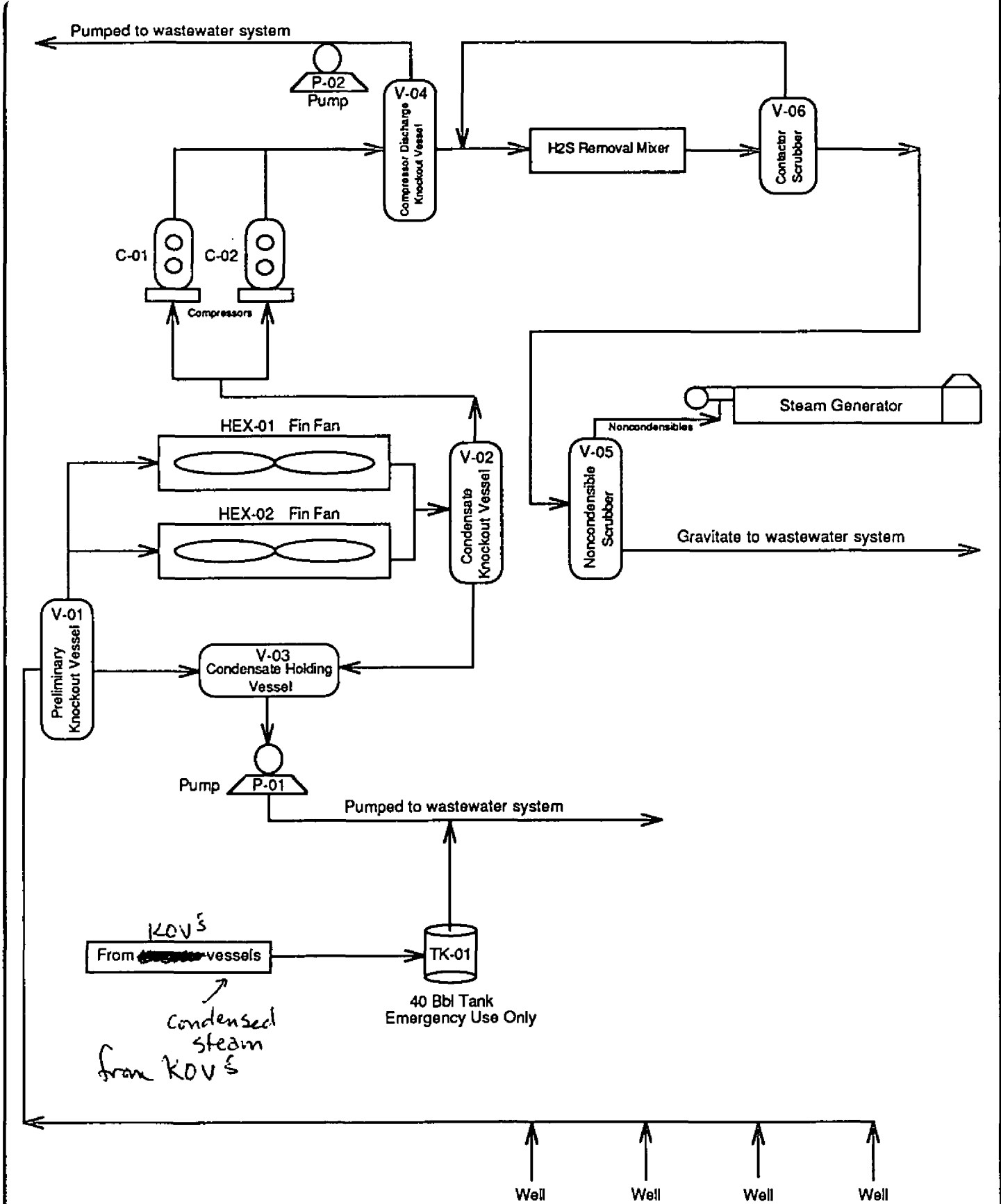
Pages 1a-1vv of the appendix referenced
in "ERC Application Review".....Attachment C

Reestablishment tests for HC in Western
Stationary Source.....Attachment D

Sample permit for well head casing vapor
recovery system.....Attachment E

Mocal Casing Vent Vapor Recovery Collection System

Process Flow Diagram





USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
 USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
 QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
 PACKAGE
 TRACKING NUMBER

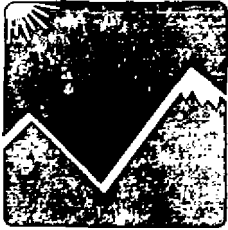
4873869840

4873869840

SENDER'S COPY

SHIPPER'S FEDERAL EXPRESS ACCOUNT NUMBER 1500 445 96		Date 7/30/93	
From (Your Name) Please Print Robert Rinaldi		Your Phone Number (Very Important) (805) 861-3682	To (Recipient's Name) Please Print Ms. Jennifer Fox
Company San Joaquin Valley Unified APCD		Department/Floor No. (805) 861-3682	Recipient's Phone Number (Very Important) 415 744-1257
Street Address 2700 "M" Street Ste. 275		City Bakersfield, CA	State CA
City 2700 "M" Street Ste. 275		State CA	ZIP Required 93301
City Bakersfield, CA		State CA	ZIP Required 94105
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)			
PAYMENT <input type="checkbox"/> Bill Sender <input checked="" type="checkbox"/> Bill Recipient's FedEx Acct. No. <input type="checkbox"/> Bill 3rd Party FedEx Acct. No. <input type="checkbox"/> Credit Card		IF HOLD FOR PICK-UP, Print FEDEX Address Here Street Address	
<input type="checkbox"/> Cash/Check Acct./Credit Card No. 1500 445 96		City State ZIP Required	
SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING (Check services required)	
Priority Overnight (Delivery by next business morning) 11 <input type="checkbox"/> YOUR PACKAGING 16 <input type="checkbox"/> FEDEX LETTER* 12 <input type="checkbox"/> FEDEX PAK* 13 <input type="checkbox"/> FEDEX BOX 14 <input type="checkbox"/> FEDEX TUBE		Standard Overnight (Delivery by next business afternoon No Saturday delivery**) 51 <input type="checkbox"/> YOUR PACKAGING 56 <input type="checkbox"/> FEDEX LETTER* 52 <input checked="" type="checkbox"/> FEDEX PAK* 53 <input type="checkbox"/> FEDEX BOX 54 <input type="checkbox"/> FEDEX TUBE	
Economy Two-Day (Delivery by second business day †) 30 <input type="checkbox"/> ECONOMY		Government Overnight (Restricted for authorized users only) 46 <input type="checkbox"/> GOVT LETTER 41 <input type="checkbox"/> GOVT PACKAGE	
Freight Service (for packages over 150 lbs.) 70 <input type="checkbox"/> OVERNIGHT FREIGHT** 80 <input type="checkbox"/> TWO-DAY FREIGHT**		1 <input type="checkbox"/> HOLD FOR PICK-UP (Fill in Box H) 2 <input type="checkbox"/> DELIVER WEEKDAY 3 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations) 4 <input type="checkbox"/> DANGEROUS GOODS (Extra charge) 5 <input type="checkbox"/> 6 <input type="checkbox"/> DRY ICE Lbs. 7 <input type="checkbox"/> OTHER SPECIAL SERVICE 8 <input type="checkbox"/> 9 <input type="checkbox"/> SATURDAY PICK-UP (Extra charge) 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> HOLIDAY DELIVERY (if offered) (Extra charge)	
		PACKAGES WEIGHT In Pounds Only YOUR DECLARED VALUE (See right)	
		Total Total Total	
		DIM SHIPMENT (Chargeable Weight) L x W x H	
		1 <input type="checkbox"/> Regular Stop 3 <input type="checkbox"/> Drop Box 2 <input type="checkbox"/> On-Call Stop 4 <input type="checkbox"/> B.S.C.	
		SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500.00. In the event of untimely delivery Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.	
		Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges	
		REVISION DATE 2/92 PART 9137/95 GBFE FORMAT #126	
		126	
		Release Signature:	

SENDER'S COPY
 DROP OFF YOUR PACKAGE AND SAVE



San Joaquin Valley Unified Air Pollution Control District

June 30, 1993

Mr. Raymond Menebroker, Chief
California Air Resources Board
Project Review Branch - Stationary Source Division
2020 L Street
Sacramento, CA 95814

Re: **Project #: 920255**
Application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1
Project Description: VOC Emission Reduction Credits for Installation of Casing
Collection Systems Installed Prior to April 25, 1983.

Dear Mr. Menebroker:

Enclosed for your review and comment is the analysis of Chevron U.S.A.'s request for VOC emission reduction credits for installation of casing collection systems in the western and central stationary sources in Kern County.

Also enclosed is a copy of the preliminary public notice to be published on approximately three days from date of this letter. This will start the 30-day public comment period. Please submit your written comments on our analysis and draft documents as soon as possible to provide ample time for our review and consideration.

Thank you for your cooperation in this matter. Should you have any questions please telephone Mr. Robert Rinaldi of the Permit Services at (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:RR

c: Thomas Goff-Permit Services Manager/Southern Region
Enclosures

David L. Crow
Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kiernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 861-3682 • Fax (805) 861-2060



San Joaquin Valley Unified Air Pollution Control District

June 30, 1993

Mr. W.A. Brommelsiek
Manager of ESF&H
Chevron U.S.A.
Post Office Box 1392
Bakersfield, California 93302

RECEIVED

JUL 6 - 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

Re: **Project #: 920255**
Application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1
Project Description: VOC Emission Reduction Credits for Installation of Casing
Collection Systems Installed Prior to April 25, 1983.

Dear Mr. Brommelsiek:

Enclosed for your review and comment is the analysis of Chevron U.S.A.'s request for VOC emission reduction credits for installation of casing collection systems in the western and central stationary sources in Kern County.

Also enclosed is a copy of the preliminary public notice to be published on approximately three days from date of this letter. This will start the 30-day public comment period.

Please submit your written comments on our analysis and draft documents as soon as possible to provide ample time for our review and consideration.

Thank you for your cooperation in this matter. Should you have any questions please telephone Mr. Robert Rinaldi of the Permit Services at (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:rr

c: Thomas Goff-Permit Services Manager/Southern Region
Enclosures

David L. Crow

Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 861-3682 • Fax (805) 861-2050



San Joaquin Valley Unified Air Pollution Control District

June 30, 1993

Mr. Matt Haber, Chief
U.S. E.P.A. - Region IX
New Source Section
75 Hawthorne St.
San Francisco, CA 94105

Re: **Project #: 920255**
Application #'s: S-0037-1 through '0038-1 and S-0056-1 through '0068-1
Project Description: VOC Emission Reduction Credits for Installation of Casing
Collection Systems Installed Prior to April 25, 1983.

Dear Mr. Haber:

Enclosed for your review and comment is the analysis of Chevron U.S.A.'s request for VOC emission reduction credits for installation of casing collection systems in the western and central stationary sources in Kern County.

Also enclosed is a copy of the preliminary public notice to be published on approximately three days from date of this letter. This will start the 30-day public comment period. Please submit your written comments on our analysis and draft documents as soon as possible to provide ample time for our review and consideration.

Thank you for your cooperation in this matter. Should you have any questions please telephone Mr. Robert Rinaldi of the Permit Services at (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:rr

c: Thomas Goff-Permit Services Manager/Southern Region
Enclosures

David L. Crow
Executive Director/Air Pollution Control Officer
1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 861-3682 • Fax (805) 861-2060

PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105-3901

Aug 18, 1993

RE

AUC

San Joaquin
Air Poll

In Reply A-5-1
Refer to: NSR 4-1

Sayed Sadredin, Director of Permit Services
San Joaquin Valley Air Pollution Control District
1999 Tuolomne Street, Suite 200
Fresno, CA 93721

Dear Mr. Sadredin:

This letter serves two purposes. First, EPA would like to reiterate the requirement that Emission Reduction Credits must be surplus and explain guidance clarifying the definition of surplus. Second, this memo also provides EPA comment on six preliminary public notices for ERCs which have recently been received from the District.

Pre 1990 emission reductions

The District has failed to demonstrate that emission reductions which occurred before 1990 have been included in the emissions inventory. The General Preamble for the Implementation of Title I of the Clean Air Act Amendments specifies that states banking pre-1990 emission reductions may use these credits for offsetting purposes only if the amount of emissions represented by the restored credits is included in the emissions inventory for SIP planning purposes and all other offset creditability criteria are met. Federal regulations (40 CFR 51.65 (a)(3)(ii)(C)(1)) further clarify that only prior reductions which have been explicitly included "as current existing emissions" in the inventory can be considered for offsets. While the District has requested the planning department to add the proposed ERCs to the inventory, simply requesting that the planners "please add the emissions to the 1987 inventory, or account for these emissions in revisions to the 1991 AQAP and annual tracking of emissions reductions," does not constitute a demonstration that these reductions are surplus. Further, we understand, from phone calls on August 11 with the San Joaquin Planning office, that planners do not have the ability to add the emissions to the 1987 inventory.

EPA has received five applications for ERCs in the past two months in this category:

Source	Application #	Reduction type	Reduction date
Shell	401292106	low NO _x burners, O ₂ controllers	1982
Chevron	S-0037-- > 38 S-0056-- > 68	casing collections systems	< 1983
Berry Petroleum	S-0091	shutdown of IC engines	1986
Mobil	S-0092-- > 96	adding controls to wells and shutdown of IC engines	1988
Donald & Gregg	C-0040	shutdown of asphalt batch plant	1988

While we have already provided comment on the Shell and Chevron applications, the above comment applies to all of these ERCs. Federal regulations require that the District demonstrate to the EPA that these reductions are included in the 1990 inventory as growth as specified in Matt Haber's April 7, 1993 memo and worksheet called *Emissions Inventory Impacts of Retaining pre-1990 ERC's*, and in *Guidance on the Adjusted Base Year Emissions Inventory and the 1996 Target for the 15% Plans*, dated January, 1993 from OAQPS.

Emission reductions required by current RACT requirements.

As the District is aware, the Emissions Trading Policy Statement (ETPS, 51 FR 43832) and other EPA Guidance state that the district must use the "lowest-of-SIP-allowable-or-RACT-allowable emissions baseline for each source" to determine what is surplus. As required in §173 (c)(2) of the Clean Air Act, "Emission reductions otherwise required by this chapter shall not be creditable as emissions reductions for purposes of any such offset requirement." This includes the requirements of §172 (c)(1), Nonattainment plan provisions, and §182 (b)(2), Reasonably available control technology. Therefore, ERC values must be "RACT adjusted."

A memorandum (dated July 21, 1993 and signed by the Director of the Office of Air Quality Planning and Standards), which has been sent to the District under a separate cover, confirms that reductions must be discounted to reflect RACT requirements applicable to the source or reasonably foreseeable at the time of use of the emissions reductions as offsets.

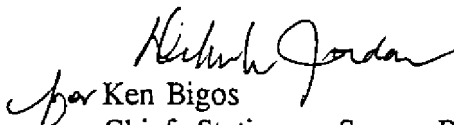
In the last three months, EPA has received the following applications which should be RACT adjusted:

Source	Application #	Reduction type	Reduction date
Gallo	N-0002	low NO _x burners and FGR	1991
Shell	401292106	low NO _x burners, staged combustion, O ₂ controllers	1982
Gallo	C-0037	low NO _x burners and FGR	1991
Mobil	S-0092-- >96	adding controls to wells and shutdown of IC engines	1988

EPA has commented on the first three emission reduction credit applications, but has not yet been notified of a final District decision. The Mobil application must also be discounted to reflect the level of control currently required by the Clean Air Act Amendments.

We understand that the District may disagree about what levels are surplus to federal requirements. We look forward to working with you to resolve these issues as the afore mentioned ERC applications do not constitute an exhaustive list of affected ERC applications. If you have any questions regarding these comments, please contact Jennifer Fox of our New Source Section at (415) 744-1257.

Sincerely,


for Ken Bigos
Chief, Stationary Source Branch
Air and Toxics Division

cc: Ray Menebroker, CARB



Chevron U.S.A. Production Company

P.O. Box 1392, Bakersfield, CA 93302

May 7, 1993

W. A. Brommelsiek
Manager—Environmental, Safety, Fire & Health
Western Business Unit

**EMISSION REDUCTION CREDITS FOR
INSTALLATION OF CASING
COLLECTION FROM PRE- APRIL 25,
1983 VOC REDUCTIONS
APPLICATION #'S 4008302/501
4008317/501 PROJECT # 921117**

**Mr. Thomas E. Goff
SJVUAPCD - Southern Zone
2700 "M" Street, Suite 275
Bakersfield, Ca 93301**

Attn.: Mr. Robert Rinaldi

Gentlemen:

This correspondence is regarding the outstanding issue of whether or not Chevron needs to supply further offsets for previously approved projects. After reviewing the profiles we believe that 52.7 lbm/day should be subtracted from our ERC application. Please subtract this amount evenly from each location for the Western Source project.

We made the above determination in the following manner:

- A. *Current Western Source profile equals 257.2 lbm/day HC. (This includes a 10 generator project 4008591 - ...600 for 39.9 lbm and the 31X project to increase TVP 4224001A - ...009A, &4224011A -O ...014A.)*
- B. *A 1Y CCS project, APCD # 4008835, was not shown on the profile. This represented a total of 236 lbm/day HC that had to be offset. (CCS fugitive equal 153.75 plus 82.25 lmb/day for polish rod fugitives.)*
- C. *A project to increase the well counts on two existing casing collection systems located on section 36 (29/21) (APCD # 4008317J & 4008352G) was also not listed on the profile. This project included a total of 187.94 lbm/day HC emissions. (An incremental of 135.30 for the CCS and 52.64 for polish rod fugitives.)*

A., B., & C. represents a total of 681.18 lbm/day HC.

D. *Our original application to re-establish the HC emissions was for 2726.48 lbm/day.*

E. *The application for ERCs was for 2248.00 lbm/day.*

This represents a difference of 478.48 lbm/day between the two applications. This difference was used to offset the above projects. This 478.48 plus the 150 lbm/day growth allowance subtracted from the 681.18 lbm/day for projects leaves a balance of 52.70. This corresponds to the amount needed to offset the polish rod fugitives for the 36W project mentioned above. See the attached table for additional information.

If you have further questions please contact Mr. Kelly Skeels at (805) 633-4458.

Sincerely,

K. P. Skeels For/

W. A. Brommelsiek

KPS

VOCERCR3



San Joaquin Valley
Unified Air Pollution Control District

FAX Transmittal Sheet

Date: 4/27-93

Southern Region

2700 "M" Street, Suite 275
Bakersfield, CA 93301

Voice: (805) 861-3682
FAX: (805) 861-2060

From: Robert Rinaldi

To: Kelly Skeels Chevron U.S.A.
Name Company

Total Pages (including cover page): 4 Fax No.: 633-4423

Comments: Pages from Engineering Evaluation
for 4224001A-009A, 011A-014A. See "*"

VI. Emission Calculations:(cont.)

CURRENT EMISSIONS (cont.)

4008602-606 - New Tanks

These are new emissions units therefore current emissions are zero.

4224001A-009A, 4224011A-014A - MOU Tanks

These are previously existing heavy oil tanks which have recently been permitted. While they have permits, the vapor pressure is expected to be less than 1.5 psia. Therefore, no DELs have been established nor any other emission limitations. For purposes of this modification, current emissions from these tanks are zero.

PROPOSED EMISSIONS

Proposed emissions for each of the emissions units are shown below with a summary of emissions at the end of this section.

4008080L, 081P, 082L - Steam Generators

Proposed emission limitations for these three units will be the same as current emission limitations. Each of these units already contains provisions for incineration of TEOR gas from a casing vapor recovery system and applicant has committed to controlling sulfur compound emissions at or below the current permitted levels. Therefore the SLC limitations shall remain the same for these three units.

4008350I - Casing Vapor Recovery System

Addition of the vent connection from TVCS 4008601 is only for emergency situations resulting when the three steam generators are shutdown. No increase in emissions for the Casing Vapor Recovery System are expected or proposed. Therefore proposed emissions are the same as current emissions for this permit unit and are 165.36 lbm/day of hydrocarbons.

4008601 - Tankage Vapor Recovery System

Emissions associated with the vapor recovery system have been quantified as emissions from the individual tanks tied in to the system and are included on the individual tank Authorities to Construct. Therefore, proposed emissions are zero.

4008549A - 566A, 4008602 - 606, 4224001A - 014A

For the existing MOU tanks (4224001A - 009A, 011A - 014A, the proposed sump replacement tanks (4008549A - 566A), and the additional tanks (4008602 - 606); Chevron provided a spreadsheet showing the input parameters for calculating working and breathing loss for each of the tanks. This spreadsheet is attached as pages 8 - 10.

FACSIMILE MESSAGE RECEIVED

JUN 28 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

ENVIRONMENTAL, SAFETY, FIRE & HEALTH

**CHEVRON U.S.A. INC.
4900 CALIFORNIA AVENUE
BAKERSFIELD, CA 93309**

**P.O. BOX 1399
BAKERSFIELD, CA 93309**

TO: Robert Rinaldi

LOCATION: SJVUAPCD - Bakersfield

FROM: Doris Lambertz DATE: 6/28/93

NUMBER OF PAGES 2 (INCLUDING COVER SHEET)

SPECIAL INSTRUCTIONS The attached information affects
Chevron's application for Western Source hydrocarbon EPC's
(#4008317/501). Please call me at 633-4453 if

you have any questions. Doris Lambertz

If transmission is interrupted or received incomplete please contact
sender.

ESP&H Fax Number (805)633-4433



Chevron U.S.A. Production Company
P.O. Box 1392, Bakersfield, CA 93302

W. A. Brommelsiek
Manager - Environmental, Safety, Fire & Health
Western Business Unit

June 28, 1993

MODIFICATION OF S-1128-0385
ADDITIONAL INFORMATION

Mr. David L. Crow
San Joaquin Valley Unified APCD
2700 "M" Street, Suite 275
Bakersfield, CA 93301

Attention: Mr. Leonard Scandura

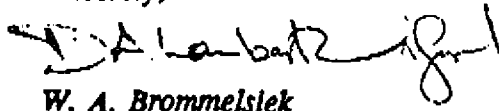
Gentlemen:

Our application for modifying gas gathering system S-1128-0385¹ specified that emission reduction credits (ERC's) to offset hydrocarbon emissions were to be provided by Chevron Western Heavy Oil Source ERC's which are under review by the District (#4008317/501). The location which generated these offsets is Section 15, Township 31S, Range 22E. The following adjustment should be made to the ERC certificate issued for Section 15:

1st Quarter	-2,380.50 lbm VOC
2nd Quarter	-2,406.95 lbm VOC
3rd Quarter	-2,433.40 lbm VOC
4th Quarter	-2,433.40 lbm VOC

Please contact Ms. Doris Lambertz at (805) 633-4453 if you have any questions or need additional information.

Sincerely,


W. A. Brommelsiek

cc: Mr. Robert Rinaldi - SJV Unified District
Mr. Kelly Skeels - Chevron USA Production Co.

445



San Joaquin Valley
Unified Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-1128-385-1

ISSUANCE DATE: 07/07/93

LEGAL OWNER OR OPERATOR: CHEVRON U.S.A. INC.
MAILING ADDRESS: P. O. BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN SOURCE,
SECTION: 36 TOWNSHIP: 29S RANGE: 21E

EQUIPMENT DESCRIPTION:
MODIFICATION OF TEOR OPERATION SERVING 250 CYCLICALLY STEAMED WELLS: INCREASE GAS THROUGHPUT TO 4.0 MM STANDARD DRY CUBIC FEET/DAY AND REDUCE NUMBER OF STUFFING BOXES TO 50

CONDITIONS

- 1 - No air contaminant shall be released into the atmosphere which causes a public nuisance.
- 2 - The operation shall consist of WVVC piping serving 250 steam enhanced wells.
- 3 - The operation shall include 1 gauge vessel (closed vessel) 6 ft. dia x 30 ft. long located at 1Y-GS#5, 1 8 ft. dia x 40 ft. long gas/liquid separator, and 1 4 ft. dia x 10 ft. long gas/liquid separator with condensate pumps.
- 4 - The operation shall include noncondensable vapors volume flowrate indicator and noncondensable vapor piping to 36W steam generators S-1128-3, and '29 - '34 (4008031, 4008085 - 090) noncondensables incineration system.
- 5 - The operation shall include diverter valves tying 1Y-CC-1 gas discharge line to the 36W-CC-2 TEOR gas collection network (S-1128-130) and the 31X-CC-1 TEOR gas collection network (S-1128-128), through the 31X oil cleaning plant (S-1128-296).

(CONDITIONS CONTINUE ON THE NEXT PAGE)

This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (805) 861-3682 WHEN CONSTRUCTION OF THE EQUIPMENT IS COMPLETED. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

DAVID L. CROW, EXECUTIVE DIRECTOR/APCO

SEYED SADREDIN, DIRECTOR OF PERMIT SERVICES

Southern Regional Office * 2700 M Street, Suite 275 * Bakersfield, California 93301 * (805) 861-3682 • FAX (805) 861-2060

- 6 - The operation shall include no more than 6 vessels 3 ft. dia x 15 ft. long minimum located at 1Y guage settings 4, 5, 6, 7, 8 and 11.
- 7 - The operation shall include no more than 6 vessels, 3 ft. dia x 6 ft. long minimum, located at 1Y or 36W gas collection settings.
- 8 - The operation shall include no more than 6 fin/fan coolers, minimum dimensions 10 ft. x 30 ft., located at 1Y or 36W gas collection settings.
- 9 - The operation shall include 2 compressors, 100 hp each minimum, located at 1Y or 36W gas collection settings.
- 10 - VOC control efficiency shall be maintained at no less than 99% by weight.
- 11 - Noncondensable vapors shall be incinerated in the 36W steam generators S-1128-3 and '29 - '34 (4008031 and '085 - 090).
- 12 - If incinerating steam generators are inoperative, vapors shall not be vented to atmosphere.
- 13 - Noncondensable vapors shall only be diverted to 36W-CC-2 TEOR gas collection network (PTO S-1128-130) and/or 31X-CC-1 TEOR gas collection network (PTO S-1128-128) if incinerating steam generators are inoperative pursuant to Rule 1100.
- 14 - TEOR gas shall not exceed 4% by volume VOC without prior District approval.
- 15 - Total volume of noncondensable vapors from TEOR system shall not exceed 4.0 MM standard dry cubic feet/day.
- 16 - Total number of stuffing boxes shall not exceed 50 (balance of wells are free flowing thermal wells).
- 17 - Total number of vapor collection system leaks shall not exceed number allowed in Rule 4401.
- 18 - Permittee shall comply with all testing and record keeping requirements of Rule 4401.
- 19 - An inspection and maintenance program consistent with the requirements of Rule 4403 shall be implemented to minimize polish rod/stuffing box fugitive emissions.
- 20 - Noncondensable piping to incineration devices shall be equipped with volume flowrate indicator.
- 21 - All wells producing from strata into which steam has been injected shall be connected to a District approved WVVC system, or shall have closed casing vents and production facilities with District approved vapor control system.
- 22 - Maximum daily VOC emission rate shall not exceed 16.45 lb/day fugitive stuffing box emissions and 246.00 lb/day fugitive vapor collection system emissions (262.45 lb/day total).
- 23 - Listing of all steam enhanced wells connected to system shall be submitted to District 60 days prior to permit renewal.
- 24 - Prior to initial operation of this modification VOC emission offsets shall be provided in the following amounts: Q1 2380.50 lb, Q2 2406.95 lb, Q3 2433.40 lb, and Q4 2433.40 lb.)
- 25 - All conditions on Permit to Operate, not listed on this Authority to Construct, shall be removed upon implementation of this Authority to Construct.



Chevron U.S.A. Production Company
P.O. Box 1392, Bakersfield, CA 93302

March 9, 1993

W. A. Brommelsiek
Manager—Environmental, Safety, Fire & Health
Western Business Unit

**EMISSION REDUCTION CREDITS FOR
INSTALLATION OF CASING
COLLECTION FROM PRE- APRIL 25,
1983 VOC REDUCTIONS
APPLICATION #'S 4008302/501
4008317/501 PROJECT # 921117**

**Mr. Thomas E. Goff
SJVUAPCD - Southern Zone
2700 "M" Street, Suite 275
Bakersfield, Ca 93301**

Attn.: Mr. Robert Rinaldi

Gentlemen:

Chevron is requesting a 90 day extension on SJVUAPDC Project # 921117.
There are several outstanding issues concerning the support documentation that need to be addressed. Several other issues of concern and Chevron's stance on these issues are listed below.

1. ERC Certificates issued by section, township, and range. Chevron agrees to this requirement and will supply the necessary information.
2. Ten percent reduction for community bank. Chevron holds that these reductions were pre 1989, therefore, they are exempt from the community bank allowance requirements under Rule 220.7.0.

If you have further questions please contact Mr. Kelly Skeels at (805) 633-4458.

Sincerely,
K. P. Skeels
W. A. Brommelsiek

Received
PAID

MAR 11 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

KPS

FACSIMILE MESSAGE

ENVIRONMENTAL, SAFETY, FIRE, & HEALTH TEAM

CHEVRON U.S.A. INC.
4900 CALIFORNIA AVENUE
P. O. BOX 1392
BAKERSFIELD, CALIFORNIA 93302

RECEIVED

MAR 10 1993

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

TO: ROBERT RINALDI

LOCATION: SJVU APCD - SOUTHERN ZONE

FROM: KELLY SKEELS DATE: 3/10/93

CONFIRMATION # (SENDER): 633-4458

NUMBER OF PAGES TO FOLLOW: 2

If transmission is interrupted or received incomplete, please contact the confirmation number listed above:

ESF&H
(Room B427)

Facsimile Machine:

(805) 633-4423

Comment(s):

TABLE 3-1

CHEVRON USA INC. CENTRAL SOURCE

HYDROCARBON CREDITS

1	2	3	4	5	6	7	8	9	10	
APCD #	CHEVRON ID	TEST DATE	TOTAL H/C LB/HR	UNCONTROLLED LB/DAY PER WELL	# OF WELLS	LB/DAY OFFSETS @ 99% EFFICIENCY WEIGHTED EMIS FACT	ACTUAL SRCE TEST	APCD CREDITS	REESTABLISH CREDIT (SMALLER)	
302 B	CC-2-9 ✓	7-31-80 ✓	393.81	378.06	25.00	336.18	567.09	374.40	336.18	
303	CC-1-9 ✓	8-4-80	191.50	95.75	48.00	645.47	275.76	715.00	645.47	
305 B	CC-9-3	7-29-80	33.65	62.12	13.00	174.81	48.46	195.00	174.81	
306	CC-3-2 ✓	8-4-80	0.07	0.06	26.00	349.63	0.10	390.00	349.63	
308 B	CT-4-3 ✓	7-29-80	155.42	109.71	34.00	457.20	223.80	510.00	457.20	
310 B	CC-3-3 ✓	7-30-80	164.84	263.74	15.00	201.71	237.37	208.80	201.71	
311	CT-5-3 ✓	11-22-79	798.10	684.09	28.00	376.52	1149.26	418.90	376.52	
313	CC-1-5 ✓	8-5-80	361.70	149.67	58.00	779.94	520.85	877.50	779.94	
315	CT-3-5 ✓	8-6-80	83.88	154.86	13.00	174.81	120.79	222.00	174.81	
316	CT-2-5 ✓	8-5-80	451.70	387.17	28.00	376.52	650.45	463.50	376.52	
322 B	CT-2-4 ✓	7-31-80	188.36	145.83	31.00	416.86	271.24	460.30	416.86	
323	CT-1-4	11-20-79	98.00	58.80	40.00	537.89	141.12	598.00	537.89	
325	CC-3-31 ✓	8-7-80	498.55	412.59	29.00	389.97	717.91	432.50	389.97	
326	CC-2-31 ✓	8-11-80	160.42	770.02	5.00	67.24	231.00			
327	CC-1-31 ✓	8-6-80	54.54	436.32	3.00	40.34	78.54	45.00	40.34	
328	CC-2-32 ✓	8-8-80	79.88	383.42	5.00	67.24	115.03			
329	CC-3-32 ✓	8-7-80	44.80	179.20	6.00	80.68	64.51	85.00	80.68	
330	CC-1-32 ✓	8-8-80	110.77	664.62	4.00	53.79	159.51	40.40	40.40	
331 A	CC-4-32 ✓	8-1-80	105.83	317.49	8.00	107.58	152.40	131.40	107.58	
333 A	CT-1-3 ✓	7-30-80	95.69	135.09	17.00	228.60	137.79	255.00	228.60	
APCD CREDITS BASED ON WEIGHTED AVERAGE				250.00	224.12	TOTALS	5862.97	5862.97	6422.70	5715.11

* Not reestablishing emission credits from these sources.

COLUMN

CALCULATION / SOURCE

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

SOURCE PERMIT SECTION
 " " "
 COLUMN B ATTACHED TABLE
 AVERAGE OF COLUMN F + I FOR EACH SYSTEM - ATTACHED TABLE
 $(F + I) * 24 / *6$
 SOURCE PERMIT SECTION
 $*6 * 224.12 * .06$
 $*4 * *6 * .06$
 $*6 * 250 * .06$

Page 7

WEIGHTED AVERAGE 224.2 #/WELL/DAY = $\frac{\sum (F * 6)}{\sum 6}$
 250 #/WELL/DAY = UNCONTROLLED EMISSION FACTOR (APCD)

99% ACTUAL CONTROL
 -93% REQUIRED CONTROL
 6% REDUCTION CREDIT

SUMMARY
(Selected Results)

A SITE	B DATE	C TIME	D LB/HR RECOVERY			G LB/HR LOSS			J % EFF
			E		F	H		I	
			LT	HC	LIQ	HC	TOTAL	LT	
CT-4-3	7/29	1130	6.03	27.58	33.61	6.03	115	121.0	21.7
	7/29	1345	3.84	27.58	31.42	3.84	121	124.8	20.1
3-CC-1 (CC-9-3)	7/29	1715	0.009	33.63	33.64	0.009	0.02	0.029	99.9
	7/29	1920	0.002	33.63	33.63	0.002	0.0026	0.0046	99.9
CT-1-3	7/30	1050	0.95	~2.56 ^{1/}	3.51	0.95	83.5	84.45	4.0
	7/30	1225	2.13	~2.56	4.69	2.13	96.6	98.73	4.5
CC-3-3	7/30	1515	0.69	161.33	162.02	0.69	2.8	3.49	97.9
	7/30	1730	0.78	161.33	162.11	0.78	1.3	2.08	98.7
CT-2-4	7/31	1100	31.79	95.49	127.28	31.79	242.2	274.0	31.7
	7/31	1255	16.56	95.49	112.05	16.56	246.8	263.4	29.9
CC-2-9	7/31	1535	0.71	391.76	392.47	0.71	0.36	1.07	99.7
	7/31	1730	0.95	391.76	392.71	0.95	0.43	1.38	99.7
CC-4-32	8/1	1200	3.97	82.99	86.96	3.97	11.4	15.37	85.0
	8/1	1315	5.07	82.99	88.06	5.07	16.2	21.27	80.6

^{1/} Not enough sample collected to determine specific gravity.
Assumed 0.0.



San Joaquin Valley Unified Air Pollution Control District

December 11, 1992

Mr. W.A. Brommelsiek
Manger of ESF&H
Chevron U.S.A.
P.O. Box 1392
Bakersfield, CA 93302

Re: Application #'s: 4008302/501 and 4008317/501
Project Description: Emission Reduction Credits for
Installation of Casing Collection
Systems from Pre - April 25, 1983
VOC reductions.

Dear Mr. Brommelsiek:

Your applications for Authority to Construct the above-referenced project have been received by the Air Pollution Control District, and have been reviewed for completeness.

Based on this preliminary review, the applications appear to be complete. However, during processing, the District may request additional information to clarify, correct or otherwise supplement the information on file.

Thank you for your cooperation. Should you have any questions, please telephone Mr. Thomas Goff of Permit Services at (805) 861-3682.

Sincerely,

Seyed Sadredin
Director of Permit Services

Thomas E. Goff, P.E.
Permit Services Manager - Southern Region

RCR

David L. Crow
Executive Director/Air Pollution Control Officer
1999 Tuolumne Street • Fresno, CA 93721 • (209) 497-1000 • Fax (209) 233-2057

Northern Region
4230 Kiernan Avenue • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region
1999 Tuolumne Street • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region
2700 M Street, Suite #275 • Bakersfield, CA 93301
(805) 861-3682 • Fax (805) 861-2060



Chevron U.S.A. Production Company

P.O. Box 1392, Bakersfield, CA 93302

November 13, 1992

W. A. Brommelsiek
Manager—Environmental, Safety, Fire & Health
Western Business Unit

**HYDROCARBON BANKING CERTIFICATES
WESTERN & CENTRAL SOURCE**

Mr. David Crow
SJVUAPCD - Southern Zone
2700 'M' Street, Suite 275
Bakersfield, CA 93301

Attn: Mr. Thomas Goff

Gentlemen:

At this time Chevron is reapplying for Emission Reduction Banking Certificates for 5,715.11 lb/day VOCs for the Central Source and 2,248 lb/day VOCs for the Western Source. (Please note that the original application package for ERCs was submitted prior to the District's March 19, 1992 deadline.) Attached are two applications along with a check for \$1300.00 to cover the filing fees.

Based on the San Joaquin Valley Air Pollution Control District Rule 230.1 Subsection IV.A.2, Emission reductions occurring prior to January 1, 1988 which have been recognized by the District pursuant to a banking rule or for counties that did not have a banking rule that were formally recognized in writing by the District as available for offsets shall be eligible for emissions reduction banking certificates provided....

Kern County Air Pollution Control District's (KCAPCD) Emission Reduction Banking Rule 210.3 was adopted on April 25, 1983. The emission reductions in question actually occurred in 1980, prior to adoption of KCAPCD's Rule 210.3. Additionally, the reductions were recognized by the District when they were added to Chevron's internal profiles. Therefore, the reductions are eligible for Emission Reduction Banking Certificates.

HCRE_ERC.KC

PAID
NOV 16 1992

SAN JOAQUIN VALLEY UNIFIED
APCD—SOUTHERN REGION

History

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile. This amounted to 6434.53 lb/day VOC credits for the Central Source and 3570.62 lb/day VOC credits for the Western Source. These numbers were based on an emission factor of 250 lb VOC/day/well.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had all emission profile credits set to zero.

It was subsequently agreed upon by the KCAPCD and industry that the credits could be reestablished if the offsets that were zeroed were proven to be real, quantifiable, enforceable, and that they had not been used to offset any subsequent projects since originally being established.

In October of 1990 Chevron submitted a report requesting that 5,715.11 lb/day VOC for the Central Source and 2,726.48 lb/day VOC for the Western Source be reestablished. These numbers were based on emission factors of 224.12 lb/day Central and 125.55 lb/day Western. These factors were derived from actual source test information and were lower than the original 250 lb/day/well. The District subsequently reestablished the Western Source offsets, a portion (478.48 lb/day) of which were used to offset a proposed project.

The 5715.11 lb/day for the Central Source were never reestablished even though they were based on the same type of study.

If you have any questions regarding this application package please contact Mr. Kelly Skeels at 633-4458.

Sincerely,

K.P. Skeels Jr.
W. A Bromemelsiek

attachments: ERC Applications (2)
Check

HCRE_ERC.KC

4008 302/501
92117

	Fresno
	Kern
	Kings
	Madera

San Joaquin Valley
Unified Air Pollution Control District

	Merced
	San Joaquin
	Stanislaus
	Tulare

APPLICATION FOR:

- EMISSION REDUCTION CREDIT (ERC) ERC WITHDRAWAL
 CONSOLIDATION OF ERC CERTIFICATES ERC TRANSFER OF OWNERSHIP

1. **ERC TO BE ISSUED TO:**
Chevron U.S.A. Inc.

2. **MAILING ADDRESS:**
 Street/P.O. Box: P.O. Box 1392
 City: Bakersfield State: CA Zip Code: 93302

3. **LOCATION OF REDUCTION:**
 Street: Central Heavy Oil Source - Sections 31 & 32, T28S/R28
 City: and Sections 3, 4, 5, & 9 T29S/R28 *KPS*

4. **DATE OF REDUCTION:** 1980

5. **PERMIT NO(S):** 4008302B, 3038, 305B, 3064, 308B, 3108, 325A
 31A, 3138, 315A, 316, 322B, 323A, 327A
EXISTING ERC NO(S): 329, 330, 331A, 333A

6. **METHOD RESULTING IN EMISSION REDUCTION:**
 SHUTDOWN RETROFIT PROCESS CHANGE OTHER
DESCRIPTION: These are offsets that occurred prior to adoption of KCAPCD Banking Rule 210.3. Actual reduction were from the installation of casing collection systems to control well emissions.
(Use additional sheets if necessary)

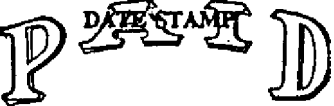
7. **REQUESTED ERCs (In Pounds Per Calendar Quarter):**

	VOC	NOx	CO	PM10	SOx	OTHER
1ST QUARTER	521503.79					
2ND QUARTER	521503.79					
3RD QUARTER	521503.79					
4TH QUARTER	521503.79					

8. **SIGNATURE OF APPLICANT:** *K.P. Steels for W.A. Brommelsiek* **TYPE OR PRINT TITLE OF APPLICANT:** Manager ESF&H

9. **TYPE OR PRINT NAME OF APPLICANT:** W. A. Brommelsiek **DATE:** 11/13/92 **TELEPHONE NO:** 4458 (805) 633-4455

FOR APCD USE ONLY:

 NOV 16 1992 SAN JOAQUIN VALLEY UNIFIED APCD--SOUTHERN REGION	FILING FEE RECEIVED: \$ <u>650.-</u>
	DATE PAID: <u>11-16-92</u>
PROJECT NO.: <u>920225</u>	



Chevron U.S.A. Inc.
P.O. Box 1392, Bakersfield, CA 93302

910425 PROJ. #

Submitted @ meeting 3-9-93

S. C. Woodruff
Manager - Environmental, Safety, Fire & Health
Western Production Business Unit

March 25, 1991

Should not be charged for 107 16/day - Chevron's Document

**ATC PERMIT FOR A VAPOR RECOVERY SYSTEM
ON NEW AND EXISTING HEAVY OIL TANKS AT
THE 31X CENTRAL OIL TREATING PLANT**

Mr. William J. Roddy
Kern County Air Pollution
Control District
2700 "M" Street, Suite 275
Bakersfield, CA 93302

Support

Attention: Mr. Thomas Paxson

Gentlemen:

Attached is a check for \$ 300.00, five applications for Authority to Construct (ATC) permits and a Project Description. The Project Description details Chevron's plans for the installation of a vapor recovery system (VRS) on oil production tanks located at the 31X Central Oil Treating Plant (COTP). Additional information on the heavy oil tank's permit status and on the tank's current Rule 411 VRS requirements follows.

TANK PERMIT STATUS:

EXISTING TANKS:

PTO applications for the existing 31X COTP tanks were submitted to the District as part of the "Memorandum of Understanding". Chevron anticipates receipt of the PTOs for the existing tanks when the (MOU) issues are resolved.

NEW TANKS:

ATC applications for the new 31X COTP tanks have been submitted. The new tanks are being built in order to comply with District Rule 414.8 which requires the control of emissions from oilfield production sumps. Chevron anticipates receipt of the tank ATC permits in August 1991.

After Chevron receives the permits (PTOs/ATCs) for the tanks, the "equipment description" listed on the permits will be modified to include the VRS.

TANK RULE 411 VRS REQUIREMENTS:

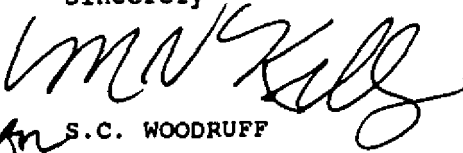
Both the existing heavy oil tanks and the proposed new heavy oil production tanks are currently exempt from District Rule 411 VRS requirements.

Chevron has elected to proceed with the voluntary installation of the VRS on the 31X COTP tanks in order to reduce the potential for employee exposure to tank vapor space hydrogen sulfide (H₂S).

In order to ensure that outstanding questions or issues are resolved prior to the District commencing their engineering review of the project, Chevron request, that at the District's convenience, a meeting be scheduled to discuss the proposed project. Please, advise Mr. Michael Kelly at (805)-334-4457 of the meeting time and location so that he may arrange to attend.

Mr. Kelly will also be available to answer any questions you may have regarding the proposed project.

Sincerely


for S.C. WOODRUFF

Attachments

MVK

bcc: T. F. Harrison w/o attachments
R. M. Dixon w/o attachments
D. K. Jernigan w/o attachments
D. D. Richards w/o attachments

D. M. Muser
R. D. O'Bar
A. H. Schwartz
R. S. Tomlinson

KPS

PROJECT DESCRIPTION

MODIFICATION OF EXISTING
OIL CLEANING PLANT
BY ADDITION OF A VAPOR RECOVERY SYSTEM

31X OCP
SECTION 31 T29S/R22E

A. EXISTING FACILITIES

The 31X Oil Plant contains tanks and miscellaneous support equipment which separate oil from the accompanying produced water and sediment. The oil is sold through a custody transfer unit at the plant. Trace oil is further removed from produced water by a series of tanks and Wemcos at the oil plant. The produced water is then piped to a water filtration and softening plant to condition the water for steam generation and subsequent injection.

There is presently no tank vapor recovery system at the oil plant. The 31X oil plant currently processes heavy oil with API gravity less than 13 and is therefore exempt from rule 411 requirements. Permits for the heavy oil tanks are pending issuance by KCAPCD.

B. PROPOSED MODIFICATION

1. System Overview

Recent testing has shown hydrogen sulfide gas contained in the vapor space of equipment located at the 31X oil plant may pose a potential safety problem. A vapor recovery system (VRS) is therefore proposed to abate the emission of hydrogen sulfide. The vapor recovery system will also result in a decrease of ROG emissions at the 31X oil plant. This is a voluntary reduction of emissions and therefore the fugitive emissions resulting from the vapor recovery system should not be charged to Chevrons Western Heavy Oil Source. In addition, BACT is not required for voluntary projects that reduce emissions.

The Vapor Recovery System will gather, cool, compress and transmit the gas to up to three 31X steam generators (ATC #'s 4008080, 4008081 and 4008082) for incineration. The generators currently incinerate non-condensables from the 31X casing collection setting (ATC # 4008350) and the 5Z/6Z casing collection setting (ATC #4008378). No physical modification of the steam generators will be required. Compliance with emission sampling limits will be documented by annual source test per APCD policy

RULE 411.1 Steam Drive Well Vents - Crude Oil Production

Amended August 27, 1984

I. DEFINITIONS

- A. Complete Application: An application for Authority to Construct a steam drive well vapor collection and control system which includes all design data and specifications necessary for the APCO to make the findings set forth in Rule 208.
- B. Operate: To perform any activity with or on any crude oil production well including, but not limited to pumping, venting, maintaining or repairing.
- C. Photochemically Reactive Organic Compound (PROC): Any compound containing carbon, except carbon monoxide, carbon dioxide, carbonic acid, metallic carbides, carbonates, ethane and methane.
- D. PROC Emissions: Emissions resulting from the operation of a steam drive well. Such emissions include uncondensed casing vent emissions and any emissions resulting from the handling, transfer, storage, or disposal of condensed and uncondensed casing vapors.
- E. Production Zone: A formation or group of formations of oil bearing material beneath the surface of the ground through which steam could migrate from a steam injection well to an oil production well.
- F. Steam Drive Well: Any crude oil production well which produces from the same production zone in which a steam injection well is completed and is either operated by the person injecting the steam or responding to steam injected under a contractual agreement with the operator of the steam injection well, and is within a:
 - 1. 250 foot radius of the steam injection well, if the steam injection well is within a production well pattern of 2-1/2 acres or smaller; or
 - 2. 350 foot radius of the steam injection well, if the steam injection well is within a production well pattern of greater than 2 1/2 acres but 5 acres or smaller; or
 - 3. 500 foot radius of the steam injection well, if the steam injection well is within a production well pattern larger than five acres; or
 - 4. 1,000 foot radius of the steam injection well, if the production well pattern is other than above.

8/27/84

- G. Steam Injection Well: A well into which steam is injected that enhances the production of oil from other wells in the same production zone.

II. EMISSION CONTROL REQUIREMENTS - THE OBJECTIVE OF THESE REQUIREMENTS IS TO LIMIT PROC EMISSIONS FROM STEAM DRIVE WELL VENTS

- A. No person shall operate a steam drive well unless the uncontrolled PROC emissions from the well vent are reduced by at least 99 percent by weight or to no more than 2.2 pounds per day, or
- B. If several steam drive well vents are connected to a vapor control system, total uncontrolled PROC emission shall be reduced by at least 99 percent or PROC emissions shall average no more than 2.2 pounds per day per connected well.
- C. The owner or operator of multiple vapor control systems in either the Central or Western Kern County Oil Fields may demonstrate compliance by reducing total uncontrolled PROC emissions by an average of 99% or by limiting PROC emissions to no more than an average of 2.2 pounds per day per well.
- D. All components of the well vent and vapor control system shall be maintained in good repair. The total number of PROC leaks greater than 10,000 ppm above background when measured one centimeter from the potential source with a portable hydro-carbon detection instrument calibrated with methane is a violation of this Rule if they exceed the following table of allowable leaks:

<u>Number of steam drive wells connected to the vapor control system</u>	<u>Number of allowable leaks</u>
Up to and including 25	3
26 to 50	6
51 to 100	8
101 to 250	10
251 to 500	15
over 500	25

An operator, upon detection of a leak, shall affix a readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired. All leaking components shall be repaired within thirty (30) days. The Control Officer may grant a ten (10) day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Otherwise, the operator must file an application for a variance with the District Hearing Board within the thirty (30) day period.

8/27/84

Rule 411.1 Steam Drive Wells - Crude Oil Production (adopted 6/29/79)

a. For the purpose of this rule:

1. STEAM DRIVE WELL means any well that is a first line production well, to a steam injection well, completed in the same steam zone.

2. FIRST LINE PRODUCTION WELL means any well that is in the first row of wells that would be encountered within:

A. 250 feet radius of the injection well for a $2\frac{1}{2}$ acre or smaller pattern,

B. 350 feet radius of the injection well for a 5 acre pattern, or,

C. 500 feet radius of the injection well for a 10 acre pattern,

operated by the same person injecting the steam or responding to a steam injection well under line well contractual agreement and completed in the same steam zone.

In a steam drive field utilizing an irregular pattern, a first line production well may be any well that exhibits a visible vapor plume containing hydrocarbons, with the casing vent open when the ambient air temperature is 60° F or more.

3. HYDROCARBONS means any compounds of carbon and hydrogen which exists as a liquid at standard conditions.

4. OPERATE means the use of a first line production well for the production of crude oil, including times when the well is not on production. Operate shall not include times when the first line production well is being serviced,

b. A person shall not operate any first line production well unless hydrocarbon emissions from the casing vent are reduced by at least 93% by weight. Compliance with this requirement may be accomplished by one or more of the following methods with concurrence of the Control Officer:

1. Sealing the well casing vent and maintaining it in a no leak condition.

2. Installing, operating and maintaining a hydrocarbon control system.

3. Offsetting hydrocarbon emissions from steam drive well by controlling emissions from other steam drive wells under the same ownership as the subject wells. Emissions from wells to be used as offsets shall be determined by test methods approved by the Control Officer.

c. All piping, valves, fittings and equipment that are a part of the casing vent and hydrocarbon control system shall be installed and maintained in a no leak condition.

- d. The owner or operator of any new steam drive well or any existing crude oil production well converted to a steam drive well completed on or after the date of adoption of this rule shall comply with the provisions of this rule at the time the injection of steam commences. Demonstration for compliance shall be performed no sooner than six months nor more than eight months from the date steam injection commences.

Any new steam drive well or any existing crude oil production well converted to a steam drive well, for which the application for an authority to construct a hydrocarbon control system has been deemed complete by the Control Officer prior to the adoption date of this rule shall be considered as an existing steam drive well and shall comply with the provisions of this rule by following the compliance schedule in section e.

- e. The owner or operator of any steam drive well in existence prior to the date of the adoption of this rule shall be in full compliance with the provisions of this rule by March 1, 1982, and shall comply with the following schedule of increments of progress:
1. By January 1, 1980. Submit to the Control Officer a final control plan which describes, as a minimum, the steps, including construction schedules, that will be taken to achieve compliance with the provisions of this rule and applications for Authority to Construct the proposed control or collection systems.
 2. By July 1, 1980. Document to the Control Officer that contracts or purchase orders for the control or collection system and component parts have been issued.
 3. By October 1, 1980. Initiate on-site construction or installation of control or collection system.
 4. By October 1, 1981. Complete on-site construction or installation of the control or collection system.
 5. By March 1, 1982. Document full compliance.
- f. Emissions of hydrocarbons from any new or existing steam drive well, which is in compliance with the provisions of Section (d) or (e) of this Rule, shall be exempt from the provisions of Rules 404 and 405.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008323A

Date: December 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 20, 1980

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of Existing Well Head Casing Vent Vapor
Recovery System (ID #CT-1-4)

SEE ATTACHED SHEET(S)

Location:

Sec. 4, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By:

For Period: 5-20-80 to 5-20-82

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008323A

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CT-1-4) serving the following 45 wells: 1-2A, 1-4A, 1-6, 1-8, 1-10A, 1-12A, 1-14A, 3-4A, 3-8, 3-10, 3-12, 3-14A, 3-16A, 3-18A, 4-1, 4-6A, 5-2A, 5-4A, 5-6A, 5-8, 5-10A, 5-12A, 5-18A, 6-13, 7-6A, 7-8A (See Below)* including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

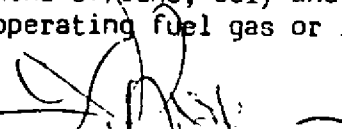
- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

*Wells - 7-10A, 7-20A, 7-22A, 8-2, 8-3, 8-14, 5-16A, 56, 82, 87, 91, 103, 105, 159, 3-3, 40, 133, 106, and 97

KERN COUNTY AIR POLLUTION CONTROL DISTRICT



PERMIT TO OPERATE

1601 "H" STREET, SUITE 250
BAKERSFIELD, CA. 93301-5199
TELEPHONE (805) 861-3682

Number: 4008323(D)

PERMIT TO OPERATE IS HEREBY GRANTED TO: CHEVRON U.S.A., INC.
FOR EQUIPMENT LOCATED AT: Sec. 4, T29S, R28E
EQUIPMENT OR PROCESS DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4

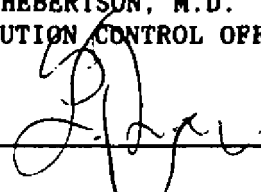
OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By: 

For Period: 02-28-88 TO 02-28-89

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4

- a. Well casing vapors collection piping to the following 131 steam drive wells: 1-1A, 1-4A, 1-5, 1-6, 1-7, 1-8, 1-10A, 1-12A, 1-13, 1-14A, 2-3, 2-14, 3-4A, 3-6, 3-8, 3-10, 3-11, 3-12, 3-14A, 3-16A, 3-18A, 4-1, 4-5, 4-6A, 4-10, 4-12, 4-13, 5-2A, 5-4, 5-4A, 5-6A, 5-8, 5-10A, 5-12A, 7-22A, 7-25, 8-2, 8-3, 8-4, 8-14, 42, 43, 56, 60, 65, 82, 87, 87A, 91, 102A, 103, 104, 105, 106, 131, 159, 3103, 3113, 3114, 3134, 3143, 3153, 3154, 3203, 3204, 3213, 3233, 3234, 3243, 3244, 3273, 3283, 3303, 3304, 3313, 3314, 3323, 3324, 3333, 3334, 3353, 3363, 3364, 3383, 3384, 3403, 3413, 3414, 3424, 3444, 3453, 3454, 3463, 3464, 3473, 3483, 3484, 3494, 3503, 3514, 3534, 3554, 3574, 3594, 4303, 4404, 4423, 4514, and eleven (11) unnumbered wells, (modified)
- b. Well casing vapors collection piping to the following 46 cyclic wells: 1-2, 1-3, 1-11, 2-2, 2-10, 2-11, 2-13, 2-15, 3-3, 3-17, 4-2, 4-6, 4-9, 4-15, 6-2, 6-4, 6-11, 6-12, 7-10, 7-11, 7-12, 7-14, 8-8, 8-17, 41, 48, 52, 53, 58, 63, 64, 68, 69, 77, 84, 88, 94, 97, 132, 133, 136, 137, 139, 157, 158, and 172, (new)
- c. gas/liquid separator,
- d. four air-cooled heat exchangers,
- e. condensate holding vessel with mist eliminator at vapor discharge,
- f. non-condensibles piping to gas burner fuel inlet of steam generators 4008015, -109, -115, -121, -122, -123, -124, and -125 for incineration. (existing)

OPERATIONAL CONDITIONS:

- 1. Non-methane hydrocarbons control efficiency shall be maintained at no less than 99% by weight. (Rules 210.1 & 411.1)
- 2. Collected condensate shall be disposed of to field production facilities only. (Rules 210.1 & 411.1)
- 3. Liquids condensed in non-condensibles piping to steam generators shall be piped to condensate holding vessel only. (Rule 210.1)
- 4. There shall be no more than 10 leaks as defined by Rule 411.1 for entire operation. (Rule 411.1)

CHEVRON U.S.A., INC
Permit #4008323(D)
Page 2

5. Leaks shall be monitored and repaired, and records of such repairs shall be maintained as required by Rule 411.1. (Rule 411.1)
6. If hydrocarbons vapor combustion source is inoperative, well casing vapors shall not be vented to atmosphere. (Rules 210.1 & 411.1)

Disk: Chevron #1



A to C's A,C, & D
Implemented.



KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT TO OPERATE

Number: 4008323

Note: D inspected
after renewed P to O
issued. Next P to O
should reflect Imple-
mentation of D.

A to C's A,C, & D Implemented.

1601 "H" STREET, SUITE 250
BAKERSFIELD, CA. 93301-5199
TELEPHONE (805) 861-3882

PERMIT TO OPERATE IS HEREBY GRANTED TO: CHEVRON U.S.A., INC.
FOR EQUIPMENT LOCATED AT: Sec. 4, T29S, R28E
EQUIPMENT OR PROCESS DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By:

For Period: 2-28-87 TO 2-28-88

CONDITIONAL APPROVAL:

Compliance with all conditions of approval imposed by any applicable Authority to Construct is required for life of this equipment unless modified by application. Equipment authorized by this Permit to Operate shall comply in full with applicable Rule 210.1 requirements and Rule 411.1 plans filed with and approved by KCAPCD.

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4

Including the following equipment and design specifications:

- 50 Steam Drive Wells ___ Cyclic Wells,
- 1 Production well vent vapor collection piping network,
heat exchanger(s),
- 1 gas/liquid separator(s),
- 1 gas compressor(s),
- _____ vapor condenser(s) ___ with mist eliminator,
- 1 air-cooled vapor condenser(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in X steam generator(s) ___ heater treater(s) ___ boiler(s) ___ flare(s).

OPERATIONAL CONDITIONS:

1. Final vapor condenser shall utilize exhaust gas temperature indicator.
2. Mist eliminator shall be maintained in optimum operating condition.
3. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
4. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
5. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

LEON M HEBERTSON, M.D.
 Director of Public Health
 Air Pollution Control Officer
 1601 "H" St., Suite 250
 Bakersfield, California 93301
 Telephone (805) 861-3682

PERMIT
 TO
 OPERATE



Number: 4008323

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A., Inc.
 For equipment located at: Sec. 4, T29S, R28E
 Equipment or Process Description: Thermally Enhanced Oil Recovery Operation #CT-1-4

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

Leon M Hebertson, M.D.
 Air Pollution Control Officer

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By:

S. R. ...

For Period: 2/28/83 To 2/28/84

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4

Including the following equipment and design specifications:

- 44 Steam Drive Wells Cyclic Wells
- 1 Production well vent vapor collection piping network,
 heat exchanger(s),
- 1 gas/liquid separator(s),
- 1 gas compressor(s),
- vapor condenser(s) with mist eliminator
- 1 air-cooled vapor condenser(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in x steam
 generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Final vapor condenser shall utilize exhaust gas temperature indicator.
2. Mist eliminator shall be maintained in optimum operating condition.
3. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
4. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
5. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

Equipment authorized by this Permit to Operate shall comply in full with applicable Rule 210.1 requirements, and 411.1, 424 and 425 plans filed with and approved by KCAPCD. Note: Only Rule 210.1 requirements and 411.1 apply to equipment approved

LEON M. HEBERTSON, M.D.
 Director of Public Health
 Air Pollution Control Officer
 1601 "H" St., Suite 280
 Bakerfield, California 93301
 Telephone (805) 861-3682

PERMIT TO OPERATE



Number: 4008323

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
 For equipment located at: Sec. 4, T29S, R28E
 Equipment or Process Description: Thermally Enhanced Oil Recovery
 Operation #CT-1-4

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
 OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
 AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. B. [Signature]

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-1-4 w/H2S Control System, including the following equipment:

- 44 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- ___ heat exchanger(s),
- 1 ___ gas/liquid separator(s),
- 1 ___ gas compressor(s),
- ___ vapor condensor(s), ___ with mist eliminator,
- 1 ___ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- ___ Condensate storage vessel(s)

Permit Number: 4000. 3

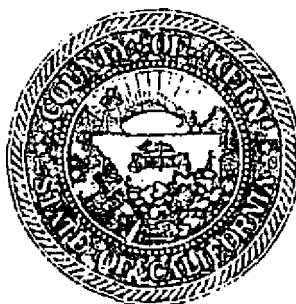
OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 93%.
2. Final vapor condensor shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
6. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 881-3882

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



actually B

Application No.: 4008316A

Date: December 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 20, 1980

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CT-2-5)

SEE ATTACHED SHEET(S)

Location:

Sec. 5, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: [Signature]

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008316A

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CT-2-5) serving the following 33 wells: 5-11A, 7-9A, 9-11A, 11-11A, 13-7A, 13-9A, 15-7A, 15-11A, 15-13A, 88, 89, 91, 99, 155, 94, 95, 98, 133, 134, 145, 146, 149, 151, 152, 153, 164, 168, 170 (See Below)* including the following equipment and design specifications:

PDR
T. PAXSON
6/24/00

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

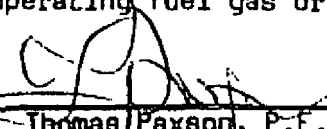
- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

*Wells - 108, 140, 3-6, 11, and 148.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

PERMIT
TO
OPERATE



Number: 4008316

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 5, T29S, R28E
Equipment or Process Description: WELL VENT VAPOR RECOVERY SYSTEM

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

Leon M. Hebertson, M.D.
Air Pollution Control Officer

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By: THOMAS PAXSON

For Period: 2-1-80 To 2-1-81

EQUIPMENT DESCRIPTION: WELL VENT VAPOR RECOVERY SYSTEM serving the following wells: #CT-2-5 - 33 wells, including the following equipment and design specifications:

- a. Production well vent vapor collection and design specifications:
 - heat exchanger(s),
 - gas/liquid separator(s),
 - gas compressor(s),
- b. One vapor condenser(s) with mist eliminator,
- air-cooled vapor condenser(s),
- Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 3.8 %.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT
TO
OPERATE



LEON M HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "M" St., Suite 280
Bakersfield, California 93301
Telephone (805) 331-3602

Number: 4008316

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 5, T29S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CT-2-5

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Bay

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CT-2-5, w/ H2S Control System, including the following equipment:

- 34 Steam drive wells _____ cyclic wells,
- 1 Production well vent vapor collection piping network,
- _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- _____ vapor condensor(s), _____ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) _____ heat treater(s) _____ boiler(s), _____ flare(s).
- 1 Condensate storage vessel(s)

Permit Number: 4008316

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 93%.
2. Final vapor condensor shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.
6. Sulfur compound emission rate shall not exceed 0.2% by volume (2000 ppm).

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

PERMIT
TO
OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008313

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 5, T29S, R28E
Equipment or Process Description: WELL VENT VAPOR RECOVERY SYSTEM

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

Leon M Hebertson, M.D.
Air Pollution Control Officer

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By: THOMAS PAXSON

For Period: 2-1-80 To 2-1-81

EQUIPMENT DESCRIPTION: WELL VENT VAPOR RECOVERY SYSTEM serving the following wells: #CC-1-5 - 62 wells, including the following equipment and design specifications:

- a. Production well vent vapor collection and design specifications:
 - heat exchanger(s),
 - gas/liquid separator(s),
 - gas compressor(s),
- b. One vapor condenser(s) with mist eliminator,
- c. One air-cooled vapor condenser(s),
- Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than 60 %.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

o not in network
Ⓢ Later modification implemented on

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>	
✓ 4008302B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E	✓ S-1127-160-2
- 4008303B				Ⓢ S-1127-161-2
4008329B	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E	OS-1127-183-0
4008330B				OS-1127-184-1
4008331A				S-1127-185-1
✓ 4008305B	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E	S-1127-163-2
✓ 4008306B				S-1127-164-2
✓ 4008308B				S-1127-166-2
✓ 4008310B				S-1127-168-2
✓ 4008311A				S-1127-169-1
4008333A				S-1127-187-1
✓ 4008313B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E	S-1127-171-2
✓ 4008315A				S-1127-173-1
✓ 4008316B				S-1127-174-2
✓ 4008322B	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E	S-1127-176-2
✓ 4008323A				S-1127-177-1
✓ 4008325A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E	S-1127-179-1
✓ 4008327A				S-1127-181-0

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>	
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E	S-1128-116-2
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E	S-1128-117-1
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E	S-1128-118-2
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E	S-1128-128-1
4008343B	S-0059-1	(4008317/505)	Sec. 25 T32S/R23E	S-1128-123-1
S-1128-123-1	4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
S-1128-124-2	4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
S-1128-125-2	4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
S-1128-127-3	4008349C	S-0063-1	(4008317/509)	Sec. 15 T31S/R22E
		*S-0059-1	(4008317/505)	

See phone conversation dated 9/14/93 with Kelly Skeels

* See Chevron letter dated June 28, 1993

ORIG FACIL = 1127
2

NEW FILE REQUEST FORM

Processor Initials: RCR Today's Date: 5/13/93
Company Name: Chevron U.S.A. Production Company Project #: ~~920255~~ 920255
UD #: S-0037-1, S-0038-2 & S-56-1 Kern #: 4008302/501 to 4008302/506
to S-68-1 4008317/501 to 4008317/509
Description: BANK UOL ERC's FOR PAF-4125/83 Well Vent Control Systems
~~Western Kern County Oil Fields~~
~~Western Kern County Oil Fields~~

- (1) ~~Western Kern County Oil Fields~~
- (2) Location: Western Kern County Oil Fields S T R

PTO/Type _____ ATC/Year _____ ERC/Year 93

Folder Size: Regular Pocket

Support documents included with request form? No Yes

Return File to Permit Processor: No Yes

PHV

(Addendum to)
ERC APPLICATION REVIEW

Project # 920255

Applicant:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

ERC to be issued to:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

Contact: Kelly Skeels
(805) 633-4458

ERC Application #'s 0

UD#: S-0037-1, S-0038-1,
S-0064-1, S-0056-1,
S-0065-1, S-0057-1,
S-0066-1, S-0058-1,
S-0067-1, S-0059-1,
S-0068-1, S-0060-1,
S-0061-1,
S-0062-1,
S-0063-1,

Date Deemed Complete: 12/11/92

Project Evaluation by: Robert Rinaldi, AQE II
Started 02/10/93
Finished 05/11/93
Reviewed by: *JR* Date: *9/27/94*

This addendum is the original evaluation with additional discussion in areas where ARB had comments during their audit. (original evaluation attached) *

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

I. SUMMARY:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

The following emission reductions have been found to qualify for banking (see page 7 for permit #'s that correspond with ERC numbers listed below):

ERC certificate quantities (quarterly basis)

A. Central Stationary Source

1. ERC# S-0037-1

	<u>VOC (lb/qtr)</u>
1st Quarter	88349
2nd Quarter	89330
3rd Quarter	90312
4th Quarter	90312

2. ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

3. ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

4. ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

5. ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

6. ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

Total Central Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	514360
2nd Quarter	520075
3rd Quarter	525790
4th Quarter	525790

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

B. Western Stationary Source

1. ERC# S-0038-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18178
2nd Quarter	18380
3rd Quarter	18582
4th Quarter	18582

2. ERC# S-0056-1

	<u>VOC (lb/qtr)</u>
1st Quarter	19110
2nd Quarter	19322
3rd Quarter	19535
4th Quarter	19535

3. ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	29958
2nd Quarter	30290
3rd Quarter	30623
4th Quarter	30623

4. ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21822
2nd Quarter	22064
3rd Quarter	22307
4th Quarter	22307

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

5. ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	2381
2nd Quarter	2407
3rd Quarter	2433
4th Quarter	2433

6. ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	310
2nd Quarter	314
3rd Quarter	317
4th Quarter	317

7. ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	8940
2nd Quarter	9039
3rd Quarter	9138
4th Quarter	9138

8. ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3310
2nd Quarter	3347
3rd Quarter	3384
4th Quarter	3384

* ERC# S-0059-1 is the result of splitting ERC# S-0063-1 as requested by the applicant. See Chevron letter dated June 28, 1993

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

10. ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18763
2nd Quarter	18972
3rd Quarter	19181
4th Quarter	19181

Total Western Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	122772
2nd Quarter	124136
3rd Quarter	125488
4th Quarter	125488

II. APPLICABLE RULES:

Rule 220.1 - New Source Review (Adopted 9/19/91, revised 3/11/92)

Rule 230.1 - Emission Reduction Credit Banking (3/11/92)

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008302B 4008303B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
4008329B 4008330B 4008331A	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
4008305A 4008306B 4008308B 4008310B 4008311A 4008333A	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
4008313B 4008315A 4008316B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
4008322B 4008323A	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
4008325A 4008327A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1 *S-0059-1	(4008317/509) (4008317/505)	Sec. 15 T31S/R22E

*** ERC# S-0059-1 is the result of splitting ERC# S-0063-1 as requested by the applicant. See Chevron letter dated June 28, 1993**

IV. METHOD OF GENERATING REDUCTIONS:

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile. This amounted to 6434.53 lb/day VOC credits for the Central Source and 3570.62 lb/day VOC credits for the Western Source. These numbers were based on an emission factor of 250 lb VOC/day/well.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had negative emission profile credits set to zero.

The KCAPCD rule provided for reestablishment of reductions that were zeroed provided it was demonstrated the reductions were real, quantifiable, enforceable, permanent and had not been used to offset any subsequent projects.

In October of 1990 Chevron submitted a report requesting that 5,715.11 lb/day VOC for the Central Source and 2,726.48 lb/day VOC for the Western Source be reestablished (lower amounts than reductions quantified in 1980, above). These numbers were based on emission factors of 224.12 lb/day/well Central and 125.55 lb/day/well Western, and baseline emissions are assumed to be these daily amounts per day per well over the two years prior to submittal of application for KCAPCD Rule 411.1 compliance plan listed above. These emission factors appear reasonable as ARB's August 1989 Technical Guidance Document (attached) report steam drive wells as having an emission factor 220 lb VOC/day/well. These emission factors were derived from actual source test information and the District reestablished the Western Source offsets, a portion of which were used to offset a proposed project (4008591 to '600 - New Steam Generators).

ATC# 4008591-600, project number 910411, reestablishes 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable (engineering evaluation is in the appendix, page 1a through 1vv). Although Chevron submitted a similar study with project 910411 for the Central Stationary Source, emission reductions were not reestablished as no project was proposed which required the reductions.

This evaluation will verify the amount of emission reductions (Western and Central) that were used to offset subsequent projects and validate previous analysis performed for the Western Stationary Source and Central Stationary Source reductions as real, quantifiable, permanent and enforceable.

V. CALCULATIONS:

A. Central Stationary Source, ERC# S-0037-01, S-0064-1 to S-0068-1

1. Quantity of offsets reestablished from reductions in Central Stationary Source.

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor for the Central sources was found to be 224.12 lb/day VOC; lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, multiplied by the excess control efficiency of 6 percent, multiplied by the number of wells in service, yields the quantity of emission credits available based on actual source test data. This amount is shown below in column titled "Credits Based on weighted E.F.". The credits originally recognized by the District are shown in the column titled "APCD Credits". The applicant has requested the lower of these amounts be banked. The requested amount to be banked is shown in the column titled "Requested to be Banked".

<u>ATC #</u>	<u># Wells</u>	<u>Credits Based on Weighted E.F.</u>	<u>APCD Credits</u>	<u>Request to be Banked</u>
4008302B	25	336.18	374.40	336.18
4008303B	48	645.47	715.00	645.47
4008305B	13	174.81	195.00	174.81
4008306B	26	349.63	390.00	349.63
4008308B	34	457.20	510.00	457.00
4008310B	15	201.71	208.80	201.71
4008311A	28	376.52	418.90	376.52
4008313B	58	779.94	877.50	779.94
4008315A	13	174.81	222.00	174.81
4008316B	28	376.52	463.50	376.52
4008322B	31	416.86	460.30	416.86
4008323A	40	537.89	598.00	537.89
4008325A	29	389.97	432.50	389.97
4008327A	3	40.34	45.00	40.34
4008329B	6	80.68	85.00	80.68
4008330B	4	53.79	40.40	40.40
4008331A	8	107.58	131.40	107.58
4008333A	17	228.60	255.00	228.60
Total		5862.97	5781.40	5715.11

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal.

2. **Subsequent projects using emission reductions.**

The reestablishment test in appendix, page 3 through 24 shows Chevron may claim all proposed reductions as surplus.

3. **Remaining reductions eligible for Emission Reduction Credits**

Rule 2201 requires that AER's be quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data (See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal). This type of emission source (well vent casing collection system) operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. **Community Bank Adjustment**

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

B. Western Stationary Source, ERC# S-0038-01, S-0056-1 to S-0063-1

1. **Quantity of offsets reestablished from reductions in Western Stationary Source.**

ATC# 4008591-600, project number 910411, reestablished 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable. (engineering evaluation is in the appendix, pages 1a through 1vv)

2. **Subsequent projects using reestablished emission reductions**

From the reestablishment test in appendix pages 25 through 47, project # 910606 would have exceeded the 150 #/day trigger for offsets in the Rule at that time. Therefore the emissions increase from this project in excess of 150 lb/day is not surplus. The reestablishment test shows Chevron exceeded the 150 lb/day trigger by 531.18 lb/day.

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

The applicant concurs with this finding (see Chevron letter dated May 7, 1993 in appendix, pages 137 to 169) and has requested the deficit offsets be evenly subtracted from all ERC locations in the Western Stationary Source. Each location was discounted by:

$$\frac{531.18 \text{ lb/day}}{8 \text{ locations}} = 66.4 \text{ lb/day}$$

3. Remaining reductions eligible for Emission Reduction Credits

ERC's are quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data. This type of emission source, well vent casing collection system operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

VI. COMPLIANCE:

A. Rule 220.1 Actual Emission Reduction Requirements:

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources" The report contains source test data and addresses District requirements to show emission reductions are real, permanent, quantifiable, surplus, and enforceable. The report was submitted to satisfy mitigation requirements for installation of 10 new steam generators.

Due to the large volume of data in this report only random reductions were verified, the rest were assumed to be correct. The original documents are contained in the file for ATC's 4008591-600, project # 910411 "support documents" titled "Reestablish VOC Offsets for Central and Western Sources".

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

The following is a random row of data from calculation summary listed in table 3-1 (table in appendix, pg 48) found in Chevron's report.

APCD #	Chevron ID	Test Date	Uncontrolled		# of wells	Lb/day offsets @ 99% Eff.		APCD crdts	Restab crdts
			Total HC lb/d	Lb/day Per well		Weighted Emis Fact	Actual Src tst		
4008 305B	CC-9-3	7/80	33.65	62.12	13	174.81	48.46	195	174.81

1. Verification of APCD # and that ATC was implemented

ATC# 4008305B appears in the stationary source cumulative net change as a reduction, all proposed ATC #'s were verified as being recognized reductions in the cumulative net change table. (see page from APCD generated NSR balance in appendix, pages 50 to 96, pertinent ATC's are underlined). The computer permit tracking system shows that initial compliance for this ATC was established and a Permit to Operate was granted. The computer system (printouts are in appendix, pages 97 to 112) indicates all other proposed reductions and corresponding ATC's except 4008327A, '329B, and '330B were implemented & issued permits. Kelly Skeels of Chevron submitted a letter dated April 30, 1993 explaining why the alphas A, B, & B for these PTOs were not implemented. The District issued PTO's with out alphas including requirements for vapor recovery (PTO's and letter are in correspondence part of the file). It appears this was an administrative error by the District. These PTO's should be issued with the proper alpha. The District records for these PTO's will be corrected to reflect the actual permit alphas.

2. Verification of Chevron I.D. #

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources". The "Test Permits" section for the Central source was used to verify Chevron I.D.#'s matched District permitted # of wells.

3. Verification of Test date

The test date for ATC# 4008305B was confirmed in the "Summary" part of Chevron's source test report (see appendix page 49). It will be assumed the rest of the dates are accurate.

4. Verification of Total HC lb/day (From source test summary in appendix, page 49)

$$\frac{(33.64 + 0.029) + (33.63 + 0.0046)}{2} = 33.65$$

2

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day values are accurate.

5. Verification of lb/day per well

For ATC# 4008305B:
$$\frac{(33.63 + .0046) * 24 \text{ hr/day}}{13 \text{ wells}} = 62.12 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day per well values are accurate.

6. Verification of # of wells

The status records for referenced PTO#'s were retrieved from the computer permit tracking system and in all cases the number of wells claimed for emission reductions were less than or equal to the quantity permitted. Therefore the # of wells Chevron is requesting reductions is an accurate and conservative number.

7. Verification of Weighted Emission Factor

Weighted Average =

$$\frac{\text{Summation of (Uncontrolled LB/DAY Per Well x \# of wells)}}{\text{Summation of \# of wells}} =$$

$$\frac{(97716.32)^{****}}{436} = 224.12 \text{ \#/well/day}$$

**** See page 48A in appendix for calculation of this value

This value agrees with Chevron's calculated value and is more conservative than the District's factor of 250 #/well/day

8. Verification of Credits Based on Weighted E.F.

Credits Based on Weighted Emission Factor =

$$\# \text{ of wells} \times 224.1 \times \frac{(99\% - 93\%)}{100}$$

For PTO# 4008305B
$$13 \times 224.1 \times 0.06 = 174.8 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the weighted emission factors are accurate.

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

9. Verification of offsets generated from actual source test

$$\text{lb/day per well} \times \# \text{ of wells} \times \frac{(99\% - 93\%)}{100}$$

$$62.12 \times 13 \times .06 = 48.5 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the actual source test information is accurate. This calculation seems to be for informational purposes only, as the applicant is proposing to calculate emission reductions using the conservative weighted emission factor (above). The sum of the "weighted emission factors" (table 3-1 in appendix) are the same as the sum of the "actual source test" data even though weighted emission factors and actual source test data values vary for isolated permits. This verifies the accuracy of the weighted emission factor.

10. Verification of APCD credits

$$\# \text{ of wells} \times 250 \times \frac{(99\% - 93\%)}{100} =$$

$$13 \times 250 \times .06 = 195 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the originally approved APCD credits are correct.

11. Verification of Reestablished Credits

The applicant is proposing to use the actual weighted emission factor to calculate reductions. In all cases this value is lower than the 250 lb/day/well used in the original calculations.

B. Rule 230.1 Emission Reduction Credit Eligibility Requirements:

For emission reductions to qualify for ERC certificates, reductions must be:

1. **REAL, ie. actually occurred and not transferred to another emission unit(s).**

The credits requested are real as Chevron is currently incinerating all casing head gas from the casing gas collection systems in district approved steam generators and source tests indicate HC emission limits are not being exceeded. Permits to Operate have been granted for all Authorities to Construct.

2. **SURPLUS, ie. not required or encumbered by any laws, rules, regulations, or already used as offsets.**

If the summation (excluding the reduction in question) of the emission rate changes (since 9/12/79) never at any point equals or exceeds the applicable trigger for BACT or offsets (+150 lb/day prior 7/1/91 and 0 lb/day from 7/1/91 to 9/18/91). The selected emission reduction is surplus provided that it was proposed before any rule would have required the reduction.

The summation explained above was performed on the cumulative net change table for the Western and Central Stationary Sources (see "Reestablishment tests for HC" in appendix, pages 3 to 48). No trigger levels were exceeded in the central source. In the western source emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This amount was subtracted from the proposed reductions to be banked as not surplus (see CALCULATIONS section above).

Therefore emission reductions are surplus.

3. **PERMANENT, ie. can be enforced by permit conditions.**

The credits requested are permanent as maintenance of controls has been made condition of the permits to operate.

4. **QUANTIFIABLE, ie. source test data, fuel consumption or process weight information, recognized emission factors, or other data approved by the Control Officer is available to accurately determine the emissions during the baseline period.**

The credits requested are quantifiable based on source tests performed on emission units.

5. **ENFORCEABLE, ie. can be enforced by applicable permit conditions.**

Same discussion as "permanent" above. The emission reduction is enforceable.

6. **TIMELY,**

Pursuant to "Eligibility of Emission Reductions" requirements for recognizing reductions in the banking rule adopted September 19, 1991 (rule in appendix, pages 127 to 132), subsection IV.A.2.a states that applications requesting ERC's for emission reductions prior to January 1, 1988 must be submitted within 180 days of date of rule adoption (i.e. by March 16, 1993). Chevron submitted an application March 16, 1992.

This establishes compliance with timeliness requirements in Rule 230.1 (adopted September 19, 1991). The application was deemed complete

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

prior to adoption of the December 17, 1992 revision of the banking rule. Therefore it will not be subject to Rule's 2301 discounting or mitigation measures in the amended rule.

7. INCLUDED in or have been added to the 1987 emissions inventory,

District planning staff will be notified of these reductions upon issuance for inclusion in AQAP updates (copy of memo to planning department in appendix pages 170 to 176)

VII. RECOMMENDATION:

- A. Because these emissions reductions can be validated as Actual Emission Reductions, and have been calculated in accordance with the requirements of Rules 2201 and 2301, they qualify for an ERC banking certificate and may be used in accordance with the requirements of Rule 2201.
- B. The proposed emissions reductions are real, surplus, permanent, quantifiable and enforceable.
- C. Application requested a 90 day extension to resolve some discrepancies in original submittal and to decide (and review) what to do about the findings from the reestablishment test. The emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This increase was subtracted from the proposed reductions to be banked (shown in CALCULATIONS section above).
- D. After the appropriate public comment period, issue ERC Banking Certificates in the quantities shown in the Summary section, above.

ERC APPLICATION REVIEW

Project # 920255

Applicant:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

ERC to be issued to:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

Contact: Kelly Skeels
(805) 633-4458

ERC Application #'s

UD#: S-0037-1, S-0038-1,
S-0064-1, S-0056-1,
S-0065-1, S-0057-1,
S-0066-1, S-0058-1,
S-0067-1, S-0059-1,
S-0068-1, S-0060-1,
S-0061-1,
S-0062-1,
S-0063-1,

Date Deemed Complete: 12/11/92

Project Evaluation by: Robert Rinaldi, AQE II
Started 02/10/93
Finished 05/11/93
Reviewed by: RR Date: 6/9/93

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

I. SUMMARY:

The following emission reductions have been found to qualify for banking:

ERC certificate quantities (quarterly basis)

A. Central Stationary Source

1. ERC# S-0037-1

	<u>VOC (lb/qtr)</u>
1st Quarter	88349
2nd Quarter	89330
3rd Quarter	90312
4th Quarter	90312

2. ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

3. ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

✓ 4. ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

✓ 5. ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

✓ 6. ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

Total Central Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	514360
2nd Quarter	520075
3rd Quarter	525790
4th Quarter	525790

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

B. Western Stationary Source

1. ERC# S-0038-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18178
2nd Quarter	18380
3rd Quarter	18582
4th Quarter	18582

2. ERC# S-0056-1

	<u>VOC (lb/qtr)</u>
1st Quarter	19110
2nd Quarter	19322
3rd Quarter	19535
4th Quarter	19535

3. ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	29958
2nd Quarter	30290
3rd Quarter	30623
4th Quarter	30623

4. ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21822
2nd Quarter	22064
3rd Quarter	22307
4th Quarter	22307

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

5. ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	2381
2nd Quarter	2407
3rd Quarter	2433
4th Quarter	2433

6. ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	310
2nd Quarter	314
3rd Quarter	317
4th Quarter	317

7. ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	8940
2nd Quarter	9039
3rd Quarter	9138
4th Quarter	9138

8. ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3310
2nd Quarter	3347
3rd Quarter	3384
4th Quarter	3384

* See Chevron letter dated June 28, 1993 - This ERC is result of
splitting S-63-1 @ (at location S15, T31S/R22E)
Page 5

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

10. ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18763
2nd Quarter	18972
3rd Quarter	19181
4th Quarter	19181

Total Western Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	122772
2nd Quarter	124136
3rd Quarter	125488
4th Quarter	125488

II. APPLICABLE RULES:

Rule 220.1 - New Source Review (Adopted 9/19/91, revised 3/11/92)

Rule 230.1 - Emission Reduction Credit Banking (3/11/92)

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
/ 4008302B / 4008303B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
4008329B 4008330B 4008331A	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
/ 4008305B / 4008306B / 4008308B / 4008310B / 4008311A 4008333A	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
/ 4008313B / 4008315A / 4008316B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
/ 4008322B / 4008323A	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
/ 4008325A / 4008327A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008343B	S-0059-1	(4008317/505)	Sec. 25 T32S/R23E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1 *S-0059-1	(4008317/509) (4008317/505)	Sec. 15 T31S/R22E

*This ATC not implemented
See phone conversation dated 9/1/93 with Kelly Skeels
Therefore remove from list of reductions*

* See Chevron letter dated June 28, 1993

IV. METHOD OF GENERATING REDUCTIONS:

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile. This amounted to 6434.53 lb/day VOC credits for the Central Source and 3570.62 lb/day VOC credits for the Western Source. These numbers were based on an emission factor of 250 lb VOC/day/well.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had negative emission profile credits set to zero.

The KCAPCD rule provided for reestablishment of reductions that were zeroed provided it was demonstrated the reductions were real, quantifiable, enforceable, permanent and had not been used to offset any subsequent projects.

In October of 1990 Chevron submitted a report requesting that 5,715.11 lb/day VOC for the Central Source and 2,726.48 lb/day VOC for the Western Source be reestablished. These numbers were based on emission factors of 224.12 lb/day Central and 125.55 lb/day Western. These emission factors were derived from actual source test information and the District reestablished the Western Source offsets, a portion of which were used to offset a proposed project (4008591 to '600 - New Steam Generators)

ATC# 4008591-600, project number 910411, reestablishes 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable (engineering evaluation is in the appendix, page 1a through 1v). Although Chevron submitted a similar study with project 910411 for the Central Stationary Source, emission reductions were not reestablished as no project was proposed which required the reductions.

This evaluation will verify the amount of emission reductions (Western and Central) that were used to offset subsequent projects and validate previous analysis performed for the Western Stationary Source and Central Stationary Source reductions as real, quantifiable, permanent and enforceable.

V. CALCULATIONS:

A. Central Stationary Source, ERC# S-0037-01, S-0064-1 to S-0068-1

1. Quantity of offsets reestablished from reductions in Central Stationary Source.

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor for the Central sources was found to be 224.12 lb/day VOC; lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, multiplied by the excess control efficiency of 6 percent, multiplied by the number of wells in service, yields the quantity of emission credits available based on actual source test data. This amount is shown below in column titled "Credits Based on weighted E.F.". The credits originally recognized by the District are shown in the column titled "APCD Credits". The applicant has requested the lower of these amounts be banked. The requested amount to be banked is shown in the column titled "Requested to be Banked".

<u>ATC #</u>	<u># Wells</u>	<u>Credits Based on Weighted E.F.</u>	<u>APCD Credits</u>	<u>Request to be Banked</u>
4008302B	25	336.18	374.40	336.18
4008303B	48	645.47	715.00	645.47
4008305B	13	174.81	195.00	174.81
4008306B	26	349.63	390.00	349.63
4008308B	34	457.20	510.00	457.00
4008310B	15	201.71	208.80	201.71
4008311A	28	376.52	418.90	376.52
4008313B	58	779.94	877.50	779.94
4008315A	13	174.81	222.00	174.81
4008316B	28	376.52	463.50	376.52
4008322B	31	416.86	460.30	416.86
4008323A	40	537.89	598.00	537.89
4008325A	29	389.97	432.50	389.97
4008327A	3	40.34	45.00	40.34
4008329B	6	80.68	85.00	80.68
4008330B	4	53.79	40.40	40.40
4008331A	8	107.58	131.40	107.58
4008333A	17	<u>228.60</u>	<u>255.00</u>	<u>228.60</u>
Total		5862.97	5781.40	5715.11 ✓

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal.

2. Subsequent projects using emission reductions.

The reestablishment test in appendix, page 3 through 24 shows Chevron may claim all proposed reductions as surplus.

3. Remaining reductions eligible for Emission Reduction Credits

Rule 2201 requires that AER's be quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data (See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal). This type of emission source (well vent casing collection system) operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

B. Western Stationary Source, ERC# S-0038-01, S-0056-1 to S-0063-1

1. Quantity of offsets reestablished from reductions in Western Stationary Source.

ATC# 4008591-600, project number 910411, reestablished 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable. (engineering evaluation is in the appendix, pages 1a through 1vv)

2. Subsequent projects using reestablished emission reductions

From the reestablishment test in appendix pages 25 through 47, project # 910606 would have exceeded the 150 #/day trigger for offsets in the Rule at that time. Therefore the emissions increase from this project in excess of 150 lb/day is not surplus. The reestablishment test shows Chevron exceeded the 150 lb/day trigger by 531.18 lb/day.

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

The applicant concurs with this finding (see Chevron letter dated May 7, 1993 in appendix, pages 137 to 169) and has requested the deficit offsets be evenly subtracted from all ERC locations in the Western Stationary Source. Each location was discounted by:

$$\frac{531.18 \text{ lb/day}}{8 \text{ locations}} = \frac{59.02 \text{ lb/day}}{9 \text{ locations}} \quad 66.398$$

3. Remaining reductions eligible for Emission Reduction Credits

ERC's are quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data. This type of emission source, well vent casing collection system operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

VI. COMPLIANCE:

A. Rule 220.1 Actual Emission Reduction Requirements:

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources" The report contains source test data and addresses District requirements to show emission reductions are real, permanent, quantifiable, surplus, and enforceable. The report was submitted to satisfy mitigation requirements for installation of 10 new steam generators.

Due to the large volume of data in this report only random reductions were verified, the rest were assumed to be correct. The original documents are contained in the file for ATC's 4008591-600, project # 910411 "support documents" titled "Reestablish VOC Offsets for Central and Western Sources".

The following is a random row of data from calculation summary listed in table 3-1 (table in appendix, pg 48) found in Chevron's report.

APCD #	Chevron ID	Test Date	Uncontrolled		# of wells	Lb/day offsets @ 99% Eff.		APCD crdts	Restab crdts
			Total HC lb/d	Lb/day Per well		Weighted Emis Fact	Actual Src tst		
4008 305B	CC-9-3	7/80	33.65	62.12	13	174.81	48.46	195	174.81

1. Verification of APCD # and that ATC was implemented

ATC# 4008305B appears in the stationary source cumulative net change as a reduction, all proposed ATC #'s were verified as being recognized reductions in the cumulative net change table. (see page from APCD generated NSR balance in appendix, pages 50 to 96, pertinent ATC's are underlined). The computer permit tracking system shows that initial compliance for this ATC was established and a Permit to Operate was granted. The computer system (printouts are in appendix, pages 97 to 112) indicates all other proposed reductions and corresponding ATC's except 4008327A, '329B, and '330B were implemented & issued permits. Kelly Skeels of Chevron submitted a letter dated April 30, 1993 explaining why the alphas A, B, & B for these PTO's were not implemented. The District issued PTO's with out alphas including requirements for vapor recovery (PTO's and letter are in correspondence part of the file). It appears this was an administrative error by the District. These PTO's should be issued with the proper alpha. The District records for these PTO's will be corrected to reflect the actual permit alphas.

2. Verification of Chevron I.D. #

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources". The "Test Permits" section for the Central source was used to verify Chevron I.D.#'s matched District permitted # of wells.

3. Verification of Test date

The test date for ATC# 4008305B was confirmed in the "Summary" part of Chevron's source test report (see appendix page 49). It will be assumed the rest of the dates are accurate.

4. Verification of Total HC lb/day (From source test summary in appendix, page 49)

$$(33.64 + 0.029) + (33.63 + 0.0046) = 33.65$$

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day values are accurate.

5. Verification of lb/day per well

For ATC# 4008305B:

$$\frac{(33.63 + .0046) * 24 \text{ hr/day}}{13 \text{ wells}} = 62.12 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day per well values are accurate.

6. Verification of # of wells

The status records for referenced PTO#'s were retrieved from the computer permit tracking system and in all cases the number of wells claimed for emission reductions were less than or equal to the quantity permitted. Therefore the # of wells Chevron is requesting reductions is an accurate and conservative number.

7. Verification of Weighted Emission Factor

Weighted Average =

$$\frac{\text{Summation of (Uncontrolled LB/DAY Per Well x \# of wells)}}{\text{Summation of \# of wells}} =$$

$$\frac{(97716.32)^{****}}{436} = 224.12 \text{ \#/well/day}$$

**** See page 48A in appendix for calculation of this value

This value agrees with Chevron's calculated value and is more conservative than the District's factor of 250 #/well/day

8. Verification of Credits Based on Weighted E.F.

Credits Based on Weighted Emission Factor =

$$\# \text{ of wells} \times 224.1 \times \frac{(99\% - 93\%)}{100}$$

For PTO# 4008305B

$$13 \times 224.1 \times 0.06 = 174.8 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the weighted emission factors are accurate.

9. Verification of offsets generated from actual source test

$$\text{lb/day per well} \times \# \text{ of wells} \times \frac{(99\% - 93\%)}{100}$$

$$62.12 \times 13 \times .06 = 48.5 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the actual source test information is accurate. This calculation seems to be for informational purposes only, as the applicant is proposing to calculate emission reductions using the conservative weighted emission factor (above). The sum of the "weighted emission factors" (table 3-1 in appendix) are the same as the sum of the "actual source test" data even though weighted emission factors and actual source test data values vary for isolated permits. This verifies the accuracy of the weighted emission factor.

10. Verification of APCD credits

$$\# \text{ of wells} \times 250 \times \frac{(99\% - 93\%)}{100} =$$

$$13 \times 250 \times .06 = 195 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the originally approved APCD credits are correct.

11. Verification of Reestablished Credits

The applicant is proposing to use the actual weighted emission factor to calculate reductions. In all cases this value is lower than the 250 lb/day/well used in the original calculations.

B. Rule 230.1 Emission Reduction Credit Eligibility Requirements:

For emission reductions to qualify for ERC certificates, reductions must be:

1. REAL, ie. actually occurred and not transferred to another emission unit(s).

The credits requested are real as Chevron is currently incinerating all casing head gas from the casing gas collection systems in district approved steam generators and source tests indicate HC emission limits are not being exceeded. Permits to Operate have been granted for all Authorities to Construct.

2. **SURPLUS**, ie. not required or encumbered by any laws, rules, regulations, or already used as offsets.

If the summation (excluding the reduction in question) of the emission rate changes (since 9/12/79) never at any point equals or exceeds the applicable trigger for BACT or offsets (+150 lb/day prior 7/1/91 and 0 lb/day from 7/1/91 to 9/18/91). The selected emission reduction is surplus provided that it was proposed before any rule would have required the reduction.

The summation explained above was performed on the cumulative net change table for the Western and Central Stationary Sources (see "Reestablishment tests for HC" in appendix, pages 3 to 48). No trigger levels were exceeded in the central source. In the western source emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This amount was subtracted from the proposed reductions to be banked as not surplus (see CALCULATIONS section above).

Therefore emission reductions are surplus.

3. **PERMANENT**, ie. can be enforced by permit conditions.

The credits requested are permanent as maintenance of controls has been made condition of the permits to operate.

4. **QUANTIFIABLE**, ie. source test data, fuel consumption or process weight information, recognized emission factors, or other data approved by the Control Officer is available to accurately determine the emissions during the baseline period.

The credits requested are quantifiable based on source tests performed on emission units.

5. **ENFORCEABLE**, ie. can be enforced by applicable permit conditions.

Same discussion as "permanent" above. The emission reduction is enforceable.

6. **TIMELY**,

Pursuant to "Eligibility of Emission Reductions" requirements for recognizing reductions in the banking rule adopted September 19, 1991 (rule in appendix, pages 127 to 132), subsection IV.A.2.a states that applications requesting ERC's for emission reductions prior to January 1, 1988 must be submitted within 180 days of date of rule adoption (i.e. by March 16, 1993). Chevron submitted an application March 16, 1992.

This establishes compliance with timeliness requirements in Rule 230.1 (adopted September 19, 1991). The application was deemed complete

prior to adoption of the December 17, 1992 revision of the banking rule. Therefore it will not be subject to Rule's 2301 discounting or mitigation measures in the amended rule.

7. INCLUDED in or have been added to the 1987 emissions inventory,

District planning staff will be notified of these reductions upon issuance for inclusion in AQAP updates (copy of memo to planning department in appendix pages 170 to 176)

VII. RECOMMENDATION:

- A. Because these emissions reductions can be validated as Actual Emission Reductions, and have been calculated in accordance with the requirements of Rules 2201 and 2301, they qualify for an ERC banking certificate and may be used in accordance with the requirements of Rule 2201.
- B. The proposed emissions reductions are real, surplus, permanent, quantifiable and enforceable.
- C. Application requested a 90 day extension to resolve some discrepancies in original submittal and to decide (and review) what to do about the findings from the reestablishment test. The emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This increase was subtracted from the proposed reductions to be banked (shown in CALCULATIONS section above).
- D. After the appropriate public comment period, issue ERC Banking Certificates in the quantities shown in the Summary section, above.

Chevron USA, ERC Project#: 920255

ARB's Comment:

Documentation does not indicate that the reductions are enforceable by PTO or ATC condition.

Response:

Confusion appears to be caused by preceding ATC's submitted by the applicant as support documents.

Statement of Facts:

- This project banked western and central stationary source pre-1988 reductions for providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time.
- ATC's and PTO's with binding conditions including 99% control efficiency were issued for these TEOR operations. However, the applicant provided ATC's for preceding modifications (eg. 4008302A instead of 4008302B, sample attached) authorizing vapor collection (not including incineration) at a lower control efficiency.
- The confusion appears to be caused by preceding ATC's submitted by the applicant as support documents. An example of a current PTO (S-1127-160-2, was AS400# 4008302B and list of all permits) is attached. This PTO was originally issued 6/3/82 (see attached AS400 record) with conditions requiring 99% control and incineration of well casing gas. I verified all permits using the AS400 system at the time the project was reviewed.
- If needed the correct ATC's and implemented PTO's can be retrieved from dead storage.

State of California
AIR RESOURCES BOARD
Technical Support Division

Technical Guidance Document
for the
Emission Inventory Criteria and Guidelines Regulation
for AB 2588
(Air Toxics "Hot Spots" Information and
Assessment Act of 1987)

Prepared By

Technical Support Division
With the Participation of the
AB 2588 Technical Advisory Committee

August 1988

TABLE D-1

CATEGORY	EMISSION FACTORS
Well Cellars	Same as sump
Oil/Water Separators <u>(SOURCE: BAAQMD TEST RESULTS)</u>	925 lbs VOC/MM Gallon Wastewater (uncontrolled) (85% control efficiency with cover)
SUMPS	
Light Crude ^a	
Primary Sumps	0.142 lbs ROG/sq ft -day
Secondary	0.019 lbs ROG/sq ft -day
Tertiary	0.009 "
Heavy Crude ^b	
Primary Sumps	0.097 " "
Secondary	0.013 " "
Tertiary	0.006 " "
Pumps	0.004 lb ROG/well-day
Compressors	0.07 lb ROG/well-day
Well Heads	0.01 lb ROG/well-day
Steam Drive Wells	3610 lb ROG/well-year (Controlled)
Steam Drive wells (VOC)	220 lbs/well/day (Uncontrolled)
Cyclic Steam Wells (VOC)	3.6 lbs/well/day (Uncontrolled)
Cyclic Wells	1210 lb ROG/well-year (Controlled)
"Pseudocyclic" wells (Tertiary)	110 lb/day/well

a Extrapolated from API/Rockwell and ARB test results.

b Results obtained from ARB testing between 1983 - 1986.

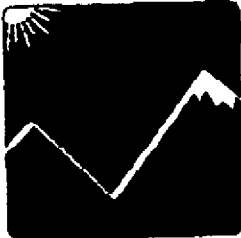
TRANSACTION REPORT

P. 01

SEP-27-94 TUE 16:11

SEND (M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-27	15:59	919164455023	12' 07"	19	SEND	(M) OK	063	
TOTAL				12M 7S	PAGES:	19		



San Joaquin Valley
 Unified Air Pollution Control District

FAX Transmittal Sheet

Southern Region

2700 "M" Street, Suite 275
 Bakersfield, CA 93301
 Voice: (805) 861-3682
 FAX: (805) 861-2060

Date: 9/27/94

To: Leslie Stern ARB
Name Company

From: Robert Rinaldi

Total Pages (including cover page): 19 Fax No.: (916) 445-5023

Comments: Addendum to ERC Project 920255 for Chevron

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Eakersfield, California 93302
Telephone (805) 861-3682



UD#: S-1127-160-1

Application No.: 4008302A

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-2-9 serving the following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115, 52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81, and 105.

SEE ATTACHED SHEET

Location:

Sec. 9, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231



4008302A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-2-9 serving the following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115, 52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81 and 105, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,


CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By


Thomas Faxson, P.E.
Air Sanitation Engineer III

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
✓ 4008302B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
✓ 4008303B			
4008329B	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
4008330B			
4008331A			
✓ 4008305B	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
✓ 4008306B			
✓ 4008308B			
✓ 4008310B			
✓ 4008311A			
4008333A			
✓ 4008313B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
✓ 4008315A			
✓ 4008316B			
✓ 4008322B	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
✓ 4008323A			
✓ 4008325A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E
✓ 4008327A			

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008343B	S-0059-1	(4008317/505)	Sec. 25 T32S/R23E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1	(4008317/509)	Sec. 15 T31S/R22E
	*S-0059-1	(4008317/505)	

See phone conversation dated 9/1/93 with Kelly Skeels

* See Chevron letter dated June 28, 1993



San Joaquin Valley
Unified Air Pollution Control District

PERMIT TO OPERATE

PERMIT NO: S-1127-160-2 *AS400# 4008302B*

EXPIRATION DATE: 02/28/98

LEGAL OWNER OR OPERATOR: CHEVRON U.S.A., INC.
MAILING ADDRESS: P. O. BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL CENTRAL SOURCE, SECTION 09 TOWNSHIP 29S RANGE 28E

EQUIPMENT DESCRIPTION:
THERMAL ENHANCED OIL RECOVERY OPERATION WELL VENT VAPOR CONTROL SYSTEM CT-2-9

CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance.
2. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date.
3. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%.
4. All components of well vent vapor collection and control systems shall be maintained in good working condition.
5. Leaks shall be inspected and repaired, and records of such repairs shall be maintained as specified in Rule 4401.
6. The operation shall be equipped with 25 steam enhanced wells, 1 heat exchanger, 2 gas/liquid separators, 1 vapor compressor, and compressed vapor piping to authorized disposal/incineration devices.
7. There shall be no more than 3 leaks from the vapor collection and control system, including condensate handling, at any one time.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require a new permit. This permit shall be posted as prescribed in District Rule 2010.

DAVID L. CROW

Executive Director/APCO

Southern Regional Office *2700 M Street, Suite 275 *Bakersfield, California 93301 *(805) 861-3682* FAX (805) 861-2060
1994-8-19

Kern APCD Enter and Maintain Status Sheets 4/27/93

***** 8:41:06

97

A to C # 4 008 302 B Equip Code 90001 Location Qtr ___ Sec 09 T 29 S R 28 E

Project # 790611 Processing Engr Supervising Engr

Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNOR

Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type CASING COLLECTION SYSTEM Rating 25 . 00

Mnf Application Received Date 6 / 11 / 79

Filing Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___

Mailing, Statement for Fees Due 1 / 04 / 93

Fee Receipt Number 0019260 Amount 187 . 50 Date 3 / 08 / 93

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 19 / 80

Startup inspection inspector ___ Date 2 / 17 / 82

Initial Source Test Required (Y/N) ___ / ___ / ___

Annual Source Test Required (Y/N) ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

___ / ___ / ___

___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82

P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___

Comments: * RENEWAL 5/7/82 (90 DAY EXTENSION GRANTED 02/20/ Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 4/27/93

***** 8:41:43

A to C # 4 008 303 B Equip Code 70009 Location Qtr ___ Sec 09 T 29 S R 28 E

Project # 800102 Processing Engr Supervising Engr

Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNOR

Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 51 . 00

Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80

Mailing, Statement for Fees Due 1 / 19 / 82

Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector ___ Date 2 / 17 / 82

Initial Source Test Required (Y/N) ___ / ___ / ___

Annual Source Test Required (Y/N) ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

___ / ___ / ___

___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82

P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___

Comments: Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

SUMMARY OF PROBLEMS ENCOUNTERED DURING APPLICATION PROCESSING

PROJECT ENGINEER: RCR

PROJECT #: 92117

DATE: 5/13/93

COMPANY NAME: Chevron U.S.A. Production Company

~~FILE~~ ER NUMBERS: S-0037-1, S-0038-1, S-0056-1 to S-0068-1

PROJECT DESCRIPTION: Emission Reduction Credits for Installation of Casing Collection Systems from Pre April 25, 1983 VOC reductions.

BRIEF DESCRIPTION OF PROBLEMS ENCOUNTERED:

1. ① Had to reconstruct NSR Balance
2. someone copied over Quattro
3. file
4. ② The applicant took time time resolve some of
5. the following issues: (Applicant requested 90 day Extension)
6. a) Disputed findings of Reestablishment Tests
7. b) ^{Questions about} Unimplemented ATC's
8. c)
9. _____
10. _____

FRACTION OF TOTAL PROCESSING TIME SPENT ON CORRECTING THE ABOVE: 15 %

S-1431-1 EPC

Original facility S-1127

S-618-1

S-65-1

S-1127 920255

PCR

AQEF

II

Facility #: 4008
Project #: 92117

FINAL ENGINEERING PROJECT CHECKLIST

- Application Review includes all items described in guidelines, all items appear in correct order, and all parts of analysis read logically.
- Draft Authorities to Construct have been prepared. Each condition is followed by number of rule requiring the condition or providing basis for the condition.
- Applicant has been notified by telephone of all conditions appearing in ATC but not proposed in application.
- NSPS/NESHAPS, BACT/LAER and/or NSR report has been prepared, with three copies of each.
- EPA Program 5 Objectives report has been prepared for all sources that "netted out" of NSR requirements or have major emissions but are minor sources due to permit conditions limiting hours of operation or production rate.
- Any necessary Community Bank forms have been completed.
- Permit fee billing edit has been prepared.
- Problems encountered summary sheet has been prepared which includes all items resulting in unnecessary expenditures of time (the time would not have been spent if the application had been correctly submitted, the data was all correct, no changes were made during processing).
- All necessary draft Public Notices have been prepared, including projects within 1000 feet of a school
- Emission summary sheets (one for whole project and one AS400 printout for each ATC) have been prepared including net emissions change for whole stationary source. NSPS status has been marked.
- "Summary of Emissions Testing Requirements" form has been prepared. Copy of requirements and ATC go to Compliance Technical Services upon issuance.
- AS400 Project, Status, and ERC records have been updated with any applicable dates, comments, location, etc.
- Project Routing form has been prepared.

Robert C. Ruchel Engineer

[Signature] Reviewing Engineer

POST REVIEW CHECKLIST

- ATC sent to compliance for review.
- Copy of ERC has been photocopied for the Banking Registry.
- Necessary permits and analyses have been sent to District office for Permitting Director's approval, comments, and signature.
- File folder request forms have been prepared.

PROJECT ROUTING FORM

PROJECT NUMBER: 92117 FACILITY ID: 4008 PERMIT NOS: S-37-1, S-38-1 & S-56-1
to S-66-1

APPLICANT NAME: Chevron U.S.A. Production Company

PREMISE ADDRESS: P.O. Box 1392 Bakersfield, Ca 93302

PRELIMINARY REVIEW	ENGR	DATE	SUPR	DATE
A. Application Deemed Incomplete				
B. Application Deemed Complete <input type="checkbox"/> Awaiting CB Offsets	RCP	12/1/92	PE	12/1/92
C. Application Pending Denial				
D. Application Denied				

ENGINEERING EVALUATION	INIT	DATE
E. Engineering Evaluation Complete	RCP	5/1/93
F. Supervising Engineer Approval	PE	6/1/93
G. Compliance Division Approval <input checked="" type="checkbox"/> Not Required		
H. Permit Services Manager Approval	JPH	12/6/93

10/1/93 f.m.c

Director Review: Not Required Required

CLERICAL STAFF: Perform tasks as indicated below. Initial and date when completed.

- PRELIMINARY REVIEW
- _____ Mail Incompleteness Letter to the Applicant.
 - _____ Mail Completeness Letter to the Applicant.
 - _____ Mail Intent to Deny Letter to the Applicant (Certified Mail).
 - _____ Mail Denial Letter to the Applicant (Certified Mail).

PROJECTS NOT REQUIRING PUBLIC NOTIFICATION

- PRELIMINARY DISPOSITION: _____ Mail Imminent Denial Letter to the Applicant (Certified Mail).
- FINAL DISPOSITION: _____ Mail ATC(s) to Distribution.
 _____ Mail Denial Letter to the Applicant (Certified Mail).

PROJECTS REQUIRING PUBLIC NOTIFICATION

- PRELIMINARY DECISION: _____ Deliver Ad to the Newspaper NOT LATER THAN _____
 _____ Mail copies of Cover Letter and Engineering Evaluation to Distribution.
- FINAL DECISION: _____ Deliver Ad to the Newspaper NOT LATER THAN _____
 _____ Mail copies of Cover Letter and ATC(s) to Distribution.
 _____ Mail copies of Cover Letter to Distribution.

DISTRIBUTION

- _____ APPLICANT _____ EPA - 75 Hawthorne St., San Francisco, CA 94105 Attn: A-3-4
 - _____ ENGINEER _____ ARB - Stationary Source Division Chief, PO Box 2815, Sacramento, CA 95812
 - _____ COMPLIANCE _____ SJVUAPCD - 1999 Tuolumne St., Fresno, CA 93721 Attn: Seyed Sadredin
 - _____ PREMISE FILE
- _____ BUILDING DEPT _____ _____ OTHER _____
- _____ FIRE DEPT _____ _____ SCHOOL _____

APPENDIX

Pg #

Engineering Evaluation For ATC# 4008591-600, project # 910411.....1A

Reestablishment Tests for Central And Western Sources.....3

Table 3-1 from "Reestablish VOC Offsets for Central and Western Sources"⁴⁸.....48

NSR Balance for Heavy Central & Western Stationary Sources.....50

AS400 Printouts.....97

PTO's 4008327A, '329B, and 330B.....113

Rule 230.1 adopted 9/19/91.....127

Application submitted March 16, 1992.....135

APCD letter returning application submitted March 16,1992.....134

Chevron letter dated May 7, 1993.....137

Copy of memo to planning department170

A to C #s 4008591-600

19

Company Name - CHEVRON

Mailing address:
P.O. Box 1392
Bakersfield, CA 93302

Phone: 334-4457

Company Contact:

Processing Engr:

Name Mike Kelly
Title

Greg McNeish
WZI

Project:

Start date: 5/07/91
Deemed Comp: 5/11/91
Finish date: _____

910411

Project Location:

Reviewed By: GC
Title: Acting AOE III
Date: 8/21/91

Sec 1, T30S, R21E Cymric
Sec ~~20~~ T30S, R22E McKittrick
7

INDEX

<u>Section</u>	<u>Page #</u>
I. Proposed Project	<u>1</u>
II. Applicable Rules and Regulations	<u>2</u>
III. Schematic	<u>3-6</u>
IV. Equipment Listing	<u>7</u>
V. Engineering Analysis	<u>7-10</u>
VI. Emission Calculations	<u>11-12</u>
VII. Emission Changes	<u>13-45</u>
VIII. Conclusions	<u>46</u>
IX. Recommendations	<u>46</u>

I. Proposed Project:

Chevron plans to install ten new 62.5 MMBTU/HR steam generators in the Western Heavy Oil Stationary Source. The generators will supply the steam required for thermally enhanced oil recovery (TEOR) well stimulation projects. The generators will all be fired on natural gas provided by the interstate pipeline.

4008591-600

II. Applicable Rules and Regulations:

- Rule 201 a Authority to Construct
- b Permit to Operate

Rule 210.1 - New Source Review

Any increase in emission for the emissions unit BACT required (except CO)
Sum of emission increases since 12/28/76 \geq 150 lbm/day LAER & mitigation required
(except PM-10 \geq 80 lbm/day & CO \geq 550 lbm/day unless modeling shows no violations).

Rule 401 - Visible emissions shall be less than 20% opacity and Ringelmann 1 except for 3 minutes in any hour.

Rule 404 - Particulate matter emissions shall not exceed 0.1 gr/scf exhaust gas

Rule 407 - Liquid and gaseous sulfur compound emissions (expressed as SO₂) shall not exceed 2000 ppm volume.

Rule 407.2 - Fuel Burning Equipment - Particulate matter derived from fuel shall not exceed 0.10 gr/scf calculated to 12% CO₂

Rule 408 - Fuel Burning Equipment emissions shall not exceed 200 lbm SO₂, 140 lbm/hr NO_x and 10 lbm/hr particulate matter derived from fuel

Rule 411.1 - Steam Drive Well Vents - emissions shall be controlled by at least 99% or emissions shall not exceed 2.2 lbm/day and system shall be maintained in good repair to meet maximum number of allowable leaks

Rule 419 - no emission shall constitute a nuisance

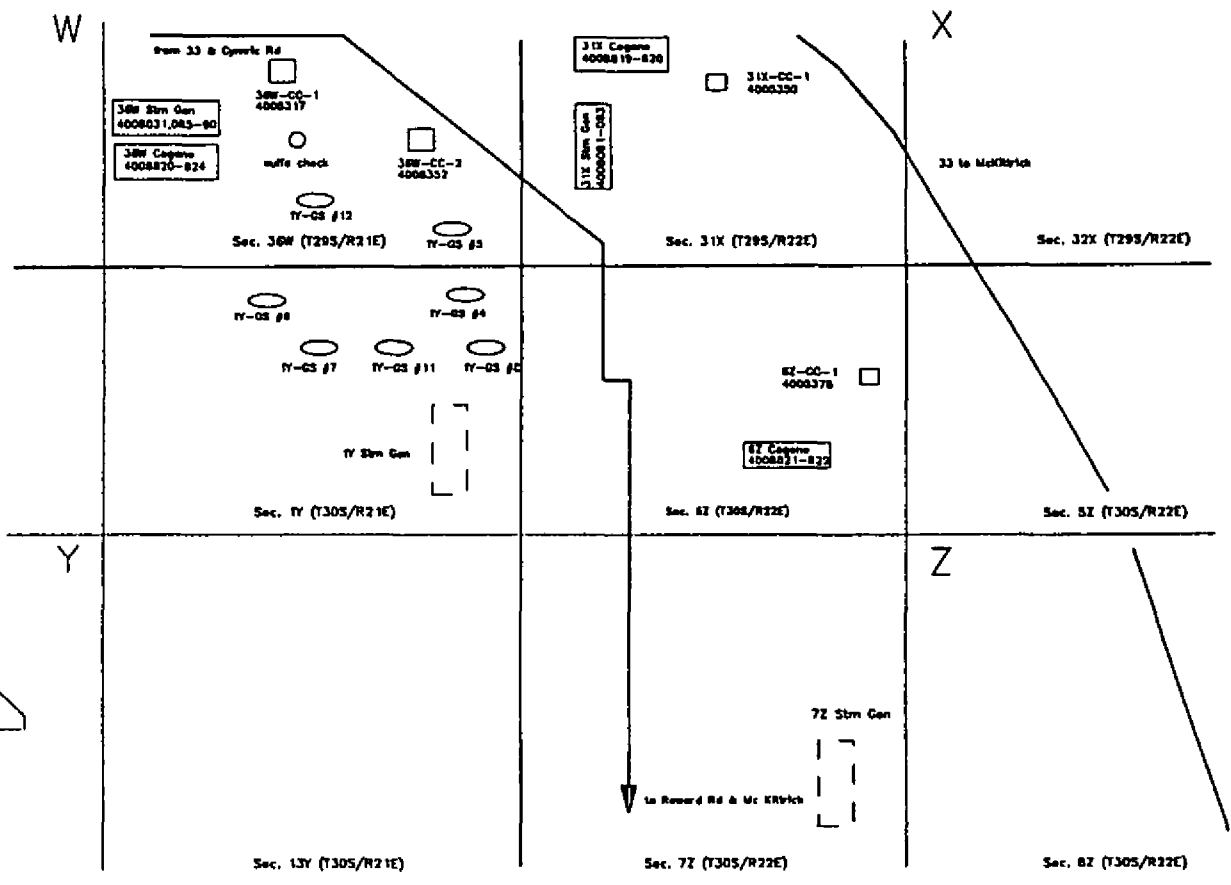
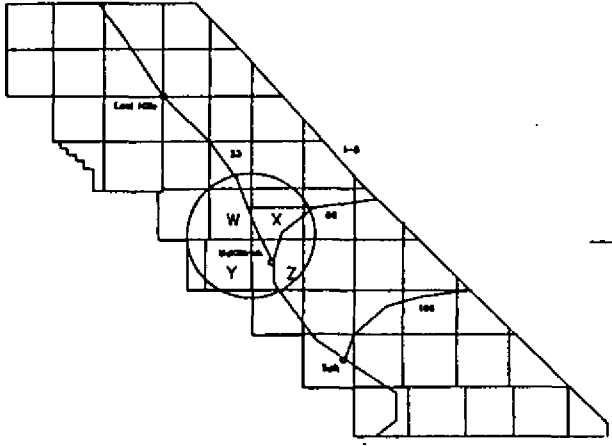
III. Schematic:

SEE PAGES 3 - 6 FOR EQUIPMENT LOCATIONS AND DIAGRAMS

CYMRIC DISTRICT PROJECT EQUIPMENT LOCATIONS

**CHEVRON WESTERN SOURCE
CYMRIC DISTRICT PROPERTIES**

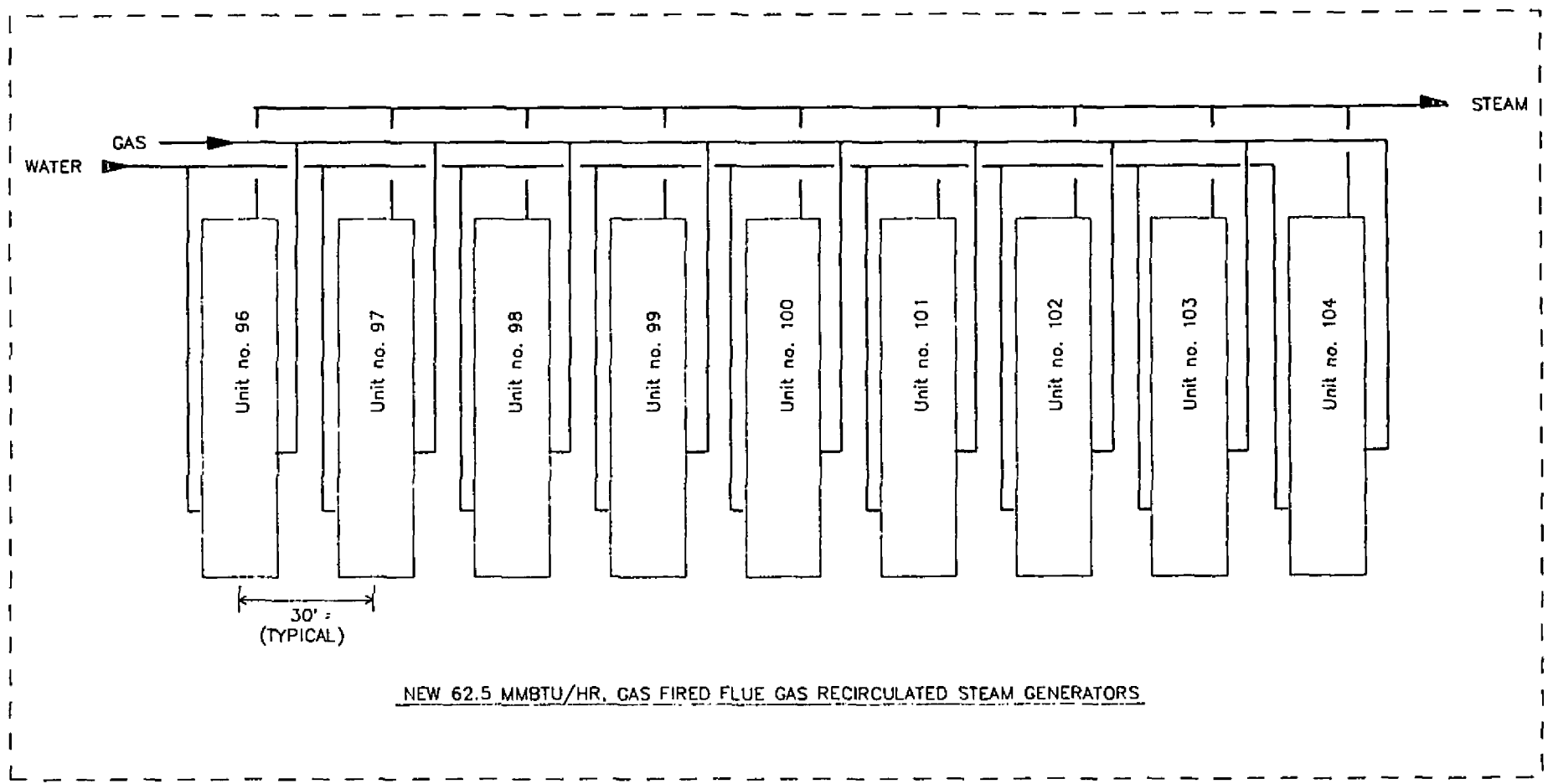
W = T29S / R21E
 X = T29S / R22E
 Y = T30S / R21E
 Z = T29S / R22E



009-1659001

SEC. 7Z STEAM GENERATOR PLANT "PLOT PLAN"

(SE 1/4, SEC 7Z, T30S/R22E)

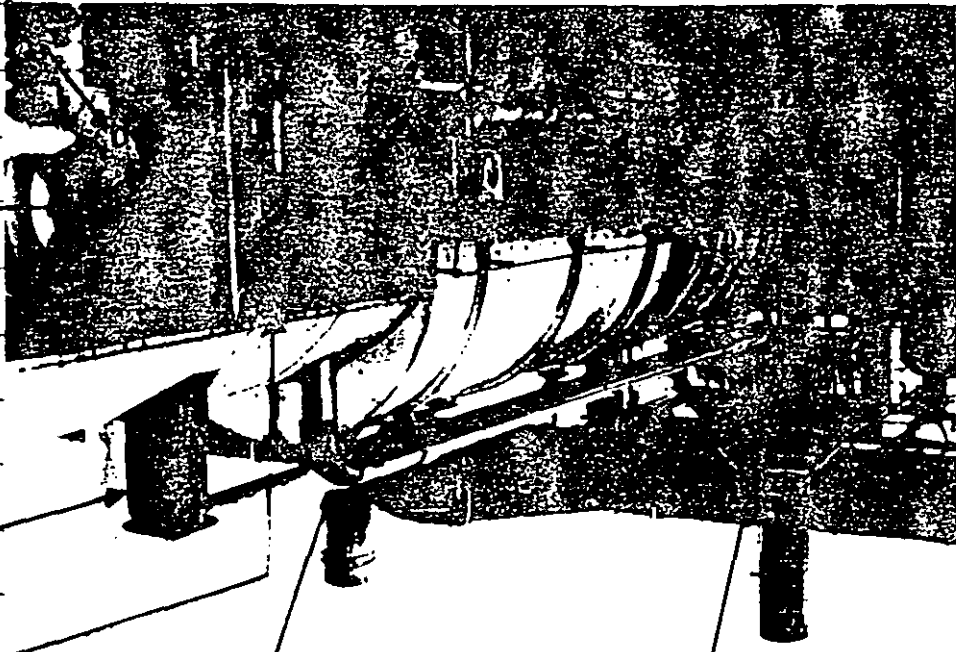


NEW 62.5 MMBTU/HR, GAS FIRED FLUE GAS RECIRCULATED STEAM GENERATORS

A P

FIGURE 1: SIDE VIEW OF FGR SYSTEM ON NORTH AMERICAN STEAM GENERATOR #15 AT 250 COALINGA.

DRAIN AND CORROSION COUPON VALVE.



VORTEX DAMPER

24" BLOWER INLET PIPE (SCH. 40)

12" FGR CONTROL VALVE.

12" FGR LINE (SCHEDULE 40)

FGR LINE TIE-IN TO CONVECTION SECTION

Out File

Subject

From

4008591-600

19

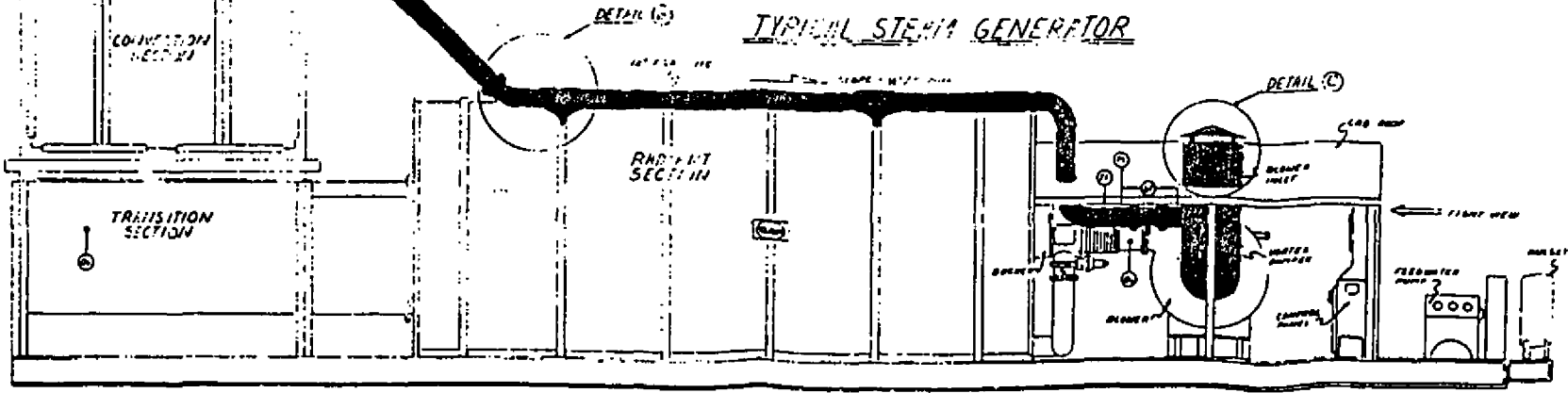
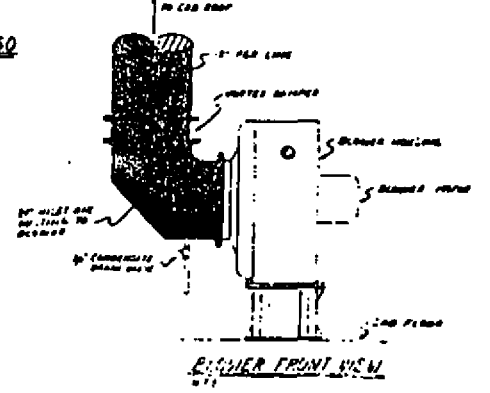
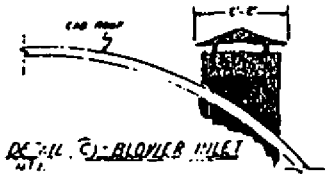
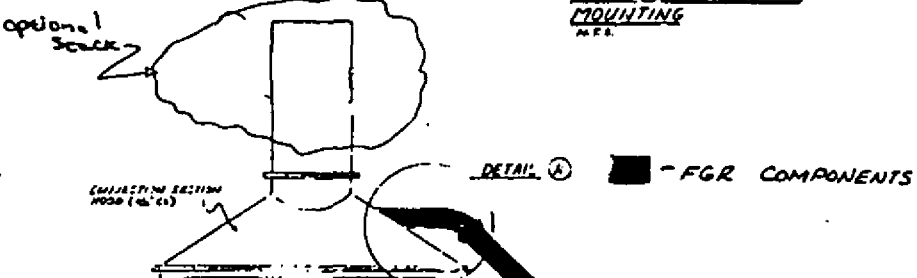
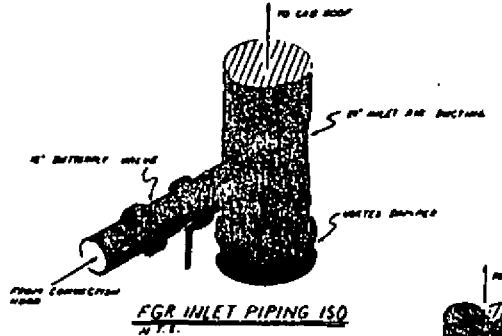
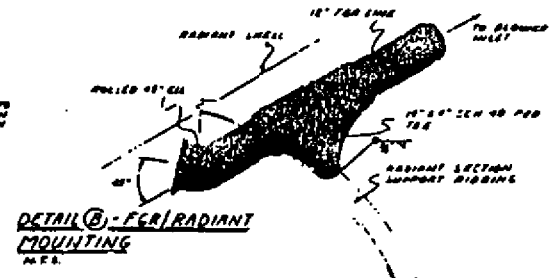
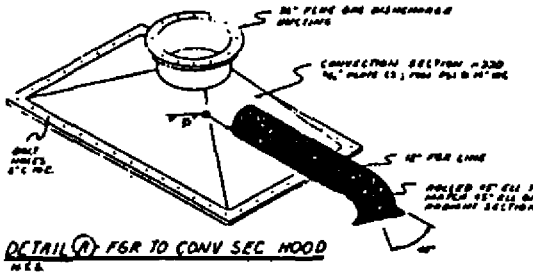
Memorandum 60-144

e

NORTH AMERICAN 4131-G-LNX-FGR SYSTEM

4008591-600

- NOTES:
- (1) THE FGR SYSTEM IS TO BE INSTALLED AS SHOWN IN THIS DRAWING.
 - (2) THE FGR SYSTEM IS TO BE INSTALLED AS SHOWN IN THIS DRAWING.
 - (3) THE FGR SYSTEM IS TO BE INSTALLED AS SHOWN IN THIS DRAWING.
 - (4) THE FGR SYSTEM IS TO BE INSTALLED AS SHOWN IN THIS DRAWING.
 - (5) THE FGR SYSTEM IS TO BE INSTALLED AS SHOWN IN THIS DRAWING.

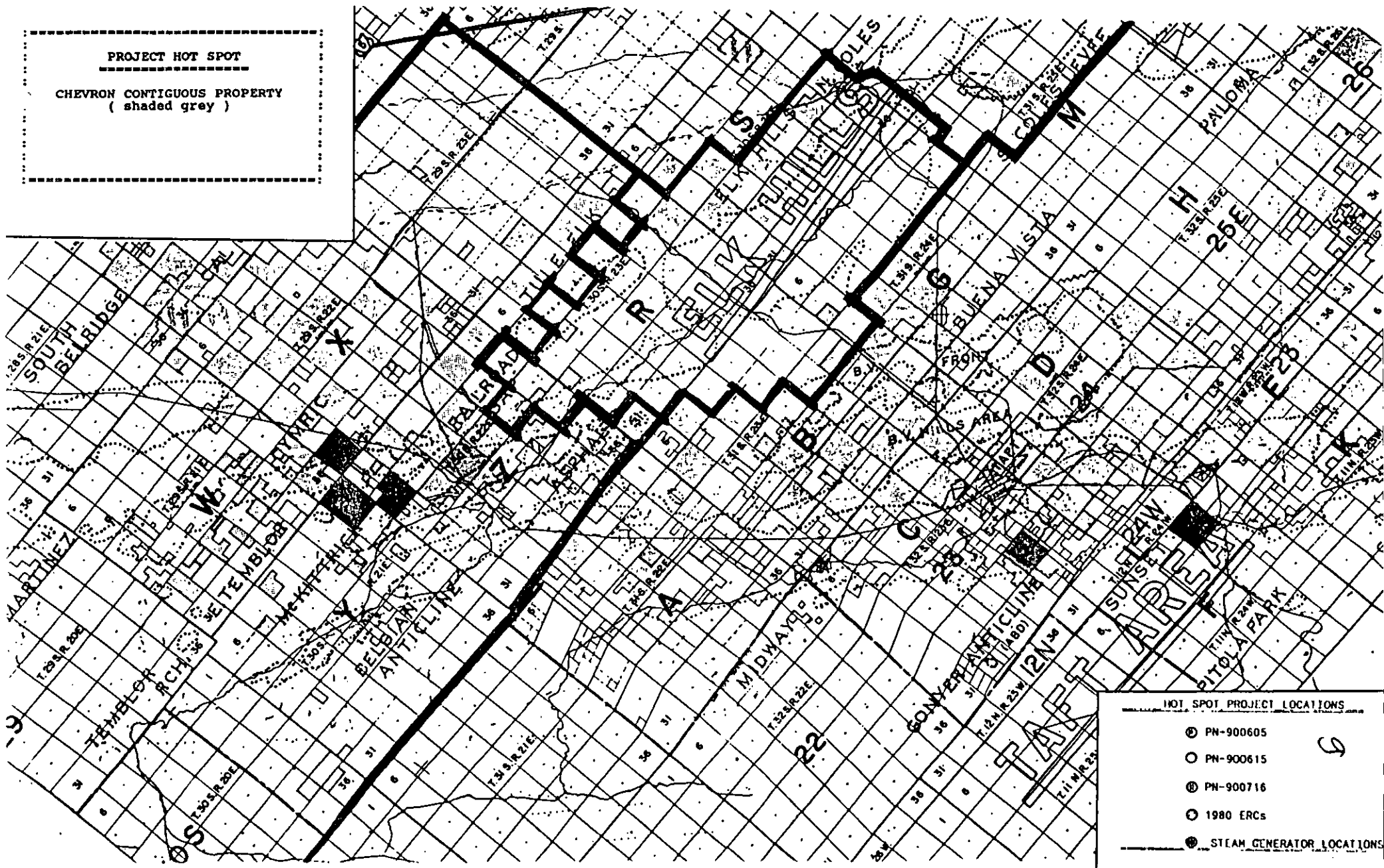


REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION

 Chevron U.S.A. Inc. Houston, Texas, U.S.A.	NORTH AMERICAN 4131-G-LNX-FGR WITH INSTALLATION DRAWING VARIOUS RICH STEAM GENERATORS
---	---

PROJECT HOT SPOT

CHEVRON CONTIGUOUS PROPERTY
(shaded grey)



HOT SPOT PROJECT LOCATIONS

- PN-900605
- PN-900615
- ⊙ PN-900716
- ⊗ 1980 ERCs
- ⊕ STEAM GENERATOR LOCATIONS

5

4008591-600

IV. Equipment Listing:

Each application will contain the following Equipment:

- A. Struthers Thermo-Flood, Model OH50-ND-16XAM, 62.5 MMBTU/hr maximum input gas-fired steam generator, equipped with Automatic Oxygen Trim Control Device.
- B. North American, Model 4131G-LNX-FGR, burner,
- C. Flue Gas Recirculation System, including convection section hood, 24" blower inlet air ducting, and 12" FGR line.

V. Engineering Analysis:

RULES COMPLIANCE ANALYSIS

210.1

PM₁₀, SO₄, SO₂, NO_x, and HC Stationary Source Cumulative Net Emission Changes are all less than the New Source Review trigger levels which require LAER and mitigation. Therefore only BACT is required for these pollutants in this project.

The profile for CO exceeds 550 lbm/day. However an air quality impact analysis using PTPLU version 2.0 was provided by the applicant showing that the CO emission increase results in an increase of 0.0067 mg/m³ for the one hour average and 0.0017 mg/m³ for the 8 hour average. This is well below the increases of 2.0 and 0.5 mg/m³ allowable. Therefore only BACT is required for CO.

BACT ANALYSIS

PM₁₀ BACT for PM₁₀ emissions from steam generators is use of natural gas as a fuel. Chevron has proposed natural gas. Therefore, BACT is satisfied for PM₁₀.

SO₂ and SO₄ BACT for SO_x is the use of natural gas as fuel with a maximum of 0.1 gr total sulfur per 100 DSCF. However the fuel proposed for this project is to come from the new EOR pipeline which has a contract maximum of 0.75 gr total sulfur per 100 DSCF. The cost effectiveness calculation done below is per SJVUAPCD policy dated July 3, 1991.

Assumptions:

- 1. Fuel use = 1.357 MMSCFD
- 2. Operating Factor = 95%

365 days x .95 x 1357000 SCF/day x (0.75-0.1) gr/100 DSCF x 64/32 x 1 lb/7000 gr x 1 ton/2000 lb

= 0.44 tons per year SO₂ reduction

4008591-600

V. Engineering Analysis: (cont.)

Capital Cost = \$350,000 (provided by applicant)

Annualizing factor = 0.1628

= 350,000 x 0.1628 = \$57,000 per year

Operating Costs (Annual) (provided by applicant)

Chemicals	2,000
Utilities	2,200
Disposal	600
Maintenance	17,500
Taxes	7,000
Operating Labor	<u>26,300</u>
TOTAL	55,600

TOTAL ANNUALIZED COSTS = \$112,600

Cost per ton of reduction = 112,600/0.44 = \$256,000/ton SO₂

This far exceeds the cost effectiveness limit of \$3,900/ton for SO₂ reductions in the interim SJVUAPCD BACT analysis policy, therefore, the proposed limit of 0.75 gr/100 DSCF in the fuel gas is acceptable as BACT for SO₂ and SO₃ emissions.

NO_x Technologically feasible BACT for NO_x control is installation of selective catalytic reduction (SCR). Chevron is proposing FGR as achieved in practice BACT and provides the following calculations to show that SCR is not cost effective.

365 days x .95 x 1500000 MMBTU/day x (0.043-0.0043) lb/MMBTU x 1 ton/2000 lb
= 10.06 tons per year NO_x reduction

Capital Cost = \$1,661,794 (provided by applicant per ARB Tech Support)

Annualizing factor = 0.1628

= 1,661,794 x 0.1628 = \$270,500 per year

Operating Costs (Annual) (provided by applicant per ARB Tech Support)

TOTAL = \$47,361

TOTAL ANNUALIZED COSTS = \$317,861

Cost per ton of reduction = 317,861/10.06 = \$31,596/ton NO_x

This far exceeds the cost effectiveness limit of \$9,700/ton for NO_x reductions in the interim SJVUAPCD BACT analysis policy, therefore, the proposed use of FGR for NO_x control is acceptable as BACT. (See prior determination page 10A)

4008591-600

V. Engineering Analysis: (cont.)

HC BACT for HC emissions from steam generators is use of natural gas as a fuel. Chevron has proposed natural gas. Therefore, BACT is satisfied for HC emissions.

CO BACT for CO emissions from steam generators is use of natural gas as a fuel. Chevron has proposed natural gas. Therefore, BACT is satisfied for CO emissions.

401

The steam generators will be equipped with BACT for PM₁₀ (i.e. gas firing) therefore very little visible emissions will occur. Compliance with Rule 401 is expected.

404

PM₁₀ emissions are 0.297 lbm/hr x 7000 gr/l lbm x 1 hr/62.5 MMBTU x 1.05 MMBTU/1000 scf = 0.035 gr/scf. This is below the limit of 0.1 gr/scf. Compliance with Rule 401 is expected.

407

District experience has shown that steam generators fired on pipeline quality natural gas only will meet the limits imposed by Rule 407. Compliance with Rule 407 is expected.

407.2

Using same calculations as for rule 404, compliance with Rule 407.2 is expected.

408

From section VI, Emission Calculations, it is seen that emissions from the generators do not exceed the limits imposed by Rule 408. Compliance with Rule 408 is expected.

419

Since the generators are located in the oilfields, are equipped with BACT, and no residences are nearby, no nuisance will occur. Therefore, compliance with Rule 419 is expected.

210.1.IV.E EMISSIONS REDUCTION CREDIT ANALYSIS

For this project as well as some others which are pending, Chevron wishes to reestablish previously zeroed hydrocarbon emission reductions. To do so, it must be shown that the reductions are real, actual, permanent, quantifiable, and enforceable such that they may be used to offset increases resulting from these projects.

The following discussion details compliance with the above conditions to reestablish the hydrocarbon emission reductions:

In January 1980, Chevron submitted and received approval for a plan to comply with District Rule 411.1 which then required 93% control of hydrocarbons from steam drive well casing gases by 1982. Chevron proposed to incinerate those gases and claimed a 99% reduction efficiency. The 6% above the 93% was credited to Chevron's cumulative net change as a hydrocarbon offset.

4008591-600

V. Engineering Analysis: (cont.)

Actual Emission Rate Calculation Procedure:

An uncontrolled emission factor of 250 lbm HC/day/well was used to determine the quantity of offsets granted by the APCD in the original project. Actual source tests show that some sources had a greater lbm/day/well than others. A weighted emission factor, based on actual source tests, was calculated for each source. The weighted emission factor represents the quantifiable hydrocarbon levels available for offsets under reestablishment rules. The amount of quantifiable offsets have been compared with the quantity credited by the APCD in 1980. In all cases the smaller of these values was used as the reestablished value. In 6 of the 9 cases, the lower value comes from using the weighted emission factor derived in the source tests. The 9 units with credits to reestablish are:

	<u># Wells</u>	<u>Weighted E.F. (lb/day-well)</u>	<u>APCD Credits</u>	<u>Requested to be Reestablished</u>
4008317	61	459.52	268.38	268.38
4008318	37	278.73	414.60	278.73
4008319B	53	399.26	457.01	399.26
4008350	41	308.86	397.78	308.86
4008343B	111	836.18	882.29	836.18
4008345A	38	286.26	69.84	69.84
4008346A	22	165.73	295.00	165.73
4008347A	40	301.33	103.18	103.18
4008349A	50	301.33	567.14	301.33
TOTAL		3337.19	3450.22	2726.48

The credits requested are real since Chevron is currently incinerating all casing head gas from the casing gas collection systems in district approved steam generators, and source tests indicate HC emission limits are not being exceeded.

The credits requested are actual based on source tests performed before and after installation of the casing gas collection systems.

The credits requested are permanent since maintenance of controls has been made a condition of the permit to operate.

The credits requested are quantifiable based on source tests performed on 4 of the 9 units and recognition that all 9 units are similar.

The credits requested are enforceable by field inspection by District personnel and by annual source tests required on the steam generators.

Chevron has shown that even without these reductions taken initially, they did not need them prior to 1987 when they were set to zero. Therefore, all projects were approvable with or without these reductions in place in 1980. (see support documents)

Compliance with Rule 210.1.IV.E is determined and the reduction reestablishment for 2726.48 lbm/day hydrocarbons is allowed.

HOT SPOTS ANALYSIS

CHEVRON INDICATES THAT CREDITS requested in this project and credits approved in earlier ^{approved} projects are greater than the increases in this project, Therefore no hot spot is being created and compliance with this aspect of Rule 210.1 can be expected. For chevron the entire western heavy oil SS is one contiguous or adjacent "Hot spot" area. There fore accumulation shown on Dases 7645 is the "Hot Spot" accumulation

4008591-600
MAIL TO: CAPCOA BACT Clearinghouse
California Air Resources Board
Attn: Project Review Branch
P.O. Box 2815
Sacramento, CA 95812

FOR ARB USE ONLY
File No.:
Form No.:
Source Code:

~~100-5A~~
L

BACT DETERMINATION REPORTING FORM

Instructions: Complete this form when an A/C is issued. Please use one form per BACT determination (i.e., pollutant). Section A needs to be completed on only one form for a given source, i.e., only fill in Section B on subsequent forms. See reverse side for descriptions of field identifiers used below.

SECTION A: Source Information:

Company & Project Name Mobil E&P U.S. Inc. - Phase III
Permit Nos 4011242-264 Issue Date 9/5/89 Est. Startup Date / /
District Kern County APCD Contact Tom Paxson Phone No. (805) 861-3692
Today's Date / / Source: (New) Modified (circle) Project Cost \$
Type of Equipment & Vendor 23 - C.E. Natco Natural Gas-fired
Steam Generators
Capacity: Rated Input 62.5 MM Btu/hr (each) Rated Output
Operational Level (% of capacity) 80 Fuel Type PUC Quality Natural Gas

SECTION B: Control Data: Pollutant Oxides of Nitrogen (only one per form)

Control Equipment & Vendor Coen DAF Low NOx burner with custom
fabricated flue gas recirculation and Westinghouse/Hagen Oxygen analyzer/controller
Emissions: Control 130.00 lbm/day Before After Control 41.60 lbm/day Limit 2.708 ^{lb/hr} (each)
Determination (circle): District-Defined BACT District-Defined LAER Other
BACT/LAER Specification: Emission Limit 0.043 Efficiency Limit (%) 68
Limit Equivalents: ✓ lbm/MM Btu; ppmvd or gr/dscf at
Other:
Other Relevant Permit Limits: Time of Operation
Fuel Use Thru-put Capacity
Other
Control Equipment Cost \$ Cost Effectiveness \$ /lbm

Remarks

4008591-600

VI. Emission Calculations:

Current emissions for all priority pollutants are 0 for these emissions units since they are all new.

Assumptions

1. Fuel gas has a heating value of 1000 BTU/SCF.
2. Fuel gas sulfur content = 0.75 grains total sulfur per 100 DSCF.

PM₁₀
PM₁₀ emissions calculations are based on AP-42 table 1.4.1. The emission factor is 5 lbm/mmscf. Emissions for each generator are:

$$5 \text{ lbm/mmscf} \times 1 \text{ scf/1000 BTU} \times 62.5 \text{ MMBTU/hr} \times 0.95 = \underline{0.297 \text{ lbm/hr}}$$

$$0.297 \text{ lbm/hr} \times 24 \text{ hr/day} = \underline{7.125 \text{ lbm/day}}$$

SO₂
SO₂ emissions are calculated assuming 2% of fuel sulfur is converted to SO₂ (remainder to SO₃). Emissions for each generator are:

$$\frac{0.75 \text{ gr}}{100 \text{ DSCF}} \times \frac{1 \text{ lbm}}{7000 \text{ gr}} \times \frac{1000 \text{ SCF}}{\text{MMBTU}} \times 0.02 \times \frac{96}{32} \times 62.5 \text{ MMBTU} \times 0.95 = \underline{0.0038 \text{ lb/hr}}$$

$$0.0038 \text{ lbm/hr} \times 24 \text{ hrs/day} = \underline{0.0916 \text{ lbm/day}}$$

SO₃
SO₃ emissions are calculated assuming 98% of fuel sulfur is converted to SO₃ (remainder to SO₂). Emissions for each generator are:

$$\frac{0.75 \text{ gr}}{100 \text{ DSCF}} \times \frac{1 \text{ lbm}}{7000 \text{ gr}} \times \frac{1000 \text{ SCF}}{\text{MMBTU}} \times 0.98 \times \frac{64}{32} \times 62.5 \text{ MMBTU} \times 0.95 = \underline{0.1247 \text{ lb/hr}}$$

$$0.1247 \text{ lbm/hr} \times 24 \text{ hrs/day} = \underline{2.9925 \text{ lbm/day}}$$

NO_x
NO_x emissions are calculated based on source tests and prior BACT determinations on FGR equipped steam generators. The factor is 0.043 lbm/MMBTU. Emissions for each generator are:

$$0.043 \text{ lbm/MMBTU} \times 62.5 \text{ MMBTU/hr} \times 0.95 = \underline{2.5531 \text{ lbm/hr}}$$

$$2.5531 \text{ lbm/hr} \times 24 \text{ hrs/day} = \underline{61.275 \text{ lbm/day}}$$

HC

HC emissions are calculated based on source tests on FGR equipped steam generators. The factor is 0.0028 lbm/MMBTU. Emissions for each steam generator are:

$$0.0028 \text{ lbm/MMBTU} \times 62.5 \text{ MMBTU/hr} \times 0.95 = \underline{0.1663 \text{ lbm/hr}}$$

$$0.1663 \text{ lbm/hr} \times 24 \text{ hrs/day} = \underline{3.99 \text{ lbm/day}}$$

4008591-600

VI. Emission Calculations:

CO

CO emissions are calculated based on source tests on FGR equipped steam generators. The factor is 0.0160 lbm/MMBTU. Emissions for each steam generator are:

$$0.0160 \text{ lbm/MMBTU} \times 62.5 \text{ MMBTU/hr} \times 0.95 = \underline{0.95 \text{ lbm/hr}}$$

$$0.0160 \text{ lbm/hr} \times 24 \text{ hrs/day} = \underline{22.8 \text{ lbm/day}}$$

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008591 :
 (All Emissions lbm/day)

0

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008592 :
 (All Emissions lbm/day)

P

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	YES	YES	YES	YES	YES	YES
BACT PROVIDED:	YES	YES	YES	YES	YES	YES

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008593 :
 (All Emissions lbm/day)

9

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11...

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	YES	YES	YES	YES	YES	YES
BACT PROVIDED:	YES	YES	YES	YES	YES	YES

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008597 :

(All Emissions lbm/day)

r

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	YES	YES	YES	YES	YES	YES
BACT PROVIDED:	YES	YES	YES	YES	YES	YES

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:

(not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008595 :
 (All Emissions lbm/day)

5

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008596 :
 (All Emissions lbm/day)

†

13

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008597 :
 (All Emissions lbm/day)

U

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:

(not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008598 :
 (All Emissions lbm/day)



EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008599 :
 (All Emissions lbm/day)

W 

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:
 (not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE EMISSIONS UNIT 4008600 :

(All Emissions lbm/day)

X

EMISSIONS CHANGE FOR EACH EMISSIONS UNIT:

1. EMISSIONS CHANGE:

Proposed Emissions pg 11-12 - Current Emissions pg 11

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Proposed Emissions=	7.13	0.09	2.99	61.28	3.99	22.80
Current Emissions=	0	0	0	0	0	0

Emissions Change =	7.13	0.09	2.99	61.28	3.99	22.80
--------------------	------	------	------	-------	------	-------

BACT REQUIRED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>
BACT PROVIDED:	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

2. SMALL SOURCE SITING ALLOWANCE (SSSA) ADJUSTMENTS:

(not applicable to reductions to be banked)

-0.1 x negative emissions change

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
SSSA Adjustments =	0	0	0	0	0	0

3. EMISSIONS TO BE BANKED

-1.0 x negative emissions change to be banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Banked Emissions =	0	0	0	0	0	0

4. EMISSIONS UNIT'S CREDITABLE EMISSION'S CHANGE:

Emissions Change + SSSA Adjustments + Emissions to be Banked

	PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Creditable Chgs =	7.13	0.09	2.99	61.28	3.99	22.80

5. CONCLUSIONS:

X Proposed emissions are included in the cumulative net change for the stationary source and any credits have been quantified on actual historical emissions or DELs. Therefore they should be included as Daily Emissions Limitations (DELs) on Authorities to Construct for this emissions unit.

_____ Proposed emissions reductions are to be represented by banking certificates and are not included in the cumulative net emissions change.

VII. EMISSIONS CHANGE (All Emissions lbm/day)

STATIONARY SOURCE NET EMISSIONS CHANGE:

Emissions change for each emissions unit are shown on page(s) 13-22.

1. CURRENT EMISSIONS:

Authorized emission rates represented by Daily Emission Limitations (DEL) or actual historical emissions (actual historical emissions must be used where no DEL exists or where reductions are used for offsets, banking or interpollutant tradeoffs). Current emissions are summarized on page(s) 11.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
0	0	0	0	0	0

2. PRE-PROJECT CUMULATIVE NET EMISSION CHANGE:

Sum of Pre-Project Authorized Emission Changes represented by Authorities to Construct issued after 9-12-79. These values are tabulated on page(s) 26-45.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
-92.66	128.30	-853.63	-676.73	74.16	3026.30

3. PROPOSED EMISSIONS:

Sum of authorized emission rates after implementation of this project. Proposed emissions are summarized on page(s) 13-22. Daily Emissions Limitations (DELs) to be included in ATC are shown on page(s) 13-22.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
71.30	0.90	29.90	612.80	39.90	228.00

-2726.48

REESTABLISH HYDROCARBON ERLs

4. CONTRIBUTION TO SMALL SOURCE SITING ALLOWANCE (SSSA):

SSSA = 10% of emission reductions from each emissions unit (except reductions to be banked) SSSA adjustments are summarized on page(s) _____.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
0	0	0	0	0	0

VII. EMISSIONS CHANGE (All Emissions lbm/day)

5. EMISSIONS TO BE BANKED:

Emissions to be banked are summarized on page(s) _____.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
0	0	0	0	0	0

6. PROJECT'S "CREDITABLE" NET EMISSION CHANGE:

Proposed emissions - Current emissions + SSSA + Emissions to be Banked

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
71.30	0.90	29.90	612.80	-2686.58	228.00

7. POST-PROJECT CUMULATIVE NET EMISSION CHANGE:

Pre-Project Cumulative Net Emission Change + Project's Creditable Net Emissions Change.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
-21.36	129.20	-823.73	-63.93	-2612.42	3254.30

8. CONCLUSIONS:

_____ The stationary source net emissions change (increase) does not equal or exceed 150 lbm/day SO₄, SO₂, NO₂ or HC, or 80 lbm/day PM₁₀ or 550 lbm/day CO. Therefore LAER and Mitigation are not required.

X The stationary source net emissions change (increase) is such that Subsection V.B. of Rule 210.1, LAER and Mitigation applies for CO and full mitigation for these increases has been provided as shown on page(s) _____ or modeling has been submitted showing no new violations for increases of CO greater than 550 lbm/day as shown on page(s) _____.

_____ The stationary source net emissions change (increase) is such that Subsection V.B. of Rule 210.1, LAER and Mitigation applies for _____ and sufficient mitigation has not been provided therefore, the following ATCs should be denied:



99

APPENDIX II
AIR QUALITY IMPACT ANALYSIS - CO
(PTPLU - Version 2.0)

Chevron has not provided ERCs for the project's proposed CO emission increase. However, an Air Quality Impact Analysis (AQIA) has shown that the project will not result in an ambient CO concentration increment greater than 0.5 mg/m³ (8 hour average) or 2 mg/m³ (1 hour average). Therefore, mitigation of the project's CO emissions is not required or proposed.

The AQIA model used was PTPLU, version 2.0. PTPLU is the CARB recommended point source Gaussian screening model for estimating worst case hourly concentrations under steady State conditions.

RESULTS - AQIA - CO:

The worst case results of the PTPLU AQIA "run" are summarized below (a computer printout of the PTPLU run is attached).

PROJECT

PREDICTED AMBIENT CO CONCENTRATION INCREMENT (mg/m³)

AMBIENT CO CONCENTRATION INCREMENT		
INCREMENT	1 HOUR AVERAGE	8 HOUR AVERAGE
PROJECT	0.0067 mg/m ³	0.0047 mg/m ³
ALLOWABLE	2.0000 mg/m ³	0.5000 mg/m ³



bb

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008077A	11/08/79	Retrofit scrubber on existing steam gen.	Cancelled and Replaced by 4008077C 8/15/80						
4008219A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008220A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008343A	12/06/79	Modification of TEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008036	12/27/79	F of L and correct A to C	0.00	0.00	0.00	0.00	0.00	0.00	
4008335B	02/15/80	Modify TEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008336B	02/15/80	Modify TEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008225	04/02/80	Substitute steam generator for # 402000:	0.00	0.00	0.00	0.00	0.00	0.00	
4008066	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008069	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008092	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008093	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008094	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008095	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008100	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008101	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008150	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008151	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008179	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008349B	04/30/80	Experimental H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	05/19/80	Retrofit scrubber to 4 existing S. G.s	Cancelled and replaced by 4008032C 7/22/81						
	05/19/80	4008032	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008033	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008080	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008084	-22.51	0.00	0.00	0.00	0.00	0.00	
4008034B	05/19/80	Modify existing scrubber; add 4 SG's	0.00	0.00	0.00	0.00	0.00	0.00	
4008065C	05/19/80	Mod. scrubber serving SG's 065, 078, 079	Cancelled and Replaced by 4008065E 11/14/84						
4008077B	05/19/80	Mod. scrubber serving SG 4008077	Cancelled and Replaced by 4008077C 8/15/80						
4008081B	05/19/80	Retrofit scrubber to 3 existing S. G.s	Cancelled and replaced by 4008081E 7/22/81						
	05/19/80	4008081	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008082	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008083	-22.51	0.00	0.00	0.00	0.00	0.00	
4008085A	05/19/80	Retrofit scrubber to 5 existing S. G.s	Cancelled and replaced by 4008031B 7/22/81						
	05/19/80	4008085	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008086	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008087	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008088	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008089	-22.51	0.00	0.00	0.00	0.00	0.00	
4008091A	05/19/80	Mod. scrubber serving SG 4008091	0.00	0.00	0.00	0.00	0.00	0.00	
4008167	05/19/80	62.5 MM BTU/hr steam generator	Cancelled and replaced by 4008167C 4/10/87						
4008167A	05/19/80	PN/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008168	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008168B 4/10/87						
4008169	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008169B 4/10/87						
4008170	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008170B 4/10/87						
4008171	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008171C 4/10/87						
4008172	05/19/80	27.5 MM BTU/hr Struthers steam generator	xxxx	xxxx	xxxx	126.72	xxxx	xxxx	
4008173	05/19/80	27.5 MM BTU/hr C E Natco steam generator	xxxx	xxxx	xxxx	126.72	xxxx	xxxx	
4008174	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008174B 4/10/87						
4008175	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008175B 4/10/87						



CC

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008176	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008176B 4/10/87						
4008177	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008177C 4/10/87						
4008177A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008178	05/19/80	62.5 MW BTU/hr Struthers steam generator	Cancelled and replaced by 4008178B 4/10/87						
***** These Authorities to Construct remain invalid until particulate offsets have been provided.									
4008317B	05/19/80	Modify TEOR Operation serving 62 wells	Cancelled and replaced by 4008317E 9/28/81						-263.38
4008318A	05/19/80	Modify TEOR Operation serving 37 wells	0.00	0.00	0.00	0.00	-414.60	0.00	
4008319B	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-457.01	0.00	
4008343B	05/19/80	Modify TEOR Operation serving 111 wells	0.00	0.00	0.00	0.00	-822.29	0.00	
4008345A	05/19/80	Modify TEOR Operation serving 38 wells	Cancelled and Replaced by 4008319D 5/12/82						-69.84
4008346B	05/19/80	Modify TEOR Operation serving 22 wells	Cancelled and Replaced by 4008346E 12/23/81						-295.00
4008347B	05/19/80	Modify TEOR Operation serving 40 wells	Cancelled and Replaced by 4008347C 6/20/84						-103.18
4008343C	05/19/80	Modify TEOR Operation serving 40 wells	0.00	0.00	0.00	0.00	-567.14	0.00	
4008350A	05/19/80	Modify TEOR Operation serving 41 wells	Cancelled and Replaced by 4008350C 9/22/81						-397.78
4008351A	05/19/80	Modify TEOR Operation serving 31 wells	0.00	0.00	0.00	0.00	-403.55	0.00	
4008352B	05/19/80	Modify TEOR Operation serving 66 wells	0.00	0.00	0.00	0.00	-567.05	0.00	
4008353A	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-580.00	0.00	
4008354A	05/19/80	Modify TEOR Operation serving 63 wells	0.00	0.00	0.00	0.00	-721.77	0.00	
4008357A	05/19/80	Modify TEOR Operation serving 18 wells	Cancelled and replaced by 4008375 12/22/83						-112.50
4008359B	05/19/80	Modify TEOR Operation serving 4 wells	Cancelled 1/6/83						-60.00
4008371	05/19/80	TEOR Operation serving 24 wells	Cancelled and replaced by 4008375 12/22/83						-24.00
4008372	05/19/80	TEOR Operation serving 11 wells	0.00	0.00	0.00	0.00	7.20	0.00	
4008319C	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008346C	06/02/80	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008346E 12/23/81						0.00
4008351B	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008070A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008071A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008072A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008073A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008074A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008075A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008091A/B	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008081A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008077C	08/15/80	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008031A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008032B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008033A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008065D	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008066A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008080A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008081C	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008082A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008083A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008084A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008085B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008087A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	



dd

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008088A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008089A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008090A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008092A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008151A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008171A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008213B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008215B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008317C	10/09/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008318B	10/09/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008034C	10/29/80	Retrofit Low-NOx PCC burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077D	11/13/80	O2 analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008077E	11/15/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008350B	02/12/81	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008350D 9/28/81				0.00	0.00
4008352B	02/12/81	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346D	02/13/81	TEOR Operation - add 3 wells	Cancelled and replaced by 4008346E 12/23/81				1.50	0.00
4008349D	02/17/81	TEOR Operation - add 2 wells	0.00	0.00	0.00	0.00	-21.60	0.00
4008026A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008027A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008028A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008070B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-56.00	0.00	0.00
4008071B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008072B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008073B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008074B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008075B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008077F	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008078A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008079A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008091C	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008096A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008097A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008098A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008099A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008102A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008213C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008214A	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008215C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008216B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008218A	03/11/81	O2 controller for Rule 425 compliance	Cancelled and replaced by 4008218C 2/19/82					
4008225B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.38	0.00	0.00
4008228A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008249A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008078B	06/12/81	PM/SO2 Scrubber substitution	Cancelled and replaced by 4008078C				0.00	0.00
4008350C	06/18/81	TEOR Operation - add 1 well	Cancelled and replaced by 4008350D				2.50	0.00
4008317D	07/01/81	TEOR Operation - modify H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008031B	07/22/81	Retrofit scrubber to 2 existing SG's						
		4008031	-22.51	0.00	0.00	0.00	0.00	0.00
		4008030	-22.51	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008032C	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008081E	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008804	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008805	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008806	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008370	03/04/81	TEOR Operation serving 44 wells	0.00	0.00	0.00	0.00	-83.40	0.00
4008317E	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008318C	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008350D	10/14/81	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008349E	10/14/81	TEOR Operation - add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00
4008183A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-36.94	0.00	0.00
4008184A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008185A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008186A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008218B	10/23/81	Flue gas scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008184B	10/27/81	PM/SO2 scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008809	10/27/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008319D	12/09/81	Modify TEOR Operation	0.00	0.00	0.00	0.00	-12.50	0.00
4008346E	12/23/81	Modify TEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00
4008232A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008233A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008234A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008235A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008236A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008237A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008238A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008239A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008240A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008241A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008242A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-135.00	0.00	0.00
4008243A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008350D	02/05/82	Modify TEOR Operation	Cancelled and replaced by 4008350E 1/12/83					
4008218C	02/19/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008810	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008811	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008812	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008813	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008814	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008815	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008816	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008817	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008034D	04/09/82	NOx limit for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008086B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008086E 4/08/86					
4008087B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008087E 4/08/86					
4008088B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008088E 4/08/86					
4008089B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008089E 4/08/86					
4008090B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008090E 4/08/86					
4008382D	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008384C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00

ff

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008385C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008386C	04/19/82	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008059B	06/17/82	25.0 MM BTU/hr replacement S. G.	33.50	5.19	407.35	154.83	2.46	12.60
	06/17/82	Surrender Permit to Operate 4008026	-36.56	-5.68	-443.90	-168.96	-2.77	-13.67
4008386C	11/05/82	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008350E	01/12/83	TEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008385D	06/13/83	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346F	08/16/83	Modify TEOR Operation	0.00	0.00	0.00	0.00	44.10	0.00
4008385E	09/07/83	Modify TEOR operation; replace compressor	0.00	0.00	0.00	0.00	0.00	0.00
4008810A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008811A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008812A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008813A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008814A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008815A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008816A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008817A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40
4008384D	12/05/83	Modify TEOR Operation; add 3 wells	Cancelled and replaced by 4008384F 6/18/84					
4008347C	01/02/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	2.14	0.00
4008382F	01/03/84	Modify TEOR Operation; remove compressor	0.00	0.00	0.00	0.00	0.00	0.00
4008375	01/30/84	TEOR Operation replacing 4008357 & 371	0.00	0.00	0.00	0.00	0.00	0.00
4008436A	02/13/84	Modify tank setting vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00
4008384E	04/04/84	Modify TEOR Operation	Cancelled and replaced by 4008384F 6/18/84					
4008385F	05/23/84	Modify TEOR Operation H2S scrubbing syst.	0.00	0.00	0.00	0.00	0.00	0.00
4008384F	06/18/84	Modify TEOR Operation	0.00	0.00	0.00	0.00	20.20	0.00
4008070C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00
4008071C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00
4008072C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00
4008073C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00
4008074C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00
4008031C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008032D	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008033B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008065E	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008077F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008078C	11/14/84	Set Rule 424 sulfur limit for this S. G.	9.80	0.00	0.00	0.00	0.00	0.00
4008080B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008081F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008082B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008083B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008084B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008085D	11/14/84	Set Rule 424 sulfur limit for this S. G.	Cancelled and replaced by 4008085F 4/08/86					
4008086C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008087C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008088C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008089C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008090C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008093A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008094A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

99

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008095A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008150A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008184C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008185B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008186B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.30	0.00
4008334G	12/12/84	Mod. TEOR Operation: add 10 wells	0.00	0.00	0.00	0.00	51.64	0.00
4008385G	12/12/84	Mod. TEOR Operation: add 18 wells	0.00	0.00	0.00	0.00	2.34	0.00
4008386G	12/12/84	Mod. TEOR Operation: add 14 wells	0.00	0.00	0.00	0.00	1.82	0.00
4008377	01/03/85	TEOR Operation serving wells	0.00	0.00	156.00	0.00	179.00	0.00
4008225C	05/29/85	Limit steam generator fuel consumption	-6.60	-1.90	-14.20	-28.10	-0.50	-2.30
	05/29/85	Excess Gulf Rule 424 emission reductions		-159.17	-1029.90			
4008318D	06/12/85	Mod. TEOR Operation: add 20 wells	Cancelled and replaced by 4008318D 8/27/85					
4008384H	06/22/85	Mod. TEOR Operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008814C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008815C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008816C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008817C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008392	06/26/85	TEOR Operation serving 107 S. D. wells	0.00	0.00	0.00	0.00	219.80	0.00
4008031D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008031F 4/08/86					
4008032E	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008033C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008080C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008081G	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008082C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008083C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008084C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008086D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008086F 4/08/86					
4008087D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008087F 4/08/86					
4008088D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008088F 4/08/86					
4008089D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008089F 4/08/86					
4008090D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008090F 4/08/86					
4008093B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00
4008094B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00
4008814B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008815B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008816B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008817B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008819	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008820	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008821	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008822	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
	07/22/85	Excess Rule 424 sulfur compound reductions		-122.74	-1420.35			
4008066D	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008070E	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008071E	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008072E	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008073E	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008074E	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008092B	07/22/85	Retrofit lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00

hh

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM Tbn/day	SO4 Tbn/day	SO2 Tbn/day	NO2 Tbn/day	HC Tbn/day	CO Tbn/day
40088108	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
40088118	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
40088128	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
40088138	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4009919A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008820A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008823	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008824	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008825	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008826	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008827	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008828	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008829	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008384H	07/22/85	Modify TEOR operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008378	08/26/85	New TEOR operation # 52 serving 20 wells	0.00	0.00	0.00	0.00	103.62	0.00
4008317F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-81.60	0.00
4008318E	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	69.10	0.00
4008346G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008347D	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-32.80	0.00
4008349G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-244.70	0.00
4008350F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-63.20	0.00
4008351C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-42.60	0.00
4008352C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-26.00	0.00
4008370A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008375A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008093C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008094C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008379	08/30/85	New TEOR operation serving 20 wells	0.00	0.00	0.00	0.00	62.80	0.00
4008213D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008218D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008219D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008220B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008225B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008031E	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008031G 4/08/86					
4008032F	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008033D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008065F	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077H	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008080D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008081H	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008082D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008083D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008084D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008085E	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008085G 4/08/86					
4008091D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008093D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008094D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008095B	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008151B	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008167B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008167C	4/10/87				
4008168A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008168B	4/10/87				
4008169A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008169B	4/10/87				
4008170A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008170B	4/10/87				
4008171B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008171C	4/10/87				
4008174A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008174B	4/10/87				
4008175A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008175B	4/10/87				
4008176A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008176B	4/10/87				
4008177B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008177C	4/10/87				
4008178A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008178B	4/10/87				
4008184D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008185C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008186C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008384I	02/20/86	Replace air cooled heat exchanger	0.00	0.00	0.00	0.00	0.00	0.00
4008070F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00
4008071F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00
4008072F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00
4008073F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00
4008074F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00
4008085F	04/08/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00
4008031G	04/03/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008031F	04/02/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008085G	04/05/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008085E	04/03/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008086F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008087E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008087F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008088E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008088F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008089E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008089F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008090E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00
4008090F	04/03/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00
4008451	05/01/86	Tank battery vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00
4008092C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008151C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008318F	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	15.24	0.00
4008347E	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	138.88	0.00
4008350G	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	19.44	0.00
4008351D	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	21.44	0.00
4008319E	09/26/86	Modify TEOR operation; add 23 wells	0.00	0.00	0.00	0.00	62.36	0.00
4008349H	10/27/86	Modify TEOR operation; add 12 wells	0.00	0.00	0.00	0.00	37.66	0.00
4008317H	10/28/86	Modify TEOR operation; add 14 wells	0.00	0.00	0.00	0.00	43.96	0.00
4008352E	10/28/86	Modify TEOR operation; add 11 wells	0.00	0.00	0.00	0.00	34.54	0.00
4008027B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008028B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008031H	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008032G	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008033E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00



Chevron U. S. A. Western Stationary Source

55

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
400034E	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.06	0.00	0.00	0.00
400059C	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400065G	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
400065C	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.01	0.00	0.00	0.00
400069A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
400070G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
400071G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
400072G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
400073G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
400074G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
400075D	04/10/87	Change S. G. conditions of approval	-21.12	-9.92	-37.43	0.00	0.00	0.00
400077I	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
400078D	04/10/87	Change S. G. conditions of approval	0.00	0.00	23.55	0.00	0.00	0.00
400079B	04/10/87	Change S. G. conditions of approval	0.00	0.00	8.81	0.00	0.00	0.00
400080F	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
400081I	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
400082E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
400083E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
400084E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
400085J	04/10/87	Change S. G. conditions of approval	-10.77	7.92	88.92	0.00	0.00	0.00
400086G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
400087G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
400088G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
400089G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
400090G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
400091H	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400092D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	53.86	0.00	0.00	0.00
400093E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
400094E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
400095C	04/10/87	Change S. G. conditions of approval	-11.90	0.00	54.01	0.00	0.00	0.00
400096B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400097B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400098B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400099B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400100A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
400101A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
400102B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
400150B	04/10/87	Change S. G. conditions of approval	-6.04	0.00	23.55	-54.91	0.00	0.00
400151D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	20.53	0.00	0.00	0.00
400167C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400168B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400169B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400170B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400171C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	33.18
400174B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400175B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400176B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400177C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
400178B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26

Chevron U. S. A. Western Stationary Source

KK

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008179A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008184E	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008185D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008196D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008213E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-55.67	-74.88	-1.25	-6.24
4008214B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-305.28	-74.88	-1.25	-6.24
4008215D	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008216C	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008218E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-78.48	-74.88	-1.25	-6.24
4008219E	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008220C	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008225E	04/10/87	Change S. G. conditions of approval	-27.76	-3.37	-24.55	-62.90	-1.02	-5.24
4008229B	04/10/87	Change S. G. conditions of approval	-34.63	0.58	-34.98	-74.88	-1.68	-6.64
4008232B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008233B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008234B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008235B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008236B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008237B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008238B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008239B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008240B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008241B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008242B	04/10/87	Change S. G. conditions of approval	-36.91	-8.23	-28.51	-117.00	-2.55	-13.00
4008245B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008249B	04/10/87	Change S. G. conditions of approval	-36.79	0.60	-32.18	-74.88	-1.40	-7.10
4008810C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008811C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008812C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008813C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008814D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008815D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008816D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008817D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008819B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008820B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008821A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008822A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008823A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008824A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008825A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008826A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008827A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008828A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008829A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
	04/10/87	Surrender Permit to Operate # 4008183	-28.23	-11.27	-353.93	-113.66	-1.89	-9.47
	04/10/87	Surrender Permit to Operate # 4008187	-32.04	-12.80	-401.76	-96.77	-2.15	-10.75
4008810D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008812D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008819C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008820C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008821B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008822B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008870I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008871I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008872I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008873I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008874I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008892E	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815F	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008870H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008871H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008872H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008873H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008874H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
400884B2	05/21/87	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008873H	05/22/87	Mod. S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008810E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008811E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008812E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008813E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008814F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008815F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008816F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008817F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008819D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008820D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008821C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008822C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008823B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008824B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008825B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008826B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008827B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008828B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008829B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008502	07/28/87	LPG truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008503	07/28/87	LPG truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008377A	09/03/87	TEOR modification; add 18 wells	0.00	0.00	-156.00	0.00	56.52	0.00
4008027C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008028C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008031I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Western Stationary Source

mm

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008032H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008033F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008034F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008059D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.30	0.00
4008065H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008066F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008069B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008075E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008077J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008078E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008079C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008080G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008081J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008082F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008083F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008084E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008085K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008086L	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008087I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008088I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008089I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008091J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008092G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008093G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008094G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008095E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.36	0.00
4008096C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008097C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008098C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008099C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008100B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008101B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008102C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008150C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008151G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008167D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008168D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008170C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008171D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008172A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008173A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008174C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008175C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008176C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008177D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008178C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008179B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008184F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00



Chevron U. S. A. Western Stationary Source

nm

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008185E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008186E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008195A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008202B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008203A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008204A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008205A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008206A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008207A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008208A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008213G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008214D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008215F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008216E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008218G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008219G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008220E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008225G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.15	0.00
4008228D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	3.84	0.00
4008232D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008233C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008234C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008235C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008236C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008237C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008238C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008239C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008240C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008241C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008242D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008243D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008249D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008285A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008286A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008289A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008070K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008071K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008072K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008073K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008074K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008075F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008077K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008078F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091L	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091M	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008319F	10/08/87	Modification of existing TEOR operation	0.00	0.00	0.00	0.00	100.48	0.00
Total adjustments from 9/12/79 to 6/22/87 =			-44.21	164.71	-749.82	-3756.59	-3570.62	3026.30



Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

PP

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008091P	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093F	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151E	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008484		Permit existing unpermitted tank	Denied 5/17/88					
4008485		Permit existing unpermitted tank	Denied 5/17/88					
4008486		Permit existing unpermitted tank	Denied 5/17/88					
4008487		Permit existing unpermitted tank	Denied 5/17/88					
4008488		Permit existing unpermitted tank	Denied 5/17/88					
4008220F	05/23/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008489		Permit existing unpermitted tank	Denied 6/6/88					
4008490		Permit existing unpermitted tank	Denied 6/6/88					
4008491		Permit existing unpermitted tank	Denied 6/6/88					
4008492		Permit existing unpermitted tank	Denied 6/6/88					
4008493		Permit existing unpermitted tank	Denied 6/6/88					
4008494		Permit existing unpermitted tank	Denied 6/6/88					
4008495		Permit existing unpermitted tank	Denied 6/6/88					
4008098D	08/17/88	Add multiple locations for steam gen.	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008347F	10/19/88	TEOR modification; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008451A	10/19/88	Tank bat. mod.; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008171E	10/28/88	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008096D	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008213H	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008504	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008505	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008506	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008507	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008508	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008509	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008510	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008511	02/24/89	5,000 bbl capacity FWKO tank # T-1	0.00	0.00	0.00	0.00	0.84	0.00
4008512	02/24/89	2,000 bbl capacity LACT tank # T-2	0.00	0.00	0.00	0.00	0.81	0.00
4008513	02/24/89	2,000 bbl capacity reject tank # T-3	0.00	0.00	0.00	0.00	0.09	0.00



Chevron U. S. A. Western Stationary Source

99

Adjustments Represented by Authorities to Construct Issued After 3/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO ₂ lbm/day	SO ₂ lbm/day	NO ₂ lbm/day	HC lbm/day	CO lbm/day
4008514	02/24/89	1,000 bbl capacity slop oil tank # T-4	0.00	0.00	0.00	0.00	0.02	0.00
4008515	02/24/89	3,000 bbl capacity waste water tank # T-5	0.00	0.00	0.00	0.00	0.04	0.00
4008516	02/24/89	Heater treater # V-1	0.00	0.00	0.00	0.00	0.00	0.00
4008517	02/24/89	Heater treater # V-2	0.00	0.00	0.00	0.00	0.00	0.00
4008518	02/24/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	12.34	0.00
4008519	03/01/89	5,000 bbl capacity FWKO tank # T-1	0.00	0.00	0.00	0.00	0.18	0.00
4008520	03/01/89	5,000 bbl capacity FWKO tank # T-2	0.00	0.00	0.00	0.00	0.73	0.00
4008521	03/01/89	10,000 bbl capacity wash tank # T-3	0.00	0.00	0.00	0.00	0.00	0.00
4008522	03/01/89	10,000 bbl capacity wash tank # T-4	0.00	0.00	0.00	0.00	0.13	0.00
4008523	03/01/89	2,000 bbl capacity LACT tank # T-5	0.00	0.00	0.00	0.00	0.22	0.00
4008524	03/01/89	2,000 bbl capacity reject tank # T-6	0.00	0.00	0.00	0.00	0.06	0.00
4008525	03/01/89	1,000 bbl capacity slop oil tank # T-1	0.00	0.00	0.00	0.00	0.06	0.00
4008526	03/01/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	2.43	0.00
4008092H	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008151K	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008171F	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008031K	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008088L	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008384J	07/12/89	TEOR Modification, Add K.O.	0.00	0.00	0.00	0.00	0.23	0.00
4008070L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008071L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008072L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008073L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008074L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008080H	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008081G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008082G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008317I	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008350H	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008352F	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008091P	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095F	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008377B	01/17/90	TEOR Change Conditions	0.00	0.00	0.00	0.00	0.00	0.00



Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

rr

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008077L	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008174D	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008175D	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008176D	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008219H	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008220G	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008333E	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008334C	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008335C	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008336A	02/22/90	Lo-NOx Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008332A			Denied 3/19/90					
4008031M	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008035D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008086C	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008087D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008093D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008099D	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008498	07/09/90	TEOR with 15 Wells	0.00	0.00	0.00	0.00	19.69	0.00
4008218H	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008225H	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008782A	09/27/90	SG Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008070M	10/08/90	Make Gas Fired only Add FGR	0.00	0.00	0.00	-25.67	0.00	0.00
SSSA for 4008070M			0.00	0.00	0.00	2.57	0.00	0.00
4008071M	10/08/90	Make Gas Fired Only Add FGR	-14.91	-1.29	-19.28	-113.51	0.00	0.00
SSSA for 4008071M			1.49	0.13	1.93	11.35	0.00	0.00
4008072M	10/08/90	Make Gas Fired Only Add FGR	-22.04	-4.85	-30.14	-106.10	0.00	0.00
SSSA for 4008072M			2.20	0.49	3.01	10.61	0.00	0.00
4008073M	10/08/90	Make Gas Fired Only Add FGR	0.00	0.00	0.00	-24.66	0.00	0.00
SSSA for 4008073M			0.00	0.00	0.00	2.47	0.00	0.00
4008074M	10/08/90	Make Gas Fired Only Add FGR	-20.54	-7.58	-8.23	-104.34	0.00	0.00
SSSA for 4008074M			2.05	0.77	0.82	10.43	0.00	0.00
4008032 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008032 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 L	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 M	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00

~~55~~
55

Chevron U. S. A. Western Stationary Source

55

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM tcb/day	SO4 tcb/day	SO2 tcb/day	NOx tcb/day	HC tcb/day	CO tcb/day
4008082 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008082 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008082 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008083 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008083 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008084 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008084 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008089 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008090 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008202 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008202 D	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008203 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008203 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008204 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008204 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008396 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008095 H	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008167 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008168 G	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008169 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008170 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008177 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008178 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008242 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4008531 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4008532 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4008001 D	02/27/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008092 I	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-2.67	0.00	0.00
4008151 L	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.26	0.00	0.00
4008171 G	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-51.34	0.00	0.00
4008174 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-10.27	0.00	0.00
4008175 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-54.28	0.00	0.00
4008176 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-30.89	0.00	0.00
4008206 B	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.03	0.00	0.00
	11/05/90	SSSA for this project is netted out	0.00	0.00	0.00	0.00	0.00	0.00
4008001 D	02/01/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008032 K	02/14/91		-18.66	-8.83	-19.01	-62.39	0.00	0.00
4008033 I	02/14/91		-12.12	-5.67	-12.98	-42.91	0.00	0.00
4008082 K	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008083 I	02/14/91		-12.45	-6.06	-13.09	-39.05	0.00	0.00
4008084 I	02/14/91		-12.26	-6.08	-12.83	-45.92	0.00	0.00
4008088 P	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008195 B	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00

~~75~~
75

Chevron U. S. A. Western Stationary Source

77

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PK lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4002285 C	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4002286 C	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
	02/14/91	SSSA for this project	5.55	2.66	5.79	19.13	0.00	0.00
4008511 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	4.25	0.00
4008512 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.39	0.00
4008513 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	1.11	0.00
4008514 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008515 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	3.86	0.00
4008516 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008517 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008518 A	02/24/91	Increase Throughput Recalc	0.00	0.00	0.00	0.00	-11.85	0.00
4008242 F	04/11/91	Change Location Issue date stays at 6/1/89	0.00	0.00	0.00	0.00	0.00	0.00
4008919	04/22/91	Blast Booth	8.11	0.00	0.00	0.00	0.00	0.00
4008027 E	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008059 E	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008065 K	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008070 N	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008071 N	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008077 Q	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008091 Q	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008171 H	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008918	06/12/91	Paint Booth	0.92	0.00	0.00	0.00	20.71	0.00
4008549	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008550	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008551	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008552	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008553	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008554	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008555	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008556	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008557	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008558	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008559	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008560	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008561	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008562	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008563	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008564	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008565	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008566	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008567	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008568	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008569	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008570	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008571	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008576	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008577	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008578	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008579	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00

1

Chevron U. S. A. Western Stationary Source

UU

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PK lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008581	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008582	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008583	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008584	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008585	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008586	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008587	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008588	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008589	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008590	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008530 A	07/17/91	Replace 4008530	0.00	0.00	0.00	0.00	0.00	0.00
4008519 A		Change operating throughput	0.00	0.00	0.00	0.00	3.02	0.00
4008520 A		Change operating throughput	0.00	0.00	0.00	0.00	8.02	0.00
4008521 A		Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008522 A		Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008523 A		Change operating throughput	0.00	0.00	0.00	0.00	0.35	0.00
4008524 A		Change operating throughput	0.00	0.00	0.00	0.00	1.63	0.00
4008525 A		Change operating throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008526 A		Change operating throughput	0.00	0.00	0.00	0.00	-2.41	0.00
Total adjustments authorized after 9/12/79=			-92.66	128.30	-853.63	-676.73	74.16	3026.30

Verified 2/14/91 LB

Updated 8/15/91 GRM

4008591-600

847
HDS

VIII. Conclusions:

VV

Compliance with all rules and regulations as listed in Section II is expected. (See section V, Engineering Analysis)

IX. Recommendations:

Issue Authorities to Construct for proposed project subject to the ~~following~~ conditions: *contained in the draft ATCs*

KERN APCD

Enter and Maintain Project File

12/11/92

***** 13:10:20

Project # 910411 Company # 4 008 Processing Engr WZIG Supervising Engr TEG
Receivd Date 04 11 91 High Priority (Y/N) N Allotted Processing Time 9999 . 99
Description 10 NEW STEAM GENERATORS IN THE MCKITTRICK/CYMRIC AREA

Company Name CHEVRON U.S.A., INC. Number of Applications 10
Contact Name MR. R. K. CONNON Other Contact Name (Y/N) N
Contact Title WESTERN REGION/DIVISION MGR. Phone 805 - 392 - 3300
Need Additional Information
00 / 00 / 00 00 / 00 / 00 00 / 00 / 00 00 / 00 / 00 00 / 00 / 00
Add'l Information Received
00 / 00 / 00 00 / 00 / 00 00 / 00 / 00 00 / 00 / 00 00 / 00 / 00
Processing Start Date 00 / 00 / 00
Notification of Completeness 05 / 11 / 91
Preliminary Public Notice 00 / 00 / 00
Final Public Notice 00 / 00 / 00
Processing End Date 08 / 20 / 91
Final Review Date 08 / 21 / 91 Western/Central W
A To C Code A To C Issue Date 09 / 12 / 91
Cmd1-Brws Frwd Cmd2-Brws Bkwd Cmd3-Prev Screen Cmd6-Update Cmd7-End
Cmd8-Emissions Cmd 9-Brws A/C's Cmd10-Status Cmd 12 - Add A/C's
Current Program: AP106 Format Member: AP106FM Format: Screen2 More...
12-05 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

12/11/92

***** 13:11:06

A to C # 4 008 591 Equip Code 28087 Location Qtr SE Sec 01 T 30 S R 21 E
Project # 910411 Processing Engr WZIG Supervising Engr TEG
Company Name CHEVRON U.S.A., INC. Western/Central W
Contact Name MR. R. K. CONNON
Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
Equipment Type STEAM GENERATOR Rating 62500000 . 00
Mnf STRUTHERS Application Received Date 4 / 11 / 91
Filing Fee Receipt Number 0010313 Amount 60 . 00 Date 4 / 11 / 91
Mailing, Statement for Fees Due 8 / 21 / 91
Fee Receipt Number 0011863 Amount 1156 . 00 Date 9 / 12 / 91
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 9 / 12 / 91
Startup inspection inspector Date
Initial Source Test Required (Y/N)
Annual Source Test Required (Y/N)
Source Test Inspector Date
P/O Issued or Denied (I/D/C/T) New/Purchased From
P/O Sold/Offset for Project/Banked/Graveyarded Proj# 000000
Comments: Create Billing N
CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
03-38 SA MW KS IM II S1 KB

50

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
------------	------------	---------------------	------------	-------------	-------------	-------------	------------	------------

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
------------	------------	---------------------	------------	-------------	-------------	-------------	------------	------------

40080528	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
40080568	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109C	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.60
4008121B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008122B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008123B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008124B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008125B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008041B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008046B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008109D	02/19/80	Decrease PM control efficiency; 70% to 40% PM emission increase offset with road paving	0.00	0.00	0.00	0.00	0.00	0.00
4008127A	02/21/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008301A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-165.00	0.00
4008302B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-374.40	0.00
4008303B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-715.00	0.00
4008304A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-344.60	0.00
4008305B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-195.00	0.00
4008306B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-390.00	0.00
4008307A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-135.00	0.00
4008308B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-510.00	0.00
4008309C	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-585.00	0.00
4008310B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-203.80	0.00
4008311A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-413.90	0.00
4008313B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-877.50	0.00
4008315A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-222.00	0.00
4008316B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-463.50	0.00
4008322B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-460.30	0.00
4008323A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-598.00	0.00
4008324B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-249.20	0.00
4008325A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-432.55	0.00
4008326A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-75.00	0.00
4008327A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-45.00	0.00
4008328B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-80.90	0.00
4008329B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	25.00	0.00
4008330B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-40.40	0.00
4008331A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-131.40	0.00
4008332A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-255.00	0.00
4008334A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	600.00	0.00
4008335A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	300.00	0.00
4008336A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-225.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008176	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008176B 4/10/87						
4008177	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008177C 4/10/87						
4008177A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008178	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008178B 4/10/87						
**** These Authorities to Construct remain invalid until particulate offsets have been provided.									
4008317B	05/19/80	Modify TEOR Operation serving 62 wells	Cancelled and replaced by 4008317E 9/28/81						-263.38
4008318A	05/19/80	Modify TEOR Operation serving 37 wells	0.00	0.00	0.00	0.00	-414.60	0.00	
4008319B	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-457.01	0.00	
4008343B	05/19/80	Modify TEOR Operation serving 111 wells	0.00	0.00	0.00	0.00	-882.29	0.00	
4008345A	05/19/80	Modify TEOR Operation serving 38 wells	Cancelled and Replaced by 4008319D 5/12/82						-69.84
4008346B	05/19/80	Modify TEOR Operation serving 22 wells	Cancelled and Replaced by 4008346E 12/23/81						-295.00
4008347B	05/19/80	Modify TEOR Operation serving 40 wells	Cancelled and Replaced by 4008347C 6/29/84						-103.18
4008349C	05/19/80	Modify TEOR Operation serving 40 wells	0.00	0.00	0.00	0.00	-567.14	0.00	
4008350A	05/19/80	Modify TEOR Operation serving 41 wells	Cancelled and Replaced by 4008350C 9/28/81						-397.78
4008351A	05/19/80	Modify TEOR Operation serving 31 wells	0.00	0.00	0.00	0.00	-403.55	0.00	
4008352B	05/19/80	Modify TEOR Operation serving 66 wells	0.00	0.00	0.00	0.00	-567.05	0.00	
4008353A	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-580.00	0.00	
4008354A	05/19/80	Modify TEOR Operation serving 63 wells	0.00	0.00	0.00	0.00	-721.77	0.00	
4008357A	05/19/80	Modify TEOR Operation serving 18 wells	Cancelled and replaced by 4008375 12/22/83						-112.50
4008359B	05/19/80	Modify TEOR Operation serving 4 wells	Cancelled 1/6/83						-60.00
4008371	05/19/80	TEOR Operation serving 24 wells	Cancelled and replaced by 4008375 12/22/83						24.00
4008372	05/19/80	TEOR Operation serving 11 wells	0.00	0.00	0.00	0.00	7.20	0.00	
4008319C	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008346C	06/02/80	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008346E 12/23/81						0.00
4008351B	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008070A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008071A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008072A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008073A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008074A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008075A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008091A/B	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008081A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00	
4008077C	08/15/80	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008031A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008032B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008033A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008065D	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008066A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008080A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008081C	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008082A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008083A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008084A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008085B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	
4008087A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00	

Chevron C. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	EO2 lbm/day	HC lbm/day	CO lbm/day	
4008077A	11/08/79	Retrofit scrubber on existing steam gen.	Cancelled and Replaced by 4008077C 8/15/80						
4008219A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008220A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008343A	12/06/79	Modification of FEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008096	12/27/79	Y of L and correct A to C	0.00	0.00	0.00	0.00	0.00	0.00	
4008385B	02/15/80	Modify FEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008386B	02/15/80	Modify FEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008225	04/02/80	Substitute steam generator for # 4020001	0.00	0.00	0.00	0.00	0.00	0.00	
4008066	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008069	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008092	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008093	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008094	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008095	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008100	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008101	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008150	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008151	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008179	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008349B	04/30/80	Experimental H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	05/19/80	Retrofit scrubber to 4 existing S. G.s	Cancelled and replaced by 4008032C 7/22/81						
	05/19/80	4008032	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008033	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008080	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008084	-22.51	0.00	0.00	0.00	0.00	0.00	
4008034B	05/19/80	Modify existing scrubber; add 4 SG's	0.00	0.00	0.00	0.00	0.00	0.00	
4008065C	05/19/80	Mod. scrubber serving SG's 065, 078, 079	Cancelled and Replaced by 4008065E 11/14/84						
4008077B	05/19/80	Mod. scrubber serving SG 4008077	Cancelled and Replaced by 4008077C 8/15/80						
4008081B	05/19/80	Retrofit scrubber to 3 existing S. G.s	Cancelled and replaced by 4008081E 7/22/81						
	05/19/80	4008081	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008082	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008083	-22.51	0.00	0.00	0.00	0.00	0.00	
4008085A	05/19/80	Retrofit scrubber to 5 existing S. G.s	Cancelled and replaced by 4008085B 7/22/81						
	05/19/80	4008085	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008086	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008087	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008088	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008089	-22.51	0.00	0.00	0.00	0.00	0.00	
4008091A	05/19/80	Mod. scrubber serving SG 4008091	0.00	0.00	0.00	0.00	0.00	0.00	
4008167	05/19/80	62.5 MM BTU/hr steam generator	Cancelled and replaced by 4008167C 4/10/87						
4008167A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008168	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008168B 4/10/87						
4008169	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008169B 4/10/87						
4008170	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008170B 4/10/87						
4008171	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008171C 4/10/87						
4008172	05/19/80	27.5 MM BTU/hr Struthers steam generator	****	****	****	126.72	****	****	
4008173	05/19/80	27.5 MM BTU/hr C E Natco steam generator	****	****	****	126.72	****	****	
4008174	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008174B 4/10/87						
4008175	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008175B 4/10/87						

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/75

A to C Co.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008176	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008176B 4/10/87					
4008177	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008177C 4/10/87					
4008177A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.90	0.00	0.00	0.00
4008178	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008178B 4/10/87					
**** These Authorities to Construct remain invalid until particulate offsets have been provided.								
4008317B	05/19/80	Modify TEOR Operation serving 62 wells	Cancelled and replaced by 4008317B 9/28/81				-263.38	
S-0038-1	09/27/93	Re-establish Emission Reduction Credits for 4008317B					263.38	
4008318A	05/19/80	Modify TEOR Operation serving 37 wells	0.00	0.00	0.00	0.00	-414.60	0.00
S-0056-1	09/27/93	Re-establish Emission Reduction Credits for 4008318A					278.73	
4008319B	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-457.01	0.00
S-0057-1	09/27/93	Re-establish Emission Reduction Credits for 4008319B					399.26	
4008343B	05/19/80	Modify TEOR Operation serving 111 wells	0.00	0.00	0.00	0.00	-882.29	0.00
4008345A	05/19/80	Modify TEOR Operation serving 38 wells	Cancelled and Replaced by 4008319D 5/12/82				-69.84	0.00
S-0060-1	09/27/93	Re-establish Emission Reduction Credits for 4008345A					69.84	
4008346B	05/19/80	Modify TEOR Operation serving 22 wells	Cancelled and Replaced by 4008346E 12/23/81				-295.00	0.00
S-0061-1	09/27/93	Re-establish Emission Reduction Credits for 4008346B					165.73	
4008347B	05/19/80	Modify TEOR Operation serving 40 wells	Cancelled and Replaced by 4008347C 6/20/84				-103.18	0.00
S-0062-1	09/27/93	Re-establish Emission Reduction Credits for 4008347B					103.18	
4008349C	05/19/80	Modify TEOR Operation serving 49 wells	0.00	0.00	0.00	0.00	-567.14	0.00
S-0063-1	09/27/93	Re-establish Emission Reduction Credits for 4008349C					301.33	
4008350A	05/19/80	Modify TEOR Operation serving 41 wells	Cancelled and Replaced by 4008350C 9/28/81				-397.78	0.00
S-0058-1	09/27/93	Re-establish Emission Reduction Credits for 4008350A					308.86	
4008351A	05/19/80	Modify TEOR Operation serving 31 wells	0.00	0.00	0.00	0.00	-403.55	0.00
4008352B	05/19/80	Modify TEOR Operation serving 66 wells	0.00	0.00	0.00	0.00	-567.05	0.00
4008353A	05/19/80	Modify TEOR Operation serving 53 wells	0.00	0.00	0.00	0.00	-580.00	0.00
4008354A	05/19/80	Modify TEOR Operation serving 63 wells	0.00	0.00	0.00	0.00	-721.77	0.00
4008357A	05/19/80	Modify TEOR Operation serving 18 wells	Cancelled and replaced by 4008375 12/22/83				-112.50	0.00
4008359B	05/19/80	Modify TEOR Operation serving 4 wells	Cancelled 1/6/83				-60.00	0.00
4008371	05/19/80	TEOR Operation serving 24 wells	Cancelled and replaced by 4008375 12/22/83				24.00	0.00
4008372	05/19/80	TEOR Operation serving 11 wells	0.00	0.00	0.00	0.00	7.20	0.00
4008319C	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346C	06/02/80	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008346E 12/23/81					0.00
4008351B	06/02/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008070A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008071A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008072A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008073A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008074A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008075A	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008091A/B	07/14/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008032A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00
4008081A	07/29/80	PM/SO2 scrubber modification	0.00	0.00	0.00	0.00	0.00	0.00
4008077C	08/15/80	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008031A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008032B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008033A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008065D	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008066A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	HC lbm/day	CO lbm/day
4008080A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008081C	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008082A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008083A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008084A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008085B	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008086A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008087A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008088A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008089A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008090A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008092A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008151A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008171A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008213B	10/09/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008215B	10/09/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008317C	10/09/80	FEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008318B	10/09/80	FEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008034C	10/29/80	Retrofit Low-COx FCC burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077D	11/13/80	O2 analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008077E	11/15/80	FM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008350B	02/12/81	FEOR Operation - add H2S scrubber	Cancelled and replaced by 4008350D 9/28/81				0.00	0.00
4008352B	02/12/81	FEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346D	02/13/81	FEOR Operation - add 3 wells	Cancelled and replaced by 4008346E 12/23/81				7.50	0.00
4008349D	02/17/81	FEOR Operation - add 2 wells	0.00	0.00	0.00	0.00	-21.60	0.00
4008026A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008027A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008028A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008070B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008071B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008072B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008073B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008074B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008075B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008077F	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008078A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008079A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008091C	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008096A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008097A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008098A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008099A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008102A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008213C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008214A	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008215C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008216B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008218A	03/11/81	O2 controller for Rule 425 compliance	Cancelled and replaced by 4008218C 2/19/82				0.00	0.00
4008225B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.38	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	EC2 lbm/day	HC lbm/day	CO lbm/day
4008228A	04/15/81	Substitute scrubber, add Lo-EOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008249A	04/15/81	Substitute scrubber, add Lo-EOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008073B	06/12/81	PM/SO2 Scrubber substitution	Cancelled and replaced by 4008078C				0.00	0.00
4008350C	06/18/81	FEOR Operation - add 1 well	Cancelled and replaced by 4008350E				2.50	0.00
4008317C	07/01/81	FEOR Operation - modify H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008031B	07/22/81	Retrofit scrubber to 2 existing SG's						
		4008031	-22.51	0.00	0.00	0.00	0.00	0.00
		4008030	-22.51	0.00	0.00	0.00	0.00	0.00
4008032C	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008081E	07/22/81	Mod. scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008804	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008805	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008806	07/22/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008370	09/04/81	FEOR Operation serving 44 wells	0.00	0.00	0.00	0.00	-83.40	0.00
4008317E	10/14/81	FEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008318C	10/14/81	FEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008350D	10/14/81	FEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00
4008349E	10/14/81	FEOR Operation - add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00
4008183A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-36.94	0.00	0.00
4008184A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008185A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008186A	10/22/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008218B	10/23/81	Flue gas scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008184B	10/27/81	PM/SO2 scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008809	10/27/81	Soda ash storage storage silo	0.10	0.00	0.00	0.00	0.00	0.00
4008319D	12/09/81	Modify FEOR Operation	0.00	0.00	0.00	0.00	-12.50	0.00
4008346E	12/23/81	Modify FEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00
4008232A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008233A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008234A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008235A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008236A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008237A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008238A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008239A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008240A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008241A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008242A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-155.00	0.00	0.00
4008243A	01/11/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008350D	02/05/82	Modify FEOR Operation	Cancelled and replaced by 4008350E 1/12/83					
4008218C	02/19/82	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008810	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008811	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008812	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008813	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008814	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008815	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008816	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60
4008817	03/08/82	Gas fired cogeneration system	28.32	0.00	144.96	544.80	24.96	81.60

56

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CO lbs/day	
4008034D	04/09/82	COx limit for Rule 425 compliance	0.00	0.00	0.00	-56.00	0.00	0.00	
4008385B	04/09/82	COx limit for Rule 425 compliance	Cancelled and replaced by 4008036E 4/08/86						
4008087B	04/09/82	COx limit for Rule 425 compliance	Cancelled and replaced by 4008037E 4/08/86						
4008088B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008089E 4/08/86						
4008089B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008089E 4/08/86						
4008090B	04/09/82	NOx limit for Rule 425 compliance	Cancelled and replaced by 4008090E 4/08/86						
4008382D	04/19/82	Modify FEOR operation	0.00	3.00	0.00	0.00	0.00	0.00	
4008384C	04/19/82	Modify FEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008385C	04/19/82	Modify FEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008386C	04/19/82	Modify FEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008059B	06/17/82	25.0 MM BTU/hr replacement S. G.	33.50	5.19	407.35	154.83	2.46	12.60	
	06/17/82	Surrender Permit to Operate 4008026	-36.56	-5.68	-443.90	-168.96	-2.77	-13.67	
4008386C	11/05/82	Modify FEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008350E	01/12/83	FEOR Operation - change well listing	0.00	0.00	0.00	0.00	0.00	0.00	
4008385D	06/13/83	Modify FEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008346F	08/16/83	Modify FEOR Operation	0.00	0.00	0.00	0.00	44.10	0.00	
4008385E	09/07/83	Modify FEOR operation; replace compressor	0.00	0.00	0.00	0.00	0.00	0.00	
4008810A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008811A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008812A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008813A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008814A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008815A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008816A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008817A	10/06/83	Increase cogenerator CO emission limit	0.00	0.00	0.00	0.00	0.00	50.40	
4008384D	12/05/83	Modify FEOR Operation; add 3 wells	Cancelled and replaced by 4008384F 6/18/84						
4008347C	01/02/84	Modify FEOR Operation	0.00	0.00	0.00	0.00	2.14	0.00	
4008382F	01/03/84	Modify FEOR Operation; recove compressor	0.00	0.00	0.00	0.00	0.00	0.00	
4008375	01/30/84	FEOR Operation replacing 4008357 & 371	0.00	0.00	0.00	0.00	0.00	0.00	
4008436A	02/13/84	Modify tank setting vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00	
4008384E	04/04/84	Modify FEOR Operation	Cancelled and replaced by 4008384F 6/18/84						
4008385F	05/23/84	Modify FEOR Operation H2S scrubbing syst.	0.00	0.00	0.00	0.00	0.00	0.00	
4008384F	06/18/84	Modify FEOR Operation	0.00	0.00	0.00	0.00	20.20	0.00	
4008070C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008071C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008072C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008073C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008074C	06/29/84	Change S. G. fuel sulfur limit	16.80	7.84	-5.26	0.00	0.00	0.00	
4008031C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008032C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008033B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008065E	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008077F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008078C	11/14/84	Set Rule 424 sulfur limit for this S. G.	9.80	0.60	0.99	0.00	0.00	0.00	
4008080B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008081F	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008082B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008083B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	
4008084B	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008085D	11/14/84	Set Rule 424 sulfur limit for this S. G.	Cancelled	and replaced by	4008085F	4/08/85		
4008086C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.50	0.00	0.00
4008087C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.50	0.00	0.00
4008088C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008089C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008090C	11/14/84	Set Rule 424 sulfur limit for this S. G.	22.51	0.00	0.00	0.00	0.00	0.00
4008093A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.30	0.00	0.00
4008094A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008095A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008150A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008184C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008185B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008186B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008384G	12/12/84	Mod. TEOR Operation: add 10 wells	0.00	0.00	0.00	0.00	51.64	0.00
4008385G	12/12/84	Mod. TEOR Operation: add 18 wells	0.00	0.00	0.00	0.00	2.34	0.00
4008386G	12/12/84	Mod. TEOR Operation: add 14 wells	0.00	0.00	0.00	0.00	1.82	0.00
4008377	01/03/85	TEOR Operation serving wells	0.00	0.00	156.00	0.00	179.00	0.00
4008225C	05/29/85	Limit steam generator fuel consumption	-6.60	-1.90	-14.20	-28.10	-0.50	-2.30
	05/29/85	Excess Gulf Rule 424 emission reductions		-159.17	-1029.90			
4008318D	06/12/85	Mod. TEOR Operation: add 20 wells	Cancelled	and replaced by	4008318D	8/27/85		
4008384H	06/22/85	Mod. TEOR Operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008314C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008315C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008316C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008317C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00
4008382	06/28/85	TEOR Operation serving 107 S. D. wells	0.00	0.00	0.00	0.00	219.80	0.00
4008031D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008031F	4/08/86		
4008032E	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008033C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008080C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008081G	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008082C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008083C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008084C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00
4008086D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008086F	4/08/86		
4008087D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008087F	4/08/86		
4008088D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008088F	4/08/86		
4008089D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008089F	4/08/86		
4008090D	07/22/85	Revise PM emission sampling limit	Cancelled	and replaced by	4008090F	4/08/86		
4008093B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00
4008094B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00
4008814B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008815B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008816B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008817B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00
4008819	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008820	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008821	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00
4008822	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/15/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
	07/22/85	Excess Rule 424 sulfur compound reductions		-122.74	-1420.35			
4008065D	07/22/85	Retrofit Lo-SOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008070E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008071E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008072E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008073E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008074E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008092B	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00
4008810B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008811B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008812B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008813B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008819A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008820A	07/22/85	Authorize alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008823	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008824	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008825	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008826	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008827	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008828	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008829	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008384H	07/22/85	Modify TEOR operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008378	08/26/85	New TEOR operation # 52 serving 20 wells	0.00	0.00	0.00	0.00	103.62	0.00
4008317F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-81.60	0.00
4008318E	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	69.10	0.00
4008346G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008347D	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-32.80	0.00
4008349G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-244.70	0.00
4008350F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-63.20	0.00
4008351C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-42.60	0.00
4008352C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-26.00	0.00
4008370A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008375A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008093C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008094C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008379	08/30/85	New TEOR operation serving 20 wells	0.00	0.00	0.00	0.00	62.80	0.00
4008213D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008218D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008219D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008220B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008225B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008031E	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008031G 4/08/86					
4008032F	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008033D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008065F	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077H	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008080D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008081H	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008082D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	FR lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day	
4008083D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008084D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008085E	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008085G 4/08/86						
4008091D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008093D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008094D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008095B	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008151B	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008167B	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008167C 4/10/87						
4008168A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008168B 4/10/87						
4008169A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008169B 4/10/87						
4008170A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008170B 4/10/87						
4008171B	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008171C 4/10/87						
4008174A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008174B 4/10/87						
4008175A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008175B 4/10/87						
4008176A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008176B 4/10/87						
4008177B	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008177C 4/10/87						
4008178A	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008178B 4/10/87						
4008184D	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008185C	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008186C	02/05/86	Install H. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008384I	02/20/86	Replace air cooled heat exchanger	0.00	0.00	0.00	0.00	0.00	0.00	
4008070F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008071Y	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008072F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008073F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008074F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008085F	04/08/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00	
4008031G	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008031F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008085G	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008087E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008087F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008088E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008088F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008089E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008089F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008090E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008090F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008451	05/01/86	Tank battery vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00	
4008092C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.30	0.00	
4008151C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008318F	09/15/86	Modify TREOR operation;	0.00	0.00	0.00	0.00	15.24	0.00	
4008347E	09/15/86	Modify TREOR operation;	0.00	0.00	0.00	0.00	138.88	0.00	
4008350G	09/15/86	Modify TREOR operation;	0.00	0.00	0.00	0.00	19.44	0.00	
4008351D	09/15/86	Modify TREOR operation;	0.00	0.00	0.00	0.00	21.44	0.00	
4008319E	09/26/86	Modify TREOR operation; add 23 wells	0.00	0.00	0.00	0.00	62.36	0.00	

60

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008349H	10/27/86	Modify TEOR operation; add 12 wells	0.00	0.00	0.00	0.00	37.66	0.00
4008317H	10/28/86	Modify TEOR operation; add 14 wells	0.00	0.00	0.00	0.00	43.96	0.00
4008352E	10/28/86	Modify TEOR operation; add 11 wells	0.00	0.00	0.00	0.00	34.54	0.00
4008027B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008028B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008031H	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008032G	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008033E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008034E	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.06	0.00	0.00	0.00
4008059C	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008065G	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008066C	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.01	0.00	0.00	0.00
4008069A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008070G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008071G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008072G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008073G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008074G	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008075D	04/10/87	Change S. G. conditions of approval	-21.12	-9.92	-37.43	0.00	0.00	0.00
4008077F	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008078D	04/10/87	Change S. G. conditions of approval	0.00	0.00	23.55	0.00	0.00	0.00
4008079B	04/10/87	Change S. G. conditions of approval	0.00	0.00	8.81	0.00	0.00	0.00
4008080F	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008081I	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008082E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008083E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008084E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008085J	04/10/87	Change S. G. conditions of approval	-10.77	7.92	88.92	0.00	0.00	0.00
4008086G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008087G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008088G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008089G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008090G	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008091H	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008092D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	53.86	0.00	0.00	0.00
4008093E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008094E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008095C	04/10/87	Change S. G. conditions of approval	-11.90	0.00	54.01	0.00	0.00	0.00
4008095B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008097B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008098B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008099B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008100A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008101A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008102B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008150B	04/10/87	Change S. G. conditions of approval	-6.04	0.00	23.55	-54.91	0.00	0.00
4008151D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	20.53	0.00	0.00	0.00
4008167C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.40	30.26
4008168B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26

61

Chevroa U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PH lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CO lbs/day
4008169B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008170B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008171C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008174B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008175B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008176B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008177C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008178B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008179A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.31	0.00	0.00
4008184E	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008185D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008186D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008213E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-55.67	-74.88	-1.25	-6.24
4008214B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-305.28	-74.88	-1.25	-6.24
4008215D	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008216C	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008218E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-78.48	-74.88	-1.25	-6.24
4008219B	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008220C	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008225E	04/10/87	Change S. G. conditions of approval	-27.76	-3.37	-24.55	-62.90	-1.02	-5.24
4008228B	04/10/87	Change S. G. conditions of approval	-34.63	0.58	-34.98	-74.88	-1.68	-6.64
4008233B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008233B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008234B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008235B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008235B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008237B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008238B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008239B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008240B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008241B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008242B	04/10/87	Change S. G. conditions of approval	-36.91	-8.23	-28.51	-117.00	-2.55	-13.00
4008243B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008249B	04/10/87	Change S. G. conditions of approval	-36.79	0.60	-32.18	-74.88	-1.40	-7.10
4008810C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008811C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008812C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008813C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008814B	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008815D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008816D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008817D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008819B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008820B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008821A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008822A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008823A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008824A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008825A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	Flt lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008826A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008827A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008828A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008829A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
	04/10/87	Surrender Permit to Operate # 4008183	-28.23	-11.27	-353.93	-113.66	-1.89	-9.47
	04/10/87	Surrender Permit to Operate # 4008187	-32.04	-12.80	-401.76	-96.77	-2.15	-10.75
4008810D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008812D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008819C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008820C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008821B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008822B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008071I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008072I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008073I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008074I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008092E	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151F	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008071H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008072H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008073H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008074H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008482	05/21/87	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008073H	05/22/87	Mod. S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008810E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008811E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008812E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008813E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008814F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008815F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008816F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008817F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008819D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008820D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008821C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008822C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008823B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008824B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008825B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008826B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008827B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CO lbs/day
4008328B	06/30/87	Chng turbine fl, HC, & CO emission limits	4.24	0.60	0.60	0.60	33.07	-17.77
4008329B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.30	0.00	0.00	33.07	-17.77
4008502	07/28/87	LPG truck unloading rack	0.60	0.00	0.00	0.00	24.12	0.00
4008503	07/28/87	LPG truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008377A	09/29/87	PERC codification; add 18 wells	0.00	0.00	-156.00	0.00	56.52	3.00
4008027C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008028C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	3.00
4008031I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008032H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008033P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008034P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008059D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	3.00	4.30	0.00
4008065H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008066P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008069B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	3.00	0.00	4.25	0.00
4008075E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008077J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	9.00
4008078E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008079C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008080G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008081J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008082P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008083P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008084E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	6.00	8.96	0.00
4008085K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008086I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008087I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008088I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008089I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008090I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008091J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008092G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008093G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	9.96	0.00
4008094G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008095E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008096C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008097C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.30	4.92	0.00
4008098C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008099C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008100B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008101B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008102C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008150C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008151G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008167D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008168D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008170C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008171D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008172A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PH lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008173A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008174C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008175C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.75	0.00
4008176C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008177D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008178C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008179B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008184F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008185E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008186E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008195A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008202B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008203A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008204A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008205A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008206A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008207A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008208A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008213G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008214D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008215F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008216E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008218G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008219G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008220E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008225G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.15	0.00
4008228D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	3.84	0.00
4008232D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008233C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008234C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008235C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008236C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008237C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008238C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008239C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008240C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008241C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008242D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008243D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008249D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008285A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008286A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008289A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008070K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008071K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008072K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008073K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008074K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008075F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	HC lbm/day	CO lbm/day
4008077K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008078P	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091L	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008319P	10/08/87	Modification of existing FEOR operation	0.00	0.00	0.00	0.00	100.48	0.00
Total adjustments from 9/12/79 to 6/22/87 =			-44.21	164.71	-749.62	-3756.58	-1680.51	3025.30

Cherrow U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/73

A to C Co.	Issue Date	Project Description	Fl lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CC lbs/day
4008093P	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095F	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/87	Revise SOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008484		Permit existing unpermitted tank	Denied 5/17/88					
4008485		Permit existing unpermitted tank	Denied 5/17/88					
4008486		Permit existing unpermitted tank	Denied 5/17/88					
4008487		Permit existing unpermitted tank	Denied 5/17/88					
4008488		Permit existing unpermitted tank	Denied 5/17/88					
4008220P	05/23/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008489		Permit existing unpermitted tank	Denied 6/6/88					
4008490		Permit existing unpermitted tank	Denied 6/6/88					
4008491		Permit existing unpermitted tank	Denied 6/6/88					
4008492		Permit existing unpermitted tank	Denied 6/6/88					
4008493		Permit existing unpermitted tank	Denied 6/6/88					
4008494		Permit existing unpermitted tank	Denied 6/6/88					
4008495		Permit existing unpermitted tank	Denied 6/6/88					
4008098D	08/17/88	Add multiple locations for steam gen.	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
400847F	10/19/88	FEOR codification; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4003451A	10/19/88	Tank bat. mod.; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008171E	10/28/88	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008096D	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008213H	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008504	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008505	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008506	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008507	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008508	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008509	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008510	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008511	02/24/89	5,000 bbl capacity PWKO tank # Y-1	0.00	0.00	0.00	0.00	0.84	0.00
4008512	02/24/89	2,000 bbl capacity LACT tank # Y-2	0.00	0.00	0.00	0.00	0.81	0.00
4008513	02/24/89	2,000 bbl capacity reject tank # Y-3	0.00	0.00	0.00	0.00	0.09	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	EC lbs/day	CO lbs/day
4008514	02/24/89	1,000 bbl capacity slop oil tank # T-4	0.00	0.00	0.00	0.00	0.03	0.00
4008515	02/24/89	3,000 bbl capacity waste water tank # T-5	0.00	0.00	0.00	0.00	0.04	0.00
4008516	02/24/89	Heater treater # V-1	0.00	0.00	0.00	0.00	0.00	0.00
4008517	02/24/89	Heater treater # V-2	0.00	0.00	0.00	0.00	0.00	0.00
4008518	02/24/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	12.34	0.00
4008519	03/01/89	5,000 bbl capacity PWKO tank # T-1	0.00	0.00	0.00	0.00	0.18	0.00
4008520	03/01/89	5,000 bbl capacity PWKO tank # T-2	0.00	0.00	0.00	0.00	0.73	0.00
4008521	03/01/89	10,000 bbl capacity wash tank # T-3	0.00	0.00	0.00	0.00	0.00	0.00
4008522	03/01/89	10,000 bbl capacity wash tank # T-4	0.00	0.00	0.00	0.00	0.10	0.00
4008523	03/01/89	2,000 bbl capacity LAGY tank # T-5	0.00	0.00	0.00	0.00	0.86	0.00
4008524	03/01/89	2,000 bbl capacity reject tank # T-6	0.00	0.00	0.00	0.00	0.06	0.00
4008525	03/01/89	1,000 bbl capacity slop oil tank # T-1	0.00	0.00	0.00	0.00	0.06	0.00
4008526	03/01/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	2.43	0.00
4008092H	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008151K	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008171P	03/07/89	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008031K	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008098L	04/08/89	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008384J	07/12/89	TEOR Modification, Add K.O.	0.00	0.00	0.00	0.00	0.23	0.00
4008070L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008071L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008072L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008073L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008074L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	0.00	0.00	0.00	0.00	0.00
4008080H	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008081G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008082G	10/09/89	S.G. Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008317I	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008350H	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008352F	10/09/89	TEOR Modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008091P	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008093I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095F	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008095G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008810G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817G	11/04/89	Modify NOX Offset Requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008377B	01/17/90	TEOR Change Conditions	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PH lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008077L	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008174D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008175D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008176D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008219H	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008220G	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008393E	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008394C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008395C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008396A	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	0.00	0.00	0.00	0.00	0.00
4008837A			Denied 3/15/90					
4008031N	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008085O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008086O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008087O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008088O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008089O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008090O	07/09/90	Reissue of ATC use SG TEOR incineration	0.00	0.00	0.00	0.00	0.00	0.00
4008498	07/09/90	TEOR with 35 Wells	0.00	0.00	0.00	0.00	19.69	0.00
4008218H	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008225H	07/13/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008782A	09/27/90	SG Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008070M	10/08/90	Make Gas Fired only Add PGR	0.00	0.00	0.00	-25.67	0.00	0.00
SSSA for 4008070M			0.00	0.00	0.00	2.57	0.00	0.00
4008071M	10/08/90	Make Gas Fired Only Add PGR	-14.91	-1.29	-19.28	-113.51	0.00	0.00
SSSA for 4008071M			1.49	0.13	1.93	11.35	0.00	0.00
4008072M	10/08/90	Make Gas Fired Only Add PGR	-22.04	-4.85	-30.14	-106.10	0.00	0.00
SSSA for 4008072M			2.20	0.49	3.01	10.61	0.00	0.00
4008073M	10/08/90	Make Gas Fired Only Add PGR	0.00	0.00	0.00	-24.66	0.00	0.00
SSSA for 4008073M			0.00	0.00	0.00	2.47	0.00	0.00
4008074M	10/08/90	Make Gas Fired Only Add PGR	-20.54	-7.68	-8.23	-104.34	0.00	0.00
SSSA for 4008074M			2.05	0.77	0.82	10.43	0.00	0.00
4008032 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008032 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008033 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008065 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 L	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008077 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008080 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 L	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 M	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008081 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00

Chevron J. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	S04 lbm/day	S02 lbm/day	S03 lbm/day	HC lbm/day	CO lbm/day
4003082 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	3.00	0.00	0.00	0.00	0.00
4003082 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003082 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003083 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003083 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003084 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003084 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003089 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003089 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003089 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003089 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003090 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003090 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003090 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003090 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003202 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003202 D	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003203 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003203 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003204 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003204 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003396 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003095 H	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003167 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003168 G	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003169 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003170 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003177 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003178 D	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003242 E	10/19/90	Reissue of Permit, Add BACT	0.00	0.00	0.00	0.00	0.00	0.00
4003531 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4003532 A	10/19/90	Reissue of Permit	0.00	0.00	0.00	0.00	-1.76	0.00
4003001 D	02/27/90	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4003092 I	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-2.67	0.00	0.00
4003151 L	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.26	0.00	0.00
4003171 G	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-51.34	0.00	0.00
4003174 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-10.27	0.00	0.00
4003175 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-54.28	0.00	0.00
4003176 E	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-30.89	0.00	0.00
4003206 B	11/05/90	Make Gas fired only with FGR	0.00	0.00	0.00	-9.53	0.00	0.00
	11/05/90	SSSA for this project is netted out	0.00	0.00	0.00	0.00	0.00	0.00
4003001 D	02/01/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4003032 K	02/14/91		-18.66	-8.83	-19.01	-62.39	0.00	0.00
4003033 I	02/14/91		-12.12	-5.67	-12.98	-42.91	0.00	0.00
4003082 K	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4003083 I	02/14/91		-12.45	-6.06	-13.99	-39.05	0.00	0.00
4003084 I	02/14/91		-12.26	-6.08	-12.83	-46.92	0.00	0.00
4003088 P	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4003195 B	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SC4 lbs/day	SO2 lbs/day	CO2 lbs/day	H2 lbs/day	CO lbs/day
4008285 C	02/14/91		0.00	0.00	0.00	0.00	0.00	0.00
4008286 C	02/14/91		0.00	0.00	3.00	0.00	0.00	0.00
	02/14/91	SSSA for this project	5.55	2.66	5.75	19.13	0.00	0.00
4008511 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	4.25	0.00
4008512 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.39	0.00
4008513 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	1.11	0.00
4008514 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008515 A	02/24/91	Increase Throughput	0.00	0.00	0.00	0.00	3.86	0.00
4008516 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008517 A	02/24/91	Change Operating Conditions	0.00	0.00	0.00	0.00	0.00	0.00
4008518 A	02/24/91	Increase Throughput Recalc	0.00	0.00	0.00	0.00	-11.85	0.00
4008519 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	3.02	0.00
4008520 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	3.02	0.00
4008521 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008522 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	2.52	0.00
4008523 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	0.35	0.00
4008524 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	1.63	0.00
4008525 A	03/01/91	Change operating throughput	0.00	0.00	0.00	0.00	0.01	0.00
4008091 Q	05/22/91	Replace O2 Controller	0.00	0.00	0.00	0.00	0.00	0.00
4008317 J	06/06/91	Add 80 Steam-Drive Wells	0.00	0.00	0.00	0.00	93.97	0.00
4008352 G	06/06/91	Add 80 Steam-Drive Wells	0.00	0.00	0.00	0.00	93.97	0.00
4008835	06/06/91	FEOR Operation Serving 250 Cyclic Wells	0.00	0.00	0.00	0.00	256.00	0.00
4008918	06/12/91	Paint Booth	0.92	0.00	0.00	0.00	20.71	0.00
4008549	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008550	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008551	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008552	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008553	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008554	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008555	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008556	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008557	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008558	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008559	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008560	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008561	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008562	06/19/91	250 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008563	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008564	06/19/91	6600 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008565	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008566	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008567	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008568	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008569	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008570	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008571	06/19/91	10000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008576	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008577	06/19/91	3300 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008578	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	HC lbm/day	CC lbm/day
4008579	06/19/91	5000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008581	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008582	06/19/91	2000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008583	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008584	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008585	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008586	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008587	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008588	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008589	06/19/91	1000 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008590	06/19/91	500 Bbl Sump Replacement Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008530 A	07/17/91	Replace 4008530	0.00	0.00	0.00	0.00	0.00	0.00
4008589 A	08/01/91	Sump Replacement Tank, Increase Capacity	0.00	0.00	0.00	0.00	0.00	0.00
4008027 D	08/21/91	SLC Plan	0					
4008591	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008592	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008593	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008594	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008595	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008596	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008597	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008598	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008599	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
4008600	09/12/91	New 62.5 MMBTU/hr Steam Generator	7.13	0.09	2.99	61.28	3.99	22.80
	09/12/91	Reestablish Hydrocarbon EBC's	0.00	0.00	0.00	0.00	-2726.48	0.00
	09/12/91	Bank Reestablished Hydrocarbon EBC's See 4008317/501 Project 921117	0.00	0.00	0.00	0.00	2726.48	0.00
4008027 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008028 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008031 P	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008032 L	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008033 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008034 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008059 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008065 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008066 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008070 O	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008071 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008072 N	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008073 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008074 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008077 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008080 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008081 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008082 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008083 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008084 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008085 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008086 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CS lbs/day
4008087 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008088 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008089 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008090 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008091 S	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008092 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008093 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008094 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008096 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008097 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008098 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008099 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008102 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008151 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008171 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008174 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008175 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008176 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008184 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008185 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008186 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008195 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008202 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008203 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008204 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008205 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008206 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008207 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008208 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008213 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008214 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008216 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008218 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008219 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008225 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008285 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008286 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008287 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008288 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008391 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008392 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008393 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008394 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008395 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008396 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008810 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008811 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008812 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008813 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	EC lbm/day	C)
4008814 H	03/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008815 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008816 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008817 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008819 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008820 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008821 D	03/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008822 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	0.00	0.00	0.00	0.00	0.00
4008880 L	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008881 P	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008882 L	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008885 I	10/22/91	Modify operating condition	0.00	0.00	0.00	0.00	0.00	0.00
4008549 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.04	0.00
4008550 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.04	0.00
4008551 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.02	0.00
4008552 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.13	0.00
4008553 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008554 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008555 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	2.16	0.00
4008556 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.15	0.00
4008557 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.12	0.00
4008558 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.22	0.00
4008558 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.22	0.00
4008559 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008560 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008561 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008562 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.21	0.00
4008563 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.03	0.00
4008564 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	0.03	0.00
4008565 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	1.00	0.00
4008566 A	10/22/91	Increase FVP Allowed	0.00	0.00	0.00	0.00	1.00	0.00
4008601	10/22/91	Tankage vapor control system	0.00	0.00	0.00	0.00	0.00	0.00
4008602	10/22/91	WENCO	0.00	0.00	0.00	0.00	1.00	0.00
4008603	10/22/91	WENCO	0.00	0.00	0.00	0.00	1.00	0.00
4008604	10/22/91	WENCO	0.00	0.00	0.00	0.00	1.00	0.00
4008605	10/22/91	Tank	0.00	0.00	0.00	0.00	0.10	0.00
4008606	10/22/91	Tank	0.00	0.00	0.00	0.00	0.04	0.00
4224001 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	124.47	0.00
4224002 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224003 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224004 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224005 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224006 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.02	0.00
4224007 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.02	0.00
4224008 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.04	0.00
4224009 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	2.16	0.00
4224011 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.46	0.00
4224012 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.00	0.00
4224013 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.03	0.00

Chevron C. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4224014 A	10/22/91	Increase FVP allowed	0.00	0.00	0.00	0.00	0.03	0.00
4008027 F	10/22/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008027 G	10/28/91	Add Location	0.00	0.00	0.00	0.00	0.00	0.00
4008346 H	01/21/92	Modify Incinerator	Cancelled					
4008785 A	03/18/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008070 P	03/20/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008073 O	03/20/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008451 B	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008211 A	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008212 A	03/20/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008070 P	03/20/92	S.G. Modification	0.00	0.00	0.00	0.00	0.00	0.00
4008073 O	03/20/92	S.G. Modification	0.00	0.00	0.00	0.00	0.00	0.00
4008451 B	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224211 A	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224212 A	03/20/92	Tank Modification	0.00	0.00	0.00	0.00	0.00	0.00
4224220 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224270 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224289 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224344 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224392 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224401 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4224607 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	0.00	0.00	0.00	0.00	0.00
4008569 A	05/06/92	C of L Tank	Cancelled					
4008805 A	05/20/92	T of L Soda Ash Receiving	0.00	0.00	0.00	0.00	0.00	0.00
4224288 A	05/26/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4224289 A	05/26/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4224251 A	06/04/92	T of L Storage Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008319 G	06/09/92	Combine 3 FEOR Sytems	0.00	0.00	0.00	0.00	0.00	0.00
4008171 J	06/10/92	Modify S.G. Share Scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008218 J	06/10/92	Modify S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008349 J	06/10/92	Modify FEOR	0.00	0.00	0.00	0.00	0.00	0.00
4008511 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008512 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008513 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008514 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008515 B	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008516 B	06/10/92	Modify Heat treater	0.00	0.00	0.00	0.00	0.00	0.00
4008517 B	06/10/92	Modify Heat Treater	0.00	0.00	0.00	0.00	0.00	0.00
4008518 B	06/10/92	WENCO	0.00	0.00	0.00	0.00	0.00	0.00
4008546 A	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008547 A	06/10/92	Modify Tank	0.00	0.00	0.00	0.00	0.00	0.00
4008999 P	08/11/92	Renewal	0.00	0.00	0.00	0.00	0.00	0.00
4008499 A	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008499 B	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
4008499 C	11/17/92	T of L S.G.	0.00	0.00	0.00	0.00	0.00	0.00
S-0038-1	09/27/93	Re-establish credit for 4008317B issued on 05/19/80 above						
S-0056-1	09/27/93	Re-establish credit for 4008318A issued on 05/19/80 above						
S-0057-1	09/27/93	Re-establish credit for 4008319B issued on 05/19/80 above						
S-0058-1	09/27/93	Re-establish credit for 4008350A issued on 05/19/80 above						

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C Co.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
S-0053-1	09/27/93	Re-establish credit for 4008349C issued on 05/19/80 above						
S-0053-1	09/27/93	Re-establish credit for 4008345A issued on 05/19/80 above						
S-0061-1	09/27/93	Re-establish credit for 4008346B issued on 05/19/80 above						
S-0052-1	03/27/93	Re-establish credit for 4008347B issued on 05/19/80 above						
S-0053-1	09/27/93	Re-establish credit for 4008349C issued on 05/19/80 above						
	03/27/93	Adjustment required by surplus test - see evaluation of project # 92222E						-551.20
Total adjustments since 9/12/79			-29.5	129.2	-823.7	-63.9	150.0	3254.3

BRC'S Resulting From Shutdown of Equipment

204135/501	07/28/92	Shutdown of 8 I.C. engine compressors (4 Qtrs)						147
4008415/50	07/28/92	Shutdown of tanks and truck loadout (4 Qtrs)						19

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008052B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008056B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109C	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008121B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008122B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008123B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008124B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008125B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008041B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008046B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008109D	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
		PM emission increase offset with road paving						
4008127A	02/21/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008301A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-165.00	0.00
4008302B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-374.40	0.00
S-0037-1	09/27/93	Re-establish Emission Reduction Credits for 4008302B					336.18	
4008303B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-715.00	0.00
S-0037-1	09/27/93	Re-establish Emission Reduction Credits for 4008303B					645.47	
4008304A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-344.50	0.00
4008305B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-195.00	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008305B					174.81	
4008306B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-390.00	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008306B					349.63	
4008307A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-135.00	0.00
4008308B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-510.00	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008308B					457.00	
4008309C	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-585.00	0.00
4008310B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-208.80	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008310B					201.71	
4008311A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-418.90	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008311A					376.52	
4008313B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-877.50	0.00
S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008313B					779.94	
4008315A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-222.00	0.00
S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008315A					174.81	
4008316B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-463.50	0.00
S-0066-1	09/27/93	Re-establish Emission Reduction Credits for 4008316B					376.52	
4008322B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-460.30	0.00
S-0067-1	09/27/93	Re-establish Emission Reduction Credits for 4008322B					416.86	
4008323A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-598.00	0.00
S-0067-1	09/27/93	Re-establish Emission Reduction Credits for 4008323A					537.89	
4008324B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-249.20	0.00
4008325A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-432.50	0.00
S-0068-1	09/27/93	Re-establish Emission Reduction Credits for 4008325A					389.97	
4008326A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-75.00	0.00
4008327A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-45.00	0.00
S-0068-1	09/27/93	Re-establish Emission Reduction Credits for 4008327A					40.34	
4008328B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-80.90	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008329B	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-85.60	0.50
S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008329B					80.68	
4008330B	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-40.40	0.00
S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008330B					40.40	
4008331A	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-131.40	0.00
S-0064-1	09/27/93	Re-establish Emission Reduction Credits for 4008331A					107.58	
4008333A	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-255.00	0.00
S-0065-1	09/27/93	Re-establish Emission Reduction Credits for 4008333A					228.60	
4008334A/B	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	600.00	0.00
4008335A/B	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	300.00	0.00
4008320A	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-225.00	0.00
4008340A	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-240.00	0.00
4008341A	05/19/80	Modify FBOE operation control efficiency	0.00	0.00	0.00	0.00	-690.00	0.00
4008146	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008146B 2/20/86					
4008147	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008147A 2/20/86					
4008148	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008148A 2/20/86					
4008149	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008149B & C 2/20/86					
4008152	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008152A 2/20/86					
4008153	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008153A 2/20/86					
4008154	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008154A 2/20/86					
4008155	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008155A 2/20/86					
4008156	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008156A 2/20/86					
4008157	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008157A 2/20/86					
4008158	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008158B 6/19/86					
4008159	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008159B/C 6/19/86					
4008160	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008160A 6/19/86					
4008161	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008161A 6/19/86					
4008162	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008162A 6/19/86					
4008163	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008163A 6/19/86					
4008164	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008164A 6/19/86					
4008165	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008165A 6/19/86					
4008166	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008166A 6/19/86					
4008180	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008180A 6/19/86					
4008181	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008181A 6/19/86					
4008146A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008149A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008159A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008360	05/19/80	FBOE operation	0.00	0.00	0.00	0.00	18.79	0.00
4008361	05/19/80	FBOE operation	0.00	0.00	0.00	0.00	25.08	0.00
4008362	05/19/80	FBOE operation	0.00	0.00	0.00	0.00	24.48	0.00
4008332A	05/19/80	Modify FBOE operation	Cancelled and replaced by 4008332B 9/26/83					
4008364	05/19/80	FBOE operation	Cancelled and replaced by 4008364A 9/26/83					
4008365	05/19/80	FBOE operation	Cancelled and replaced by 4008332B 9/26/83					
4008366	05/19/80	FBOE operation	Cancelled and replaced by 4008364A 9/26/83					
4008367	05/19/80	FBOE operation	0.00	0.00	0.00	0.00	21.13	0.00
4008017B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-36.00	0.00	0.00
4008018A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008019A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008020A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PR lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008021A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008022A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008023A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008024B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008025A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008037C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008038A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008039A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008040A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008041C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008042A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008043A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008044A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008045A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008046C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008047B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008048B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008049A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008050A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008051A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008052C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008055C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008061A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008062A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008103A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008104A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008105A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008109E	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008113A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008114A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008115A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008116A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008117A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008121C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008122C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008123C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008124C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008125C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008128A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008129A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008221A	09/16/80	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008224A	09/16/80	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008302C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008313D	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008316C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008323B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008331B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008211A	11/14/80	Scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	Flt lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	HC lbm/day	CO lbm/day
4008129B	01/15/81	Lo-NOx staged combustion burner	0.00	0.00	0.00	0.00	0.00	0.00
4008018B	01/23/81	Experimental reverse jet scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008303C	02/12/81	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325C	02/12/81	Modify TEOR operation; add 2 wells	0.00	0.00	0.00	0.00	5.00	0.00
4008331C	02/12/81	Modify TEOR operation; add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00
4008310C	02/13/81	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008001A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-63.90	0.00	0.00
4008002A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008003A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008004A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008005A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008006A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008007A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008008A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008009A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008010A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-59.93	0.00	0.00
4008011A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008012A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008013A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008014A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008015A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008016A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008018C	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008029A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008030A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008033A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008034A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008035A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008037A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008038A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008039A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008060A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008063A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008139A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008140A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008141A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008142A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008143A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008144A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008145A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008326B	02/17/81	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008015A	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008041D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008046D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109E	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008114B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008115B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008211B	03/11/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	FM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CC lbs/day	
4008124C	03/04/82	Replacement steam generator	0.03	0.00	0.00	0.00	0.00	0.00	
4008125D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008128B	08/12/82	Exp. Lo-COX staged combustion burner	0.03	0.00	0.00	0.00	0.00	0.00	
4008438	10/07/82	Rail car coal unloading operation	52.40	0.00	0.00	0.00	0.00	0.00	
4008439	10/07/82	Coal transfer and storage operation	Does not operate when 4008438 is operating						
4008440	10/07/82	Limestone receiving and storage	0.27	0.00	0.00	0.00	0.00	0.00	
4008441	10/07/82	Coal fired steam generator	79.20	0.00	132.00	429.60	62.40	400.80	
4008442	10/07/82	Ash handling and disposal	2.00	0.00	0.00	0.00	0.00	0.00	
4008013B	01/18/83	Multiple locations for SG	0.60	0.00	449.90	0.00	0.10	0.20	
4008189A	01/18/83	62.5 MM BPU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
4008190A	01/18/83	62.5 MM BPU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
	01/18/83	Surrender P to O # 4008005	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to O # 4008010	-43.00	-8.10	-47.70	-184.32	-3.10	-15.40	
	01/18/83	Surrender P to O # 4008030	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to O # 4008060	-39.40	-7.40	-43.70	-168.96	-2.80	-14.10	
4008007B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008007C 11/26/84						
4008037F	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008037G 11/26/84						
4008038C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008038D 11/26/84						
4008039C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008039D 11/26/84						
4008040C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008040D 11/26/84						
4008063B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008063C 11/26/84						
4008117B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008117C 11/26/84						
4008332B	09/26/83	Mod. FEOB operation; consolidate systems	0.00	0.00	0.00	0.00	-264.40	0.00	
4008364A	09/26/83	Mod. FEOB operation; consolidate systems	A to C surrendered by applicant 8/29/85						
4008334C	10/07/83	Modify FEOB operation; add incinerator	0.00	0.00	0.00	0.00	-882.10	0.00	
4008335C	10/07/83	Modify FEOB operation; add incinerator	0.00	0.00	0.00	0.00	-470.40	0.00	
4008303D	04/03/84	Modify FEOB operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008311C	04/03/84	Modify FEOB operation; add wells	0.00	0.00	0.00	0.00	6.30	0.00	
4008320A	04/03/84	Modify FEOB operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008322E	04/03/84	Modify FEOB operation; add wells	0.00	0.00	0.00	0.00	6.90	0.00	
4008330C	04/03/84	Modify FEOB operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00	
4008305C	04/30/84	Modify FEOB operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008306C	04/30/84	Modify FEOB operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008308C	04/30/84	Modify FEOB operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008315B	04/30/84	Modify FEOB operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008316E	04/30/84	Modify FEOB operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008443	05/11/84	3,000 bbl wash tank	0.00	0.00	0.00	0.00	12.90	0.00	
4008444	05/11/84	5,000 bbl wash tank	0.00	0.00	0.00	0.00	13.80	0.00	
4008323C	06/08/84	Modify FEOB operation	0.00	0.00	0.00	0.00	18.84	0.00	
4008325E	06/08/84	Modify FEOB operation	0.00	0.00	0.00	0.00	3.14	0.00	
4008304B	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008304C 5/14/85						
4008307B	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008307C 5/14/85						
4008308D	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008308E 5/14/85						
4008309D	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008309E 5/14/85						
4008310D	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008310E 5/14/85						
4008311D	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008311E 5/14/85						
4008333B	08/27/84	Modify FEOB operation	Cancelled and replaced by 4008333C 5/14/85						
4008331D	10/08/84	Modify FEOB operation; add 1 well	0.00	0.00	0.00	0.00	3.14	0.00	
4008002D	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008024C	10/29/84	Revise scrubber eff. & emission limits	35.79	1.00	13.10	36.30	0.80	3.99
4008025C	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008049B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008050B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.30	0.00	0.00	0.00	0.00
4008051B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008055B	10/29/84	Revise scrubber eff. & emission limits	-15.75	0.00	0.00	0.00	0.00	0.00
4008057B	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00
4008061B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008062B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008103B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008104B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008105B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008116D	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008127B	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008140B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008141B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008142B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008143B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008144B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008145B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008189B	10/29/84	Revise scrubber eff. & emission limits	-13.42	0.00	0.00	0.00	0.00	0.00
4008190B	10/29/84	Revise scrubber eff. & emission limits	-13.42	0.00	0.00	0.00	0.00	0.00
4008340B	10/29/84	Modify FBOB Operation	0.00	0.00	0.00	0.00	-12.50	0.00
4008341B	10/29/84	Modify FBOB Operation	0.00	0.00	0.00	0.00	-32.50	0.00
	10/29/84	Surrender P to O # 4008011	-39.38	-15.47	-485.74	-168.96	-2.81	-14.06
	10/29/84	Surrender P to O # 4008058	-32.40	-11.29	-45.59	-168.96	-2.93	-14.67
	10/29/84	Surrender A to C # 4008339	0.00	0.00	0.00	0.00	-37.50	0.00
4008002E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008007C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008014B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008017C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008018D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008019B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008020B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008021B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008022B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008023B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008024D/E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008037C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008038D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008039D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008040D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008041E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008044B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008045B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008046E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 5/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008047B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008048B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008049C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008050C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008051C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008052D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008053B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008055C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008056D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008057C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008061C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008062C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008063C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008103C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008104C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008109G	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008113B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008114C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008115C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008116C/D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008117C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008121B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008122E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008123E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008124E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008125E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008129B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008139B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008140C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008141C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008142C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008143C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008144C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
4008145C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00
	11/26/84	Surrender A to C # 4008339A	0.00	0.00	0.00	0.00	-37.50	0.00
4008313F	11/30/84	Modify FBOB operation	Cancelled and replaced by A to C # 4008313G 3/20/85					
4008315C	11/30/84	Modify FBOB operation	Cancelled and replaced by A to C # 4008315D 3/20/85					
4008316F	11/30/84	Modify FBOB operation	Cancelled and replaced by A to C # 4008316G 3/20/85					
4008325F	11/30/84	Modify FBOB operation	Cancelled and replaced by A to C # 4008325P 3/20/85					
4008326C	11/30/84	Modify FBOB operation	Cancelled and replaced by A to C # 4008326D 3/20/85					
	11/30/84	Surrender A to C # 4008327A	0.00	0.00	0.00	0.00	-7.50	0.00
4008025D	01/04/85	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008313G	03/29/85	Modify FBOB operation	0.00	0.00	0.00	0.00	361.10	0.00
4008315D	03/29/85	Modify FBOB operation	0.00	0.00	0.00	0.00	69.10	0.00
4008316G	03/29/85	Modify FBOB operation	0.00	0.00	0.00	0.00	207.20	0.00
4008325G	03/29/85	Modify FBOB operation	0.00	0.00	0.00	0.00	194.70	0.00
4008326D	03/29/85	Modify FBOB operation	0.00	0.00	0.00	0.00	69.10	0.00
4008304C	05/14/85	Modify FBOB operation	0.00	0.00	0.00	0.00	100.50	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO ₄ lbs/day	SO ₂ lbs/day	CO ₂ lbs/day	HC lbs/day	CO lbs/day
4008307C	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	94.20	0.00
4008308E	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	141.50	0.00
4008309E	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	270.10	0.00
4008310E	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	59.30	3.00
4008311E	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	125.60	0.00
4008333C	05/14/85	Modify TEOB operation	0.00	0.00	0.00	0.00	72.20	0.00
4008301B	06/28/85	Modify TEOB operation	0.00	0.00	0.00	0.00	133.60	0.00
4008331E	06/28/85	Modify TEOB operation	0.00	0.00	0.00	0.00	70.60	0.00
4008381	06/28/85	New TEOB operation	0.00	0.00	0.00	0.00	147.50	0.00
	06/28/85	Surrender P to O # 4008328	0.00	0.00	0.00	0.00	-20.00	0.00
	06/28/85	Surrender P to O # 4008329	0.00	0.00	0.00	0.00	-20.00	0.00
	06/28/85	Surrender P to O # 4008330	0.00	0.00	0.00	0.00	-10.00	0.00
	06/28/85	Surrender A to C # 4008328B	0.00	0.00	0.00	0.00	-67.50	0.00
	06/28/85	Surrender A to C # 4008329B	0.00	0.00	0.00	0.00	-85.00	0.00
	06/28/85	Surrender A to C # 4008330B	0.00	0.00	0.00	0.00	-60.00	0.00
4008322F	06/28/85	Modify TEOB operation	0.00	0.00	0.00	0.00	131.10	3.00
4008323D	06/28/85	Modify TEOB operation	0.00	0.00	0.00	0.00	260.40	0.00
4008303E	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	0.00	0.00
4008332C	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	-39.00	0.00
4008334D	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	-78.00	0.00
4008335D	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	-52.50	0.00
4008340C	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	0.00	0.00
4008341C	08/13/85	Modify TEOB operation	0.00	0.00	0.00	0.00	9.40	0.00
4008435A	09/27/85	Modify tank battery	0.00	0.00	0.00	0.00	0.00	0.00
4008003B	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008004B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-21.12	0.00	0.00
4008006D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00
4008007D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-15.48	0.00	0.00
4008008B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008009B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008012B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008013C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008014C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008016B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008017E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008018F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008019C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008020C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008021C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008022C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008023C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008024F	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008025E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008037H	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008038E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008039E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008040E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008041G	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008042C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C Ho.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008043C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008044C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008045C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008046F	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008047C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008048C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008049D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008050D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008051D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008052E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008053C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008054B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008055D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00	
4008056E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008061D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008062D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008063D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00	
4008103D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008014D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008105D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008109H	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008113C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008114D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008115E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008116E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008117E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00	
4008121F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008122F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008123F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008124F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008125F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00	
4008127C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85						
4008128C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00	
4008129C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00	
4008211C	01/10/86	Revise approved emission limits	-13.47	-7.02	-49.02	-27.23	0.00	0.00	
4008217B	01/10/86	Revise approved emission limits	-18.67	-9.82	-68.38	-37.65	0.00	0.00	
4008221B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-45.36	0.00	0.00	
4008222C	01/10/86	Revise approved emission limits	-22.28	-3.68	-66.60	-45.36	0.00	0.00	
4008223B	01/10/86	Revise approved emission limits	-22.28	-3.68	-7.40	-45.36	0.00	0.00	
4008224B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-13.50	0.00	0.00	
4008441A	01/10/86	Revise approved emission limits	4.95	3.26	-85.08	-64.95	-60.70	-392.30	
	01/10/86	Surrender P to O 4008255	-0.29	0.00	-0.04	-132.02	-1.34	-18.11	
	01/10/86	Surrender P to O 4008256	-0.29	0.00	-0.04	-132.02	-1.34	-18.11	
4008002F	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.22	0.00	0.00	0.00	
4008006E	02/20/86	Revise existing S. G. emission limits	Withdrawn by applicant during processing						
4008007E	02/20/86	Revise existing S. G. emission limits	-0.61	-4.64	4.08	0.00	0.00	0.00	
4008012C/D	02/20/86	Revise existing S. G. emission limits	-13.66	-4.26	-401.09	0.00	0.00	0.00	
4008014D	02/20/86	Revise existing S. G. emission limits	-14.06	-4.26	0.41	0.00	0.00	0.00	
4008015D	02/20/86	Revise existing S. G. emission limits	-13.75	-4.26	-4.05	0.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	CO2 lbm/day	HC lbm/day	CO lbm/day
4008029B	02/20/86	Revise existing S. G. emission limits	-17.00	-4.65	-437.69	0.00	0.00	0.00
4008037I	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008038J	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008039F	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008040P	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008041H	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008042D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008043D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008044D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008045D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008046G	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008047D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008048D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008049E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008050E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008051E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008052F	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008053D	02/20/86	Revise existing S. G. emission limits	-15.50	-4.65	0.44	0.00	0.00	0.00
4008056P	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008057D	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.42	0.00	0.00	0.00
4008061E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008062E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008063E	02/20/86	Revise existing S. G. emission limits	-3.37	-5.07	4.51	0.00	0.00	0.00
4008103E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008104E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008105E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008109I	02/20/86	Revise existing S. G. emission limits	-5.37	-10.56	-10.05	0.00	0.00	0.00
4008113D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	4.54	0.00	0.00	0.00
4008114E	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	5.66	0.00	0.00	0.00
4008115P	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	-6.01	0.00	0.00	0.00
4008116P	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008117P	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008121G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008122G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008123G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008124G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008125G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008128D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008129D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008146B	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008147A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008148A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008149B/C	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008152A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008153A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008154A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008155A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008156A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008157A	02/20/86	62.5 MM B7U/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	Fl lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008158A	02/20/86	Revise scrubber conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008265	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008266	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008267	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008268	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008269	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008332D	05/07/86	Modify TEOR operation 27-CC-1	0.00	0.00	0.00	0.00	0.00	0.00
4008017D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008018E	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008019D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008020D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008021D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008022D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008023D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008024G	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008025P	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008053D	06/19/86	Revise steam generator cond. of approval	-1.53	0.00	0.00	0.00	0.00	0.00
4008055E	06/19/86	Revise steam generator cond. of approval	-1.20	0.00	-2.60	0.00	0.00	0.00
4008127C	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008140D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008141D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008142D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008143D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008144D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008145D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008159B	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Revise flue gas scrubber cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008160A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008161A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008162A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008163A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008164A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008165A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008166A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008190C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008017P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008018G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008019E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008020E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008021E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008022E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008023E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008024H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008025G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008041I	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008042E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008043E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008044E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 3/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008045E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008046H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008047E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008048E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008049F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008050P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008051F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008052G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008056G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008061F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008062F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008103P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008104F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008105P	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008109J	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008113E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008114F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008115G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008116G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008117G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008121H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008122H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008123H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008124H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008125H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008127D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008139C	06/19/86	Revise SG authorized emission limits	22.10	0.00	-1.73	-96.00	0.00	0.00
4008140E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008141E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008142E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008143E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008144E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008145E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008146C	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008147B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008148B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008149D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008152B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008153B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008154B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008155B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008156B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008157B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008158B	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00
4008159D	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008160B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008161B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008162B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	PK lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	EC lbs/day	CO lbs/day
4008163B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008164B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008165B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008166B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008180A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008181A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008190D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008191A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008192A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008193A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008194A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008217C	06/19/86	Revise op. cond. from 100/75 to 80/80	-4.66	-1.47	-4.56	-26.16	-0.53	-2.64
4008221C	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-61.78	-1.27	-6.36
4008222D	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-10.69	-61.78	-1.27	-6.36
4008224B	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-70.98	-1.27	-6.36
4008263	06/19/86	62.5 MW BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00
4008264	06/19/86	62.5 MW BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00
4008270	06/19/86	22.3 MW cogeneration system w/duct burner	98.78	15.14	15.14	1470.00	280.09	254.02
4008271	06/19/86	22.3 MW cogeneration system w/duct burner	98.78	15.14	15.14	1470.00	280.09	254.02
4008273	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008274	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008275	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008276	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008277	06/19/86	62.5 MW BTU/hr gas fired steam generator	5.00	0.00	2.86	144.00	2.80	35.00
4008278	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008279	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008280	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
4008281	06/19/86	2.80 MW cogeneration system w/duct burner	27.55	3.20	3.20	529.84	24.35	129.68
	06/19/86	Surrender Authority to Construct # 4008132	-12.07	-1.84	-150.37	-51.61	-0.83	-4.15
	06/19/86	Surrender Authority to Construct # 4008133	-12.07	-1.84	-150.37	-51.61	-0.83	-4.15
	06/19/86	Surrender Permit to Operate # 4008223	-38.07	-19.89	-37.00	-213.84	-4.40	-22.02
	06/19/86	Surrender Authority to Construct # 4008244	-40.18	-13.61	-133.49	-259.20	-4.32	-21.60
	06/19/86	Surrender Authority to Construct # 4008245	-59.18	-23.11	-127.15	-259.20	-4.32	-21.60
	06/19/86	Surrender Authority to Construct # 4008246	-8.29	-3.24	-101.60	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008247	-8.29	-3.24	-101.60	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008248	-4.15	-1.62	-50.80	-23.89	-0.30	-1.51
	06/19/86	Surrender Authority to Construct # 4008250	-5.62	-1.91	-59.82	-47.78	-0.60	-3.02
	06/19/86	Surrender Authority to Construct # 4008251	-5.62	-1.91	-59.82	-47.78	-0.60	-3.02
4008324D	06/23/86	Modify FBOB Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008335E	06/23/86	Modify FBOB Operation; delete 2 wells	0.00	0.00	0.00	0.00	-6.28	0.00
4008340D	06/23/86	Modify FBOB Operation; add 1 wells	0.00	0.00	0.00	0.00	3.14	0.00
4008341D	06/23/86	Modify FBOB Operation; add 4 wells	0.00	0.00	0.00	0.00	12.56	0.00
4008302D	06/26/86	Modify FBOB Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008303F	06/26/86	Modify FBOB Operation;	0.00	0.00	0.00	0.00	0.00	0.00
4008305D	06/26/86	Modify FBOB Operation; add 2 wells	0.00	0.00	0.00	0.00	6.28	0.00
4008306D	06/26/86	Modify FBOB Operation; add 4 wells	0.00	0.00	0.00	0.00	12.56	0.00
4008024I	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008140F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C Co.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008141F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008142F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008143F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008144F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008145F	08/01/86	Revise steam generator HC emission limits	0.00	0.00	0.00	0.00	8.96	0.00
4008341B	08/01/86	Modify TEOR Operation; add 23 wells	0.00	0.00	0.00	0.00	63.90	0.00
4008361A	09/16/86	Combine three TEOR operations	0.00	0.00	0.00	0.00	-51.20	0.00
4008445	09/24/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008447	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008448	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008449	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008450	10/10/86	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008006F	11/25/86	Increase fuel S % from 1.1% to 1.2%	2.82	1.40	3.99	0.00	0.00	0.00
4008016C	11/25/86	Increase fuel S % from 1.1% to 1.2%	2.82	1.40	44.21	0.00	0.00	0.00
4008302E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008303G	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008305E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008306E	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008305H	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008150B	04/08/87	Change steam generator ESL's	-6.04	0.00	23.55	-54.91	0.00	0.00
4008046I	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008047G	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008048G	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008052H	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008056H	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008001B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	5.01	0.00
4008002G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008003C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008004C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008006B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008007F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008008C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008009C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008012E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008013D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008014E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008015F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008016D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008017H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008018I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008019F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008020F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008021F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008022F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008023F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008025H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	6.96	0.00
4008029C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008037J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008038K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	Fil lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008039G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008040G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008041J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008042F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008043F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008044F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008045F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008049G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008050G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008051G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008053F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008054C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008055P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.30	4.25	0.00
4008057E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008061G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008062G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008063P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008103G	09/29/87	Change steam generator HC ESL's	0.00	0.30	0.00	0.00	8.96	0.00
4008104G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008105G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008109K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008113P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008114G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008115H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008116H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008117H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008121I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008122I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.30
4008123I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008124I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008125I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008127F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008128E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008129E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008139E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008146P	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008147D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008148D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008149E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008152C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008153C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008154C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008155C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008156C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008157C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.30
4008158C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008159E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008160C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008161C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C Co.	Issue Date	Project Description	EM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CO lbs/day
4008162C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008163C	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008164C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008165C	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008166C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008180B	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008181B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008189E	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008190E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008191C	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008192C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008193C	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008194C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008211D	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008217D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008221D	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008222E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008224D	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008263A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008264A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008265A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008266A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008267A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008268A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008269A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008273A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008274A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008275A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008276A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008277A	09/29/87	Change steam generator EC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008024J	11/04/87	Modify SO2 monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
Total adjustments from 9/12/79 to 6/22/87 =			93.05	137.06	-2541.33	-1697.61	-719.62	2654.17

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008128F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008129F	12/16/87	Revise cogen COx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008139F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008140G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008141G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008142G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008143G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008144G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008145G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008146G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008147E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008148E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008149F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008152D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008153D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008154D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008155D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008156D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008157D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008159F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008160D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008161D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008162D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008163D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008164D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008165D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008166D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008189F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008190F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008313H	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008315E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008316H	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008325H	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008326E	02/12/88	TEOR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008301C	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008304D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008305F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008306F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008307D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008308F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008309F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008310F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008311F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008313I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008315F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008316I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008322G	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008323E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008324E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00

96

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	CO2 lbs/day	EC lbs/day	CO lbs/day
4008325I	09/29/88	TEOR codifications	0.00	0.00	0.00	0.00	0.00	0.00
4008326F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008331F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008333D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008381A	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008436	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008019H	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008116J	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008334E	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00
4008335F	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00
4008019H	11/28/88	γ of L	0.00	0.00	0.00	0.00	0.00	0.00
4008116J	11/28/88	γ of L	0.00	0.00	0.00	0.00	0.00	0.00
4008211E	03/27/90	γ of L	0.00	0.00	0.00	0.00	0.00	0.00
4008217E	03/27/90	γ of L	0.00	0.00	0.00	0.00	0.00	0.00
4008025J	09/04/90	Gas fire w/PGR on existing SG	-16.64	-3.86	-17.49	-66.20	0.00	0.00
4008039I	09/04/90	Gas fire w/PGR on existing SG	-11.54	-3.38	-22.03	-38.02	0.00	0.00
4008040I	09/04/90	Gas fire w/PGR on existing SG	-6.41	-0.90	-15.54	-12.86	0.00	0.00
4008046K	09/04/90	Gas fire w/PGR on existing SG	-23.37	-6.03	-36.12	-98.00	0.00	0.00
4008047I	09/04/90	Gas fire w/PGR on existing SG	-23.28	-6.00	-36.01	-97.58	0.00	0.00
4008048I	09/04/90	Gas fire w/PGR on existing SG	-23.82	-6.21	-36.68	-100.26	0.00	0.00
4008052J	09/04/90	Gas fire w/PGR on existing SG	-21.52	-5.31	-33.83	-88.83	0.00	0.00
4008056J	09/04/90	Gas fire w/PGR on existing SG	-26.48	-7.24	-39.97	-113.45	0.00	0.00
4008117J	09/04/90	Gas fire w/PGR on existing SG	-14.18	-4.66	-25.37	-50.96	0.00	0.00
4008127H	09/04/90	Gas fire w/PGR on existing SG	-10.83	-1.50	-12.59	-37.06	0.00	0.00
4008189G	09/04/90	Gas fire w/PGR on existing SG	-18.07	-4.45	-18.70	-73.42	0.00	0.00
4008190G	09/04/90	Gas fire w/PGR on existing SG	-20.17	-5.30	-20.47	-83.95	0.00	0.00
		SSSA adjustment for prev. 12 ATC's	21.63	5.49	31.48	86.06	0.00	0.00
4008022I	10/08/90	Transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008144H	10/08/90	Transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008017J	12/04/90	Gas fire w/PGR on existing SG	-16.86	0.00	-10.25	-85.28	0.00	0.00
		SSSA adjustments for 4008017J	1.69	0.00	1.03	8.53	0.00	0.00
4008018K	12/04/90	Gas fire w/PGR on existing SG	-14.10	0.00	-8.69	-68.08	0.00	0.00
		SSSA adjustments for 4008018K	1.41	0.00	0.87	6.81	0.00	0.00
4008019I	12/04/90	Gas fire w/PGR on existing SG	-16.35	0.00	-9.96	-82.39	0.00	0.00
		SSSA adjustments for 4008019I	1.63	0.00	1.00	8.24	0.00	0.00
4008020H	12/04/90	Gas fire w/PGR on existing SG	-6.59	0.00	-4.47	-25.21	0.00	0.00
		SSSA adjustments for 4008020H	0.66	0.00	0.45	2.52	0.00	0.00
4008021H	12/04/90	Gas fire w/PGR on existing SG	-10.28	0.00	-6.65	-47.74	0.00	0.00
		SSSA adjustments for 4008021H	1.03	0.00	0.66	4.77	0.00	0.00
4008022H	12/04/90	Gas fire w/PGR on existing SG	-10.53	0.00	-6.69	-47.69	0.00	0.00
		SSSA adjustments for 4008022H	1.05	0.00	0.67	4.77	0.00	0.00
4008023H	12/04/90	Gas fire w/PGR on existing SG	-10.57	0.00	-6.71	-49.35	0.00	0.00
		SSSA adjustments for 4008023H	1.06	0.00	0.67	4.94	0.00	0.00
4008001D	02/01/91	Add/delete location on PTO	0.00	0.00	0.00	0.00	0.00	0.00
4008001E		Add SLC for Rule 210.1 Compliance Plan	Canceled by 4008001F 8/21/91					
4008001F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008002E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008003D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00

98A

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	F1 lbs/day	S04 lbs/day	S02 lbs/day	CO2 lbs/day	HC lbs/day	CO lbs/day
4008094D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008096H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008097G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008098D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008099D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008012F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008013E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008014F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008015G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008016E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008017K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008018L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008019J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008020I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008021I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008022J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008023I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008024L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008025K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008029E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008037E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008038H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008039J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008040J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008041L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008042H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008043H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008044H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008045H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008046L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008047J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008048J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008049I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008050I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008051I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008052K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008053G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008054D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008055G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008056K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008057P	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008061I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008062I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008063G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008103I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008104I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008105I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008109H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008113H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbs/day	SO4 lbs/day	SO2 lbs/day	NO2 lbs/day	HC lbs/day	CO lbs/day
4008114I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008115I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008116K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008117K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008121K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008122K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008123K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008124K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008125K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008127I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008128G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008129G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008136A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008137A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008138A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008140H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008141H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008142H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008143H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008144I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008145H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008189H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008190H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008210A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008211F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008217F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008270A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008271A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00	0.00	0.00	0.00	0.00
4008270B	07/24/92	Remove CEM's	Cancelled					
4008271B	07/24/92	Remove CEM's	Cancelled					
4008001G	10/01/92	Modify SLC Plan: Surrender 6 PFO's	0.00	0.00	0.00	0.00	0.00	0.00
S-0037-1	09/27/93	Re-establish credit for 4008302B and 4008303B issued on 5/19/80 above						
S-0064-1	09/27/93	Re-establish credit for 4008329B, 4008330B and 4008331 issued on 5/19/80 above						
S-0065-1	09/27/93	Re-establish credit for 4008305B, '306B, '308, '310, '311, and '333 issued on 5/19/80 above						
S-0066-1	09/27/93	Re-establish credit for 4008313B, '315A and '315B issued on 5/19/80 above						
S-0067-1	09/27/93	Re-establish credit for 4008322B and 4008323A issued on 5/19/80 above						
S-0068-1	09/27/93	Re-establish credit for 4008325A and 4008327A issued on 5/19/80 above						

=====
Total authorized emission rate changes since 9/12/79 = -178.38 97.71 -2872.72 -1139.69 0.00 2054.17

ERC's Resulting From Shutdown of Equipment

4008144/501	07/20/92	Shutdown steam generators (1st Qtr)						6.75
4008144/501	07/20/92	Shutdown steam generators (2nd Qtr)						5.71
4008144/501	07/20/92	Shutdown steam generators (3rd Qtr)						5.75
4008144/501	07/20/92	Shutdown steam generators (4th Qtr)						5.08

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008052B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		
4008056B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008109C	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008121B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008122B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008123B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008124B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008125B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00		0.00
4008037B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00		0.00
4008041B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00		0.00
4008046B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00		0.00
4008109D	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00		0.00
		PM emission increase offset with road paving			0.00
4008127A	02/21/80	Install Oxygen analyzer/controller	0.00		0.00
4008301A	05/19/80	Modify TEOR operation control efficiency	-165.00		-165.00
4008302B	05/19/80	Modify TEOR operation control efficiency	-374.40	336.18	-203.22
4008303B	05/19/80	Modify TEOR operation control efficiency	-715.00	645.47	-272.75
4008304A	05/19/80	Modify TEOR operation control efficiency	-344.60		-617.35
4008305B	05/19/80	Modify TEOR operation control efficiency	-195.00	174.81	-637.54
4008306B	05/19/80	Modify TEOR operation control efficiency	-390.00	349.63	-677.91
4008307A	05/19/80	Modify TEOR operation control efficiency	-135.00		-812.91
4008308B	05/19/80	Modify TEOR operation control efficiency	-510.00	457.20	-865.71
4008309C	05/19/80	Modify TEOR operation control efficiency	-585.00		-1450.71
4008310B	05/19/80	Modify TEOR operation control efficiency	-208.80	201.71	-1457.80
4008311A	05/19/80	Modify TEOR operation control efficiency	-418.90	376.52	-1500.18
4008313B	05/19/80	Modify TEOR operation control efficiency	-877.50	779.94	-1597.74
4008315A	05/19/80	Modify TEOR operation control efficiency	-222.00	174.81	-1644.93
4008316B	05/19/80	Modify TEOR operation control efficiency	-463.50	376.52	-1731.91
4008322B	05/19/80	Modify TEOR operation control efficiency	-460.30	416.86	-1775.35
4008323A	05/19/80	Modify TEOR operation control efficiency	-598.00	537.89	-1835.46
4008324B	05/19/80	Modify TEOR operation control efficiency	-249.20		-2084.66
4008325A	05/19/80	Modify TEOR operation control efficiency	-432.50	389.97	-2127.19
4008326A	05/19/80	Modify TEOR operation control efficiency	-75.00		-2202.19
4008327A	05/19/80	Modify TEOR operation control efficiency	-45.00	40.34	-2206.85
4008328B	05/19/80	Modify TEOR operation control efficiency	-80.90		-2287.75
4008329B	05/19/80	Modify TEOR operation control efficiency	-85.00	80.68	-2292.07
4008330B	05/19/80	Modify TEOR operation control efficiency	-40.40	40.40	-2292.07
4008331A	05/19/80	Modify TEOR operation control efficiency	-131.40	107.58	-2315.89
4008333A	05/19/80	Modify TEOR operation control efficiency	-255.00	228.60	-2342.29
4008334A/B	05/19/80	Modify TEOR operation control efficiency	600.00		-1742.29
4008335A/B	05/19/80	Modify TEOR operation control efficiency	300.00		-1442.29
4008320A	05/19/80	Modify TEOR operation control efficiency	-225.00		-1667.29
4008340A	05/19/80	Modify TEOR operation control efficiency	-240.00		-1907.29
4008341A	05/19/80	Modify TEOR operation control efficiency	-690.00		-2597.29
4008146	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008147	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008148	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008149	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008152	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29

4

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008153	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008154	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008155	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008156	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008157	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008158	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008159	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008160	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008161	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008162	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008163	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008164	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008165	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008166	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008180	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008181	05/19/80	62.5 MM BTU/hr oil fired steam generator			-2597.29
4008146A	05/19/80	Flue gas scrubber	0.00		-2597.29
4008149A	05/19/80	Flue gas scrubber	0.00		-2597.29
4008159A	05/19/80	Flue gas scrubber	0.00		-2597.29
4008360	05/19/80	TEOR operation	18.79		-2578.50
4008361	05/19/80	TEOR operation	25.08		-2553.42
4008362	05/19/80	TEOR operation	24.48		-2528.94
4008332A	05/19/80	Modify TEOR operation			-2528.94
4008364	05/19/80	TEOR operation			-2528.94
4008365	05/19/80	TEOR operation			-2528.94
4008366	05/19/80	TEOR operation			-2528.94
4008367	05/19/80	TEOR operation	21.13		-2507.81
4008017B	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008018A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008019A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008020A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008021A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008022A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008023A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008024B	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008025A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008037C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008038A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008039A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008040A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008041C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008042A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.31
4008043A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008044A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008045A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008046C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008047B	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008048B	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008049A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008050A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008051A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008052C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008056C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008061A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008062A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008103A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008104A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008105A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008109E	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008113A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008114A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008115A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008116A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008117A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008121C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008122C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008123C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008124C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008125C	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008128A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008129A	09/15/80	Install Oxygen analyzer/controller	0.00		-2507.81
4008221A	09/16/80	Scrubber substitution	0.00		-2507.81
4008224A	09/16/80	Transfer of Location	0.00		-2507.81
4008302C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008313D	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008316C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008323B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008325B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008331B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008211A	11/14/80	Scrubber for Rule 424 compliance	0.00		-2507.81
4008129B	01/15/81	Lo-NOx staged combustion burner	0.00		-2507.81
4008018B	01/23/81	Experimental reverse jet scrubber	0.00		-2507.81
4008303C	02/12/81	Modify TEOR operation; add H2S scrubber	0.00		-2507.81
4008325C	02/12/81	Modify TEOR operation; add 2 wells	5.00		-2502.81
4008331C	02/12/81	Modify TEOR operation; add 3 wells	7.50		-2495.31
4008310C	02/13/81	Modify TEOR operation; add 1 well	2.50		-2492.81
4008001A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008002A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008003A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008004A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008005A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008006A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008007A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008008A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008009A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008010A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008011A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008012A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008013A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008014A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008015A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008016A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008018C	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008029A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008030A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008053A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008054A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008055A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008057A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008058A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008059A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008060A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008063A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008139A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008140A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008141A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008142A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008143A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008144A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008145A	02/13/81	Install Oxygen analyzer/controller	0.00		-2492.81
4008326B	02/17/81	Modify TEOR operation; add 1 well	2.50		-2490.31
4008015A	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008037D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008041D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008046D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008109E	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008114B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008115B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00		-2490.31
4008211B	03/11/81	Install Oxygen analyzer/controller	0.00		-2490.31
4008217A	03/11/81	Install Oxygen analyzer/controller	0.00		-2490.31
4008222A	04/15/81	Scrubber substitution	0.00		-2490.31
4008224A	04/15/81	Scrubber substitution	0.00		-2490.31
4008244A	04/15/81	Scrubber substitution	0.00		-2490.31
4008245A	04/15/81	Scrubber substitution	0.00		-2490.31
4008010B	09/04/81	Rule 424 scrubber serving 6 S. G.'s			-2490.31
4008807	09/04/81	Soda ash storage tank	0.00		-2490.31
4008002B	09/04/81	Rule 424 scrubber serving 12 S. G.'s			-2490.31
4008808	09/04/81	Soda ash storage tank	0.00		-2490.31
4008322C	09/04/81	Modify TEOR operation; add 7 wells	17.50		-2472.81
4008313E	10/14/81	Modify TEOR operation; add 2 wells	5.00		-2467.81
4008325D	10/14/81	Modify TEOR operation; add 1 well	2.50		-2465.31
4008222B	10/27/81	Modify scrubber	0.00		-2465.31
4008224B	10/27/81	Modify scrubber	0.00		-2465.31
4008245B	10/27/81	Modify scrubber	0.00		-2465.31
4008116B	01/11/82	Ammonia injection system			-2465.31
4008316D	01/18/82	Modify TEOR operation; add 1 well	2.50		-2462.81
4008222B	01/26/82	Transfer of location	0.00		-2462.81

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008025B	04/15/82	Flue gas scrubber for 4 S. G.'s	0.00		-2462.81
4008189	04/15/82	62.5 MM BTU/hr oil fired steam generator			-2462.81
4008190	04/15/82	62.5 MM BTU/hr oil fired steam generator			-2462.81
4008059B	06/17/82	T of L to western stationary source	-2.52		-2465.33
4008002C	08/01/82	Scrubber for 12 steam generators	0.00		-2465.33
	08/01/82	Connect S. G. # 4008049 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008050 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008051 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008057 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008058 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008061 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008062 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008103 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008104 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008105 to scrubber	0.00		-2465.33
	08/01/82	Connect S. G. # 4008116 to scrubber	0.00		-2465.33
4008006B	08/01/82	Transfer of Location	0.00		-2465.33
4008006C	08/01/82	Scrubber for 4 new & 1 existing S. G.'s	0.00		-2465.33
4008037E	08/01/82	North American Lo-NOx burner	0.00		-2465.33
4008038B	08/01/82	North American Lo-NOx burner	0.00		-2465.33
4008039B	08/01/82	North American Lo-NOx burner	0.00		-2465.33
4008040B	08/01/82	North American Lo-NOx burner	0.00		-2465.33
4008191	08/01/82	62.5 MM BTU/hr oil fired steam generator	5.84		-2459.49
4008192	08/01/82	62.5 MM BTU/hr oil fired steam generator	5.84		-2453.65
4008193	08/01/82	62.5 MM BTU/hr oil fired steam generator	5.84		-2447.81
4008194	08/01/82	62.5 MM BTU/hr oil fired steam generator	5.84		-2441.97
4008374	08/01/82	TEOR operation serving 58 wells	-428.00		-2869.97
4008818	08/01/82	Soda ash storage silo	0.00		-2869.97
4008121D	08/04/82	Replacement steam generator	0.00		-2869.97
4008122D	08/04/82	Replacement steam generator	0.00		-2869.97
4008123D	08/04/82	Replacement steam generator	0.00		-2869.97
4008124D	08/04/82	Replacement steam generator	0.00		-2869.97
4008125D	08/04/82	Replacement steam generator	0.00		-2869.97
4008128E	08/12/82	Exp. Lo-NOx staged combustion burner	0.00		-2869.97
4008438	10/07/82	Rail car coal unloading operation	0.00		-2869.97
4008439	10/07/82	Coal transfer and storage operation			-2869.97
4008440	10/07/82	Limestone receiving and storage	0.00		-2869.97
4008441	10/07/82	Coal fired steam generator	62.40		-2807.57
4008442	10/07/82	Ash handling and disposal	0.00		-2807.57
4008013B	01/18/83	Multiple locations for SG	0.10		-2807.47
4008189A	01/18/83	62.5 MM BTU/hr oil fired steam generator	6.39		-2801.08
4008190A	01/18/83	62.5 MM BTU/hr oil fired steam generator	6.39		-2794.69
	01/18/83	Surrender P to O # 4008005	-2.60		-2797.29
	01/19/83	Surrender P to O # 4008010	-3.10		-2800.39
	01/18/83	Surrender P to O # 4008030	-2.60		-2802.99
	01/19/83	Surrender P to O # 4008060	-2.80		-2805.79
4008007B	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008037F	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008038C	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008039C	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008040C	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008063B	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008117B	08/12/83	Raise fuel sulfur to 1.2% by weight			-2805.79
4008332B	09/26/83	Mod. TEOR operation; consolidate systems	-264.40		-3070.19
4008364A	09/26/83	Mod. TEOR operation; consolidate systems			-3070.19
4008334C	10/07/83	Modify TEOR operation; add incinerator	-382.10		-3952.29
4008335C	10/07/83	Modify TEOR operation; add incinerator	-470.40		-4422.69
4008303D	04/03/84	Modify TEOR operation; add wells	3.10		-4419.59
4008311C	04/03/84	Modify TEOR operation; add wells	6.30		-4413.29
4008320A	04/03/84	Modify TEOR operation; add wells	3.10		-4410.19
4008322E	04/03/84	Modify TEOR operation; add wells	6.90		-4403.29
4008330C	04/03/84	Modify TEOR operation; add wells	3.10		-4400.19
4008305C	04/30/84	Modify TEOR operation	0.00		-4400.19
4008306C	04/30/84	Modify TEOR operation	0.00		-4400.19
4008308C	04/30/84	Modify TEOR operation	0.00		-4400.19
4008315B	04/30/84	Modify TEOR operation	0.00		-4400.19
4008316E	04/30/84	Modify TEOR operation	0.00		-4400.19
4008443	05/11/84	3,000 bbl wash tank	12.90		-4387.29
4008444	05/11/84	5,000 bbl wash tank	13.80		-4373.49
4008323C	06/08/84	Modify TEOR operation	18.84		-4354.65
4008325E	06/08/84	Modify TEOR operation	3.14		-4351.51
4008304B	08/27/84	Modify TEOR operation			-4351.51
4008307B	08/27/84	Modify TEOR operation			-4351.51
4008308D	08/27/84	Modify TEOR operation			-4351.51
4008309D	08/27/84	Modify TEOR operation			-4351.51
4008310D	08/27/84	Modify TEOR operation			-4351.51
4008311D	08/27/84	Modify TEOR operation			-4351.51
4008333B	08/27/84	Modify TEOR operation			-4351.51
4008331D	10/08/84	Modify TEOR operation; add 1 well	3.14		-4348.37
4008002D	10/29/84	Revise scrubber eff. & emission limits	0.00		-4348.37
4008024C	10/29/84	Revise scrubber eff. & emission limits	0.80		-4347.57
4008025C	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008049B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008050B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008051B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008055B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008057B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008061B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008062B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008103B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008104B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008105B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008116B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008127B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4347.57
4008140B	10/29/84	Revise scrubber eff. & emission limits	0.80		-4346.77
4008141B	10/29/84	Revise scrubber eff. & emission limits	0.80		-4345.97
4008142B	10/29/84	Revise scrubber eff. & emission limits	0.80		-4345.17
4008143B	10/29/84	Revise scrubber eff. & emission limits	0.30		-4344.37

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008144B	10/29/84	Revise scrubber eff. & emission limits	0.80		-4343.57
4008145B	10/29/84	Revise scrubber eff. & emission limits	0.80		-4342.77
4008189B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4342.77
4008190B	10/29/84	Revise scrubber eff. & emission limits	0.00		-4342.77
4008340B	10/29/84	Modify TEOR Operation	-12.50		-4355.27
4008341B	10/29/84	Modify TEOR Operation	-32.50		-4387.77
	10/29/84	Surrender P to O # 4008011	-2.81		-4390.58
	10/29/84	Surrender P to O # 4008058	-2.93		-4393.51
	10/29/84	Surrender A to C # 4008339	-37.50		-4431.01
4008002E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008007C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008014B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008017C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008018D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008019B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008020B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008021B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008022B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008023B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008024D/E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008037G	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008038D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008039D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008040D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008041E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008042B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008044B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008045B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008046E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008047B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008048B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008049C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008050C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008051C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008052D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008053B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008055C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008056D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008057C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008061C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008062C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008063C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008103C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008104C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008015C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008109G	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008113B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008114C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008115C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008116C/D	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008117C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008121E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008122E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008123E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008124E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008125E	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008129B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008139B	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008140C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008141C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008142C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008143C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008144C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
4008145C	11/26/84	Increase SO2 control eff. for Rule 424	0.00		-4431.01
	11/26/84	Surrender A to C # 4008339A	-37.50		-4468.51
4008313P	11/30/84	Modify TEOR operation			-4468.51
4008315C	11/30/84	Modify TEOR operation			-4468.51
4008316F	11/30/84	Modify TEOR operation			-4468.51
4008325F	11/30/84	Modify TEOR operation			-4468.51
4008326C	11/30/84	Modify TEOR operation			-4468.51
	11/30/84	Surrender A to C # 4008327A	-7.50		-4476.01
4008025D	01/04/85	Modify scrubber	0.00		-4476.01
4008313G	03/29/85	Modify TEOR operation	361.10		-4114.91
4008315D	03/29/85	Modify TEOR operation	69.10		-4045.81
4008316G	03/29/85	Modify TEOR operation	207.20		-3838.61
4008325G	03/29/85	Modify TEOR operation	194.70		-3643.91
4008326D	03/29/85	Modify TEOR operation	69.10		-3574.81
4008304C	05/14/85	Modify TEOR operation	100.50		-3474.31
4008307C	05/14/85	Modify TEOR operation	94.20		-3380.11
4008308E	05/14/85	Modify TEOR operation	141.30		-3238.81
4008309E	05/14/85	Modify TEOR operation	270.10		-2968.71
4008310E	05/14/85	Modify TEOR operation	59.70		-2909.01
4008311E	05/14/85	Modify TEOR operation	125.60		-2783.41
4008333C	05/14/85	Modify TEOR operation	72.20		-2711.21
4008301B	06/28/85	Modify TEOR operation	133.60		-2577.61
4008331E	06/28/85	Modify TEOR operation	70.60		-2507.01
4008381	06/28/85	New TEOR operation	147.50		-2359.51
	06/28/85	Surrender P to O # 4008328	-20.00		-2379.51
	06/28/85	Surrender P to O # 4008329	-20.00		-2399.51
	06/28/85	Surrender P to O # 4008330	-10.00		-2409.51
	06/28/85	Surrender A to C # 4008328B	-67.50		-2477.01
	06/28/85	Surrender A to C # 4008329B	-85.00		-2562.01
	06/28/85	Surrender A to C # 4008330B	-60.00		-2622.01
4008322F	06/28/85	Modify TEOR operation	131.10		-2490.91
4008323D	06/28/85	Modify TEOR operation	260.40		-2230.51
4008303E	08/13/85	Modify TEOR operation	0.00		-2230.51

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008332C	08/13/85	Modify TEOR operation	-39.00		-2269.51
4008334D	08/13/85	Modify TEOR operation	-78.00		-2347.51
4008335D	08/13/85	Modify TEOR operation	-52.50		-2400.01
4008340C	08/13/85	Modify TEOR operation	0.00		-2400.01
4008341C	08/13/85	Modify TEOR operation	9.40		-2390.61
4008435A	09/27/85	Modify tank battery	0.00		-2390.61
4008003B	12/03/85	Revise NOx emission limits			-2390.61
4008004E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008006D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008007D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008008B	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008009B	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008012B	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008013C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008014C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008016B	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008017E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008018F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008019C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008020C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008021C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008022C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008023C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008024F	12/03/85	Revise NOx emission limits			-2390.61
4008025E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008037H	12/03/85	Revise NOx emission limits			-2390.61
4008038E	12/03/85	Revise NOx emission limits			-2390.61
4008039E	12/03/85	Revise NOx emission limits			-2390.61
4008040E	12/03/85	Revise NOx emission limits			-2390.61
4008041G	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008042C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008043C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008044C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008045C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008046F	12/03/85	Revise NOx emission limits			-2390.61
4008047C	12/03/85	Revise NOx emission limits			-2390.61
4008048C	12/03/85	Revise NOx emission limits			-2390.61
4008049D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008050D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008051D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008052E	12/03/85	Revise NOx emission limits			-2390.61
4008053C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008054B	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008055D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008056E	12/03/85	Revise NOx emission limits			-2390.61
4008061D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008062D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008063D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008103D	12/03/85	Revise NOx emission limits	0.00		-2390.61

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008014D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008105D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008109H	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008113C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008114D	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008115E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008116E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008117E	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008121F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008122F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008123F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008124F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008125F	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008127C	12/03/85	Revise NOx emission limits			-2390.61
4008128C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008129C	12/03/85	Revise NOx emission limits	0.00		-2390.61
4008211C	01/10/86	Revise approved emission limits	0.00		-2390.61
4008217B	01/10/86	Revise approved emission limits	0.00		-2390.61
4008221B	01/10/86	Revise approved emission limits	0.00		-2390.61
4008222C	01/10/86	Revise approved emission limits	0.00		-2390.61
4008223B	01/10/86	Revise approved emission limits	0.00		-2390.61
4008224B	01/10/86	Revise approved emission limits	0.00		-2390.61
4008441A	01/10/86	Revise approved emission limits	-60.70		-2451.31
	01/10/86	Surrender P to O 4008255	-1.34		-2452.65
	01/10/86	Surrender P to O 4008256	-1.34		-2453.99
4008002F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008006E	02/20/86	Revise existing S. G. emission limits			-2453.99
4008007E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008012C/D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008014D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008015D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008029B	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008037I	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008038J	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008039F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008040F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008041H	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008042D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008043D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008044D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008045D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008046G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008047D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008048D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008049E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008050E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008051E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008052F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008053D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008056F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008057D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008061E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008062E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008063E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008103E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008104E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008105E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008109I	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008113D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008114E	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008115F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008116F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008117F	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008121G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008122G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008123G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008124G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.39
4008125G	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008128D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.39
4008129D	02/20/86	Revise existing S. G. emission limits	0.00		-2453.99
4008146B	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2447.59
4008147A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2441.19
4008148A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2434.79
4008149B/C	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2428.39
4008152A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2421.99
4008153A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2415.59
4008154A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2409.19
4008155A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2402.79
4008156A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2396.39
4008157A	02/20/86	62.5 MM BTU/hr Steam Generator	6.40		-2389.99
4008158A	02/20/86	Revise scrubber conditions of approval	0.00		-2383.99
4008265	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	2.69		-2387.30
4008266	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	2.69		-2384.61
4008267	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	2.69		-2381.92
4008268	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	2.69		-2379.23
4008269	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	2.69		-2376.54
4008332D	05/07/86	Modify TEOR operation 27-CC-1	0.00		-2376.54
4008017D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008018E	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008019D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008020D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008021D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008022D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008023D	06/19/86	Revise steam generator cond. of approval	0.00		-2376.54
4008024G	06/19/86	Revise steam generator cond. of approval	-0.79		-2377.33
4008025F	06/19/86	Revise steam generator cond. of approval	0.00		-2377.33
4008053D	06/19/86	Revise steam generator cond. of approval	0.00		-2377.33
4008055E	06/19/86	Revise steam generator cond. of approval	0.00		-2377.33

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008127C	06/19/86	Revise steam generator cond. of approval	0.00		-2377.33
4008140D	06/19/86	Revise steam generator cond. of approval	-0.79		-2378.12
4008141D	06/19/86	Revise steam generator cond. of approval	-0.79		-2378.91
4008142D	06/19/86	Revise steam generator cond. of approval	-0.79		-2379.70
4008143D	06/19/86	Revise steam generator cond. of approval	-0.79		-2380.49
4008144D	06/19/86	Revise steam generator cond. of approval	-0.79		-2381.28
4008145D	06/19/86	Revise steam generator cond. of approval	-0.79		-2382.07
4008159B	06/19/86	Revise steam generator cond. of approval	6.40		-2375.67
4008159C	06/19/86	Revise flue gas scrubber cond. of approval	0.00		-2375.67
4008160A	06/19/86	Revise steam generator cond. of approval	6.40		-2369.27
4008161A	06/19/86	Revise steam generator cond. of approval	6.40		-2362.87
4008162A	06/19/86	Revise steam generator cond. of approval	6.40		-2356.47
4008163A	06/19/86	Revise steam generator cond. of approval	6.40		-2350.07
4008164A	06/19/86	Revise steam generator cond. of approval	6.40		-2343.67
4008165A	06/19/86	Revise steam generator cond. of approval	6.40		-2337.27
4008166A	06/19/86	Revise steam generator cond. of approval	6.40		-2330.87
4008189C	06/19/86	Revise steam generator cond. of approval	0.00		-2330.87
4008190C	06/19/86	Revise steam generator cond. of approval	0.00		-2330.87
4008017F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008018G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008019E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008020E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008021E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008022E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008023E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008024H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008025G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008041I	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008042E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008043E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008044E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008045E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008046H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008047E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008048E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008049F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008050F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008051F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008052G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008056G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008061F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008062F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008103F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008104F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008105F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008109J	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008113E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008114F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008115G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008116G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008117G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008121H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008122H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008123H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008124H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008125H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008127D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008139C	06/19/86	Revise SG authorised emission limits	0.00		-2330.87
4008140E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008141E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008142E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008143E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008144E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008145E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2330.87
4008146C	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008147B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008148B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008149D	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008152B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008153B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008154B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008155B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008156B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008157B	06/19/86	Install wet ESP serving 10 SG's	0.00		-2330.87
4008158B	06/19/86	Revise SG conditions of approval	6.40		-2324.47
4008159C	06/19/86	Change of location	0.00		-2324.47
4008159D	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008160B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008161B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008162B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008163B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008164B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008165B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008166B	06/19/86	Install wet ESP serving 8 SG's	0.00		-2324.47
4008180A	06/19/86	Revise SG conditions of approval	6.40		-2318.07
4008181A	06/19/86	Revise SG conditions of approval	6.40		-2311.67
4008189D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2311.67
4008190D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00		-2311.67
4008191A	06/19/86	Revise SG authorised emission limits	0.00		-2311.67
4008192A	06/19/86	Revise SG authorised emission limits	0.00		-2311.67
4008193A	06/19/86	Revise SG authorised emission limits	0.00		-2311.67
4008194A	06/19/86	Revise SG authorised emission limits	0.00		-2311.67
4008217C	06/19/86	Revise op. cond. from 100/75 to 80/80	-0.53		-2312.20
4008221C	06/19/86	Revise op. cond. from 100/90 to 80/80	-1.27		-2313.47
4008222D	06/19/86	Revise op. cond. from 100/90 to 80/80	-1.27		-2314.74
4008224B	06/19/86	Revise op. cond. from 100/90 to 80/80	-1.27		-2316.01
4008263	06/19/86	62.5 MM BTU/hr oil fired steam generator	6.40		-2309.61
4008264	06/19/86	62.5 MM BTU/hr oil fired steam generator	6.40		-2303.21

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008270	06/19/86	22.3 MW cogeneration system w/duct burner	280.09		-2023.12
4008271	06/19/86	22.3 MW cogeneration system w/duct burner	280.09		-1743.03
4008273	06/19/86	62.5 MM BTU/hr gas fired steam generator	2.80		-1740.23
4008274	06/19/86	62.5 MM BTU/hr gas fired steam generator	2.80		-1737.43
4008275	06/19/86	62.5 MM BTU/hr gas fired steam generator	2.80		-1734.63
4008276	06/19/86	62.5 MM BTU/hr gas fired steam generator	2.80		-1731.83
4008277	06/19/86	62.5 MM BTU/hr gas fired steam generator	2.80		-1729.03
4008278	06/19/86	2.80 MW cogeneration system w/duct burner	24.35		-1704.68
4008279	06/19/86	2.80 MW cogeneration system w/duct burner	24.35		-1680.33
4008280	06/19/86	2.80 MW cogeneration system w/duct burner	24.35		-1655.98
4008281	06/19/86	2.80 MW cogeneration system w/duct burner	24.35		-1631.63
	06/19/86	Surrender Authority to Construct # 4008132	-0.83		-1632.46
	06/19/86	Surrender Authority to Construct # 4008133	-0.83		-1633.29
	06/19/86	Surrender Permit to Operate # 4008223	-4.40		-1637.69
	06/19/86	Surrender Authority to Construct # 4008244	-4.32		-1642.01
	06/19/86	Surrender Authority to Construct # 4008245	-4.32		-1646.33
	06/19/86	Surrender Authority to Construct # 4008246	-0.60		-1646.93
	06/19/86	Surrender Authority to Construct # 4008247	-0.60		-1647.53
	06/19/86	Surrender Authority to Construct # 4008248	-0.30		-1647.83
	06/19/86	Surrender Authority to Construct # 4008250	-0.60		-1648.43
	06/19/86	Surrender Authority to Construct # 4008251	-0.60		-1649.03
4008324D	06/23/86	Modify TEOR Operation; add 2 wells	6.28		-1642.75
4008335E	06/23/86	Modify TEOR Operation; delete 2 wells	-6.28		-1649.03
4008340D	06/23/86	Modify TEOR Operation; add 1 wells	3.14		-1645.89
4008341D	06/23/86	Modify TEOR Operation; add 4 wells	12.56		-1633.33
4008302D	06/26/86	Modify TEOR Operation; add 2 wells	6.28		-1627.05
4008303F	06/26/86	Modify TEOR Operation;	0.00		-1627.05
4008305D	06/26/86	Modify TEOR Operation; add 2 wells	6.28		-1620.77
4008306D	06/26/86	Modify TEOR Operation; add 4 wells	12.56		-1608.21
4008024I	08/01/86	Revise steam generator HC emission limits	8.96		-1599.25
4008140F	08/01/86	Revise steam generator HC emission limits	8.96		-1590.29
4008141F	08/01/86	Revise steam generator HC emission limits	8.96		-1581.33
4008142F	08/01/86	Revise steam generator HC emission limits	8.96		-1572.37
4008143F	08/01/86	Revise steam generator HC emission limits	8.96		-1563.41
4008144F	08/01/86	Revise steam generator HC emission limits	8.96		-1554.45
4008145F	08/01/86	Revise steam generator HC emission limits	8.96		-1545.49
4008341B	08/01/86	Modify TEOR Operation; add 23 wells	63.90		-1481.59
4008361A	09/16/86	Combine three TEOR operations	-51.20		-1532.79
4008445	09/24/86	Soda ash storage silo	0.00		-1532.79
4008447	10/10/86	Soda ash storage silo	0.00		-1532.79
4008448	10/10/86	Soda ash storage silo	0.00		-1532.79
4008449	10/10/86	Soda ash storage silo	0.00		-1532.79
4008450	10/10/86	Soda ash storage silo	0.00		-1532.79
4008006F	11/25/86	Increase fuel S % from 1.1% to 1.2%	0.00		-1532.79
4008016C	11/25/86	Increase fuel S % from 1.1% to 1.2%	0.00		-1532.79
4008302E	02/02/87	Modify TEOR operation; revise well roster	0.00		-1532.79
4008303G	02/02/87	Modify TEOR operation; revise well roster	0.00		-1532.79
4008305E	02/02/87	Modify TEOR operation; revise well roster	0.00		-1532.79
4008306E	02/02/87	Modify TEOR operation; revise well roster	0.00		-1532.79

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008385H	02/02/87	Modify TEOR operation; revise well roster	0.00		-1532.79
4008150B	04/08/87	Change steam generator ESL's	0.00		-1532.79
4008046I	05/22/87	Increase S. G. hydrocarbon ESL's	8.96		-1523.83
4008047G	05/22/87	Increase S. G. hydrocarbon ESL's	8.96		-1514.87
4008048G	05/22/87	Increase S. G. hydrocarbon ESL's	8.96		-1505.91
4008052H	05/22/87	Increase S. G. hydrocarbon ESL's	8.96		-1496.95
4008056H	05/22/87	Increase S. G. hydrocarbon ESL's	8.96		-1487.99
4008001B	09/29/87	Change steam generator HC ESL's	5.01		-1482.98
4008002G	09/29/87	Change steam generator HC ESL's	4.25		-1478.73
4008003C	09/29/87	Change steam generator HC ESL's	4.18		-1474.55
4008004C	09/29/87	Change steam generator HC ESL's	4.25		-1470.30
4008006B	09/29/87	Change steam generator HC ESL's	4.25		-1466.05
4008007F	09/29/87	Change steam generator HC ESL's	4.18		-1461.87
4008008C	09/29/87	Change steam generator HC ESL's	4.25		-1457.62
4008009C	09/29/87	Change steam generator HC ESL's	4.25		-1453.37
4008012E	09/29/87	Change steam generator HC ESL's	4.18		-1449.19
4008013D	09/29/87	Change steam generator HC ESL's	4.25		-1444.94
4008014E	09/29/87	Change steam generator HC ESL's	4.18		-1440.75
4008015F	09/29/87	Change steam generator HC ESL's	4.18		-1436.58
4008016D	09/29/87	Change steam generator HC ESL's	4.25		-1432.33
4008017H	09/29/87	Change steam generator HC ESL's	8.96		-1423.37
4008018I	09/29/87	Change steam generator HC ESL's	8.96		-1414.41
4008019F	09/29/87	Change steam generator HC ESL's	8.96		-1405.45
4008020F	09/29/87	Change steam generator HC ESL's	8.96		-1396.49
4008021F	09/29/87	Change steam generator HC ESL's	8.96		-1387.53
4008022F	09/29/87	Change steam generator HC ESL's	8.96		-1378.57
4008023F	09/29/87	Change steam generator HC ESL's	8.96		-1369.61
4008025H	09/29/87	Change steam generator HC ESL's	8.96		-1360.65
4008029C	09/29/87	Change steam generator HC ESL's	4.25		-1356.40
4008037J	09/29/87	Change steam generator HC ESL's	8.96		-1347.44
4008038K	09/29/87	Change steam generator HC ESL's	8.96		-1338.48
4008039G	09/29/87	Change steam generator HC ESL's	8.96		-1329.52
4008040G	09/29/87	Change steam generator HC ESL's	8.96		-1320.56
4008041J	09/29/87	Change steam generator HC ESL's	8.96		-1311.60
4008042F	09/29/87	Change steam generator HC ESL's	8.96		-1302.64
4008043F	09/29/87	Change steam generator HC ESL's	8.96		-1293.68
4008044F	09/29/87	Change steam generator HC ESL's	8.96		-1284.72
4008045F	09/29/87	Change steam generator HC ESL's	8.96		-1275.76
4008049G	09/29/87	Change steam generator HC ESL's	8.96		-1266.80
4008050G	09/29/87	Change steam generator HC ESL's	8.96		-1257.84
4008051G	09/29/87	Change steam generator HC ESL's	8.96		-1248.88
4008053F	09/29/87	Change steam generator HC ESL's	4.25		-1244.63
4008054C	09/29/87	Change steam generator HC ESL's	4.25		-1240.38
4008055F	09/29/87	Change steam generator HC ESL's	4.25		-1236.13
4008057E	09/29/87	Change steam generator HC ESL's	4.25		-1231.88
4008061G	09/29/87	Change steam generator HC ESL's	8.96		-1222.92
4008062G	09/29/87	Change steam generator HC ESL's	8.96		-1213.96
4008063F	09/29/87	Change steam generator HC ESL's	4.25		-1209.71
4008103G	09/29/87	Change steam generator HC ESL's	8.96		-1200.75

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC ibm/day	Reestab Offsets	HC Summation
4008104G	09/29/87	Change steam generator HC ESL's	8.96		-1191.79
4008105G	09/29/87	Change steam generator HC ESL's	8.96		-1182.83
4008109K	09/29/87	Change steam generator HC ESL's	8.96		-1179.87
4008113F	09/29/87	Change steam generator HC ESL's	8.96		-1164.91
4008114G	09/29/87	Change steam generator HC ESL's	8.96		-1155.95
4008115H	09/29/87	Change steam generator HC ESL's	8.96		-1146.99
4008116H	09/29/87	Change steam generator HC ESL's	8.96		-1138.03
4008117H	09/29/87	Change steam generator HC ESL's	8.96		-1129.07
4008121I	09/29/87	Change steam generator HC ESL's	8.96		-1120.11
4008122I	09/29/87	Change steam generator HC ESL's	8.96		-1111.15
4008123I	09/29/87	Change steam generator HC ESL's	8.96		-1102.19
4008124I	09/29/87	Change steam generator HC ESL's	8.96		-1093.23
4008125I	09/29/87	Change steam generator HC ESL's	8.96		-1084.27
4008127F	09/29/87	Change steam generator HC ESL's	8.96		-1075.31
4008128E	09/29/87	Change steam generator HC ESL's	8.96		-1066.35
4008129E	09/29/87	Change steam generator HC ESL's	8.96		-1057.39
4008139E	09/29/87	Change steam generator HC ESL's	8.96		-1048.43
4008146F	09/29/87	Change steam generator HC ESL's	8.96		-1039.47
4008147D	09/29/87	Change steam generator HC ESL's	8.96		-1030.51
4008148D	09/29/87	Change steam generator HC ESL's	8.96		-1021.55
4008149E	09/29/87	Change steam generator HC ESL's	8.96		-1012.59
4008152C	09/29/87	Change steam generator HC ESL's	8.96		-1003.63
4008153C	09/29/87	Change steam generator HC ESL's	8.96		-994.67
4008154C	09/29/87	Change steam generator HC ESL's	8.96		-985.71
4008155C	09/29/87	Change steam generator HC ESL's	8.96		-976.75
4008156C	09/29/87	Change steam generator HC ESL's	8.96		-967.79
4008157C	09/29/87	Change steam generator HC ESL's	8.96		-958.83
4008158C	09/29/87	Change steam generator HC ESL's	8.96		-949.87
4008159E	09/29/87	Change steam generator HC ESL's	8.96		-940.91
4008160C	09/29/87	Change steam generator HC ESL's	8.96		-931.95
4008161C	09/29/87	Change steam generator HC ESL's	8.96		-922.99
4008162C	09/29/87	Change steam generator HC ESL's	8.96		-914.03
4008163C	09/29/87	Change steam generator HC ESL's	8.96		-905.07
4008164C	09/29/87	Change steam generator HC ESL's	8.96		-896.11
4008165C	09/29/87	Change steam generator HC ESL's	8.96		-887.15
4008166C	09/29/87	Change steam generator HC ESL's	8.96		-878.19
4008180B	09/29/87	Change steam generator HC ESL's	8.96		-869.23
4008181B	09/29/87	Change steam generator HC ESL's	8.96		-860.27
4008189E	09/29/87	Change steam generator HC ESL's	8.96		-851.31
4008190E	09/29/87	Change steam generator HC ESL's	8.96		-842.35
4008191C	09/29/87	Change steam generator HC ESL's	9.52		-832.83
4008192C	09/29/87	Change steam generator HC ESL's	9.52		-823.31
4008193C	09/29/87	Change steam generator HC ESL's	9.52		-813.79
4008194C	09/29/87	Change steam generator HC ESL's	9.52		-804.27
4008211D	09/29/87	Change steam generator HC ESL's	4.18		-800.09
4008217D	09/29/87	Change steam generator HC ESL's	4.92		-795.17
4008221D	09/29/87	Change steam generator HC ESL's	4.86		-790.21
4008222E	09/29/87	Change steam generator HC ESL's	4.86		-785.45
4008224D	09/29/87	Change steam generator HC ESL's	4.96		-780.59

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79
Through Projects Deemed Complete Before 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008263A	09/29/87	Change steam generator HC ESL's	8.96		-771.63
4008264A	09/29/87	Change steam generator HC ESL's	8.96		-762.67
4008265A	09/29/87	Change steam generator HC ESL's	4.38		-758.29
4008266A	09/29/87	Change steam generator HC ESL's	4.38		-753.91
4008267A	09/29/87	Change steam generator HC ESL's	4.38		-749.53
4008268A	09/29/87	Change steam generator HC ESL's	4.38		-745.15
4008269A	09/29/87	Change steam generator HC ESL's	4.38		-740.77
4008273A	09/29/87	Change steam generator HC ESL's	4.27		-736.50
4008274A	09/29/87	Change steam generator HC ESL's	4.27		-732.23
4008275A	09/29/87	Change steam generator HC ESL's	4.27		-727.96
4008276A	09/29/87	Change steam generator HC ESL's	4.27		-723.69
4008277A	09/29/87	Change steam generator HC ESL's	4.27		-719.42
4008024J	11/04/87	Modify SO2 monitoring requirements	0.00		-719.42

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbs/day	* HC Suction
Total adjustments from 9/12/79 to 6/22/87 =			-6434.53	
Rule 210.1 rule change adjustments =			6434.53	
-----			0.00	
4008001C	12/02/87	Change of location of portable S. G.	0.00	0.00
4008017I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008018J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008019G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008020G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008021G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008022G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008023G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008024K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008025I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008037K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008038L	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008039H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008040H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008041K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008042G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008043G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008044G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008045G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008046J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008047H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008049H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008050H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008051H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008052I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008056I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008061H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008062H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008103H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008104H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008105H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008109L	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008113G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008114H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008115I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008116I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008117I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008121J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008122J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008123J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008124J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008125J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008127G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00

* Note: Chevron is not proposing any reductions after 6/22/87

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbs/day	HC Summation
4008128F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008129F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008139F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008140G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008141G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008142G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008143G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008144G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008145G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008146G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008147E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008148E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008149F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008152D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008153D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008154D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008155D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008156D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008157D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008159F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008160D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008161D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008162D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008163D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008164D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008165D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008166D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008189F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008190F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00
4008313H	02/12/88	TEOR modification; change incinerators	0.00	0.00
4008315E	02/12/88	TEOR modification; change incinerators	0.00	0.00
4008316H	02/12/88	TEOR modification; change incinerators	0.00	0.00
4008325H	02/12/88	TEOR modification; change incinerators	0.00	0.00
4008326E	02/12/88	TEOR modification; change incinerators	0.00	0.00
4008301C	09/29/88	TEOR modifications	0.00	0.00
4008304D	09/29/88	TEOR modifications	0.00	0.00
4008305F	09/29/88	TEOR modifications	0.00	0.00
4008306F	09/29/88	TEOR modifications	0.00	0.00
4008307D	09/29/88	TEOR modifications	0.00	0.00
4008308F	09/29/88	TEOR modifications	0.00	0.00
4008309F	09/29/88	TEOR modifications	0.00	0.00
4008310F	09/29/88	TEOR modifications	0.00	0.00
4008311F	09/29/88	TEOR modifications	0.00	0.00
4008313I	09/29/88	TEOR modifications	0.00	0.00
4008315F	09/29/88	TEOR modifications	0.00	0.00
4008316I	09/29/88	TEOR modifications	0.00	0.00
4008322G	09/29/88	TEOR modifications	0.00	0.00
4008323E	09/29/88	TEOR modifications	0.00	0.00
4008324E	09/29/88	TEOR modifications	0.00	0.00

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbz/day	HC Summation
4008325I	09/29/88	TECR modifications	0.00	0.00
4008326F	09/29/88	TECR modifications	0.00	0.00
4008331F	09/29/88	TECR modifications	0.00	0.00
4008333D	09/29/88	TECR modifications	0.00	0.00
4008381A	09/29/88	TECR modifications	0.00	0.00
4008496	10/14/88	Rule 427 piston engine controls	0.00	0.00
4008497	10/14/88	Rule 427 piston engine controls	0.00	0.00
4008019H	11/28/88	Steam generator transfer of location	0.00	0.00
4008116J	11/28/88	Steam generator transfer of location	0.00	0.00
4008334E	02/03/89	TECR Mod.; change wells, delete incin.	0.00	0.00
4008335F	02/03/89	TECR Mod.; change wells, delete incin.	0.00	0.00
4008019H	11/28/88	T of L	0.00	0.00
4008116J	11/28/88	T of L	0.00	0.00
4008211E	03/27/90	T of L	0.00	0.00
4008217E	03/27/90	T of L	0.00	0.00
4008025J	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008039I	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008040I	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008046K	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008047I	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008048I	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008052J	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008056J	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008117J	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008127H	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008189G	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
4008190G	09/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustcent for prev. 12 ATC's	0.00	0.00
4008022I	10/08/90	Transfer of location	0.00	0.00
4008144H	10/08/90	Transfer of location	0.00	0.00
4008017J	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008017J	0.00	0.00
4008018K	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008018K	0.00	0.00
4008019I	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008019I	0.00	0.00
4008020H	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008020H	0.00	0.00
4008021H	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008021H	0.00	0.00
4008022H	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008022H	0.00	0.00
4008023H	12/04/90	Gas fire w/PGR on existing SG	0.00	0.00
		SSSA adjustments for 4008023H	0.00	0.00
4008001D	02/01/91	Add/delete location on PTO	0.00	0.00
4008001E		Add SLC for Rule 210.1 Compliance Plan		0.00
4008001F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008002H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008003D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbn/day	HC Succation
4008004D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008006H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008007G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008008D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008009D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008012P	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008013E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008014F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008015G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008016E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008017K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008018L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008019J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008020I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008021I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008022J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008023I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008024L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008025K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008029E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008037E	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008038H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008039J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008040J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008041L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008042H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008043H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008044H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008045H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008046L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008047J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008048J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008049I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008050I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008051I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008052K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008053G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008054D	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008055G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008056K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008057P	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008061I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008062I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008063G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008103I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008104I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008105I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008109H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008113H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00

Chevron U. S. A. Central Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC Summation
4006114I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008115J	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008116K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008117L	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008121K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008122K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008123K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008124K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008125K	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008127I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008128G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008129G	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008135A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008137A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008138A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008140H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008141H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008142H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008143H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008144I	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008145H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008189H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008190H	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008210A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008211F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008217F	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008270A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008271A	09/20/91	Add SLC for Rule 210.1 Compliance Plan	0.00	0.00
4008270B	07/24/92	Remove CBH's		0.00
4008271B	07/24/92	Remove CBH's		0.00
4008001G	10/01/92	Modify SLC Plan: Surrender 6 PTO's	0.00	0.00

=====
 Total authorized emission rate changes since 9/12/79 = 0.00

Chevron U. S. A. Western Stationary Source (HEAVY)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008077A	11/08/79	Retrofit scrubber on existing steam gen.	0.00		
4008219A	11/30/79	Scrubber substitution	0.00		0.00
4008220A	11/30/79	Scrubber substitution	0.00		0.00
4008343A	12/06/79	Modification of TEOR Operation	0.00		0.00
4008096	12/27/79	T of L and correct A to C	0.00		0.00
4008385B	02/15/80	Modify TEOR operation: add fin-fan	0.00		0.00
4008386B	02/15/80	Modify TEOR operation; add fin-fan	0.00		0.00
4008225	04/02/80	Subtitute steam generator for # 4020001	0.00		0.00
4008066	04/30/80	62.5 MM BTU/hr steam generator			0.00
4008069	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008092	04/30/80	62.5 MM BTU/hr steam generator			0.00
4008093	04/30/80	62.5 MM BTU/hr steam generator			0.00
4008094	04/30/80	62.5 MM BTU/hr steam generator			0.00
4008095	04/30/80	62.5 MM BTU/hr steam generator			0.00
4008100	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008101	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008150	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008151	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008179	04/30/80	27.5 MM BTU/hr steam generator			0.00
4008349B	04/30/80	Experimental H2S scrubber	0.00		0.00
4008032A	05/19/80	Retrofit scrubber to 4 existing S. G.s			0.00
	05/19/80	4008032	0.00		0.00
	05/19/80	4008033	0.00		0.00
	05/19/80	4008080	0.00		0.00
	05/19/80	4008084	0.00		0.00
4008034B	05/19/80	Modify existing scrubber; add 4 SG's	0.00		0.00
4008065C	05/19/80	Mod. scrubber serving SG's 065, 078, 079			0.00
4008077B	05/19/80	Mod. scrubber serving SG 4008077			0.00
4008081B	05/19/80	Retrofit scrubber to 3 existing S. G.s			0.00
	05/19/80	4008081	0.00		0.00
	05/19/80	4008082	0.00		0.00
	05/19/80	4008083	0.00		0.00
4008085A	05/19/80	Retrofit scrubber to 5 existing S. G.s			0.00
	05/19/80	4008085	0.00		0.00
	05/19/80	4008086	0.00		0.00
	05/19/80	4008087	0.00		0.00
	05/19/80	4008088	0.00		0.00
	05/19/80	4008089	0.00		0.00
4008091A	05/19/80	Mod. scrubber serving SG 4008091	0.00		0.00
4008167	05/19/80	62.5 MM BTU/hr steam generator			0.00
4008167A	05/19/80	PM/SO2 scrubber	0.00		0.00
4008168	05/19/80	62.5 MM BTU/hr C E Natco steam generator			0.00
4008169	05/19/80	62.5 MM BTU/hr C E Natco steam generator			0.00
4008170	05/19/80	62.5 MM BTU/hr C E Natco steam generator			0.00
4008171	05/19/80	62.5 MM BTU/hr C E Natco steam generator			0.00
4008172	05/19/80	27.5 MM BTU/hr Struthers steam generator			0.00
4008173	05/19/80	27.5 MM BTU/hr C E Natco steam generator			0.00
4008174	05/19/80	62.5 MM BTU/hr Struthers steam generator			0.00
4008175	05/19/80	62.5 MM BTU/hr Struthers steam generator			0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008176	05/19/80	62.5 MM BTU/hr Struthers steam generator			0.00
4008177	05/19/80	62.5 MM BTU/hr Struthers steam generator			0.00
4008177A	05/19/80	PM/SO2 scrubber	0.00		0.00
4008178	05/19/80	62.5 MM BTU/hr Struthers steam generator			0.00
		**** These Authorities to Construct remain invalid until particulate offset			0.00
					0.00
4008317B	05/19/80	Modify TEOR Operation serving 62 wells	-263.38	263.38	0.00
4008318A	05/19/80	Modify TEOR Operation serving 37 wells	-414.60	278.73	-135.87
4008319B	05/19/80	Modify TEOR Operation serving 53 wells	-457.01	399.26	-193.62
4008343B	05/19/80	Modify TEOR Operation serving 111 wells	-882.29	836.19	-239.73
4008345A	05/19/80	Modify TEOR Operation serving 38 wells	-69.84	69.84	-239.73
4008346B	05/19/80	Modify TEOR Operation serving 22 wells	-295.00	165.73	-369.00
4008347B	05/19/80	Modify TEOR Operation serving 40 wells	-103.18	103.18	-369.00
4008349C	05/19/80	Modify TEOR Operation serving 40 wells	-567.14	301.33	-634.81
4880350A	05/19/80	Modify TEOR Operation serving 41 wells	-397.78	308.86	-723.73
4008351A	05/19/80	Modify TEOR Operation serving 31 wells	-403.55		-1127.28
4008352B	05/19/80	Modify TEOR Operation serving 66 wells	-567.05		-1694.33
4008353A	05/19/80	Modify TEOR Operation serving 53 wells	-580.00		-2274.33
4008354A	05/19/80	Modify TEOR Operation serving 63 wells	-721.77		-2996.10
4008357A	05/19/80	Modify TEOR Operation serving 18 wells	-112.50		-3108.60
4008359B	05/19/80	Modify TEOR Operation serving 4 wells	-60.00		-3168.60
4008371	05/19/80	TEOR Operation serving 24 wells	24.00		-3144.60
4008372	05/19/80	TEOR Operation serving 11 wells	7.20		-3137.40
4008319C	06/02/80	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008346C	06/02/80	TEOR Operation - add H2S scrubber			-3137.40
4008351B	06/02/80	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008070A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008071A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008072A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008073A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008074A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008075A	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008091A/B	07/14/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008032A	07/29/80	PM/SO2 scrubber modification	0.00		-3137.40
4008081A	07/29/80	PM/SO2 scrubber modification	0.00		-3137.40
4008077C	08/15/80	Revise conditions of approval	0.00		-3137.40
4008031A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008032B	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008033A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008065D	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008066A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008080A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008081C	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008082A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008083A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008084A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008085B	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008086A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008087A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008088A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008089A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008090A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008092A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008151A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008171A	09/15/80	O2 controller for Rule 425 compliance	0.00		-3137.40
4008213B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00		-3137.40
4008215B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00		-3137.40
4008317C	10/09/80	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008318B	10/09/80	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008034C	10/29/80	Retrofit Low-NOx PCC burner	0.00		-3137.40
4008077D	11/13/80	O2 analyzer/controller	0.00		-3137.40
4008077E	11/15/80	PM/SO2 scrubber substitution	0.00		-3137.40
4008350B	02/12/81	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008352B	02/12/81	TEOR Operation - add H2S scrubber	0.00		-3137.40
4008346D	02/13/81	TEOR Operation - add 3 wells	7.50		-3129.90
4008349D	02/17/81	TEOR Operation - add 2 wells	-21.60		-3151.50
4008026A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008027A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008028A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008070B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008071B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008072B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008073B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008074B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008075B	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008077F	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008078A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008079A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008091C	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008096A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008097A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008098A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008099A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008102A	02/23/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008213C	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008214A	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008215C	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008216B	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008218A	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008225B	03/11/81	O2 controller for Rule 425 compliance	0.00		-3151.50
4008228A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00		-3151.50
4008249A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00		-3151.50
4008078B	06/12/81	PM/SO2 Scrubber substitution	0.00		-3151.50
4008350C	06/18/81	TEOR Operation - add 1 well	2.50		-3149.00
4008317D	07/01/81	TEOR Operation - modify H2S scrubber	0.00		-3149.00
4008031B	07/22/81	Retrofit scrubber to 2 existing SG's			-3149.00
		4008031	0.00		-3149.00
		4008090	0.00		-3149.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008032C	07/22/81	Mod. scrubber for Rule 424 compliance	0.00		-3149.00
4008081E	07/22/81	Mod. scrubber for Rule 424 compliance	0.00		-3149.00
4008804	07/22/81	Soda ash storage storage silo	0.00		-3149.00
4008805	07/22/81	Soda ash storage storage silo	0.00		-3149.00
4008806	07/22/81	Soda ash storage storage silo	0.00		-3149.00
4008370	09/04/81	TEOR Operation serving 44 wells	-83.40		-3232.40
4008317E	10/14/81	TEOR Operation - change well listing	0.00		-3232.40
4008318C	10/14/81	TEOR Operation - change well listing	0.00		-3232.40
4008350D	10/14/81	TEOR Operation - change well listing	0.00		-3232.40
4008349E	10/14/81	TEOR Operation - add 3 wells	7.50		-3224.90
4008183A	10/22/81	O2 controller for Rule 425 compliance	0.00		-3224.90
4008184A	10/22/81	O2 controller for Rule 425 compliance	0.00		-3224.90
4008185A	10/22/81	O2 controller for Rule 425 compliance	0.00		-3224.90
4008186A	10/22/81	O2 controller for Rule 425 compliance	0.00		-3224.90
4008218B	10/23/81	Flue gas scrubber substitution	0.00		-3224.90
4008184B	10/27/81	PM/SO2 scrubber for Rule 424 compliance	0.00		-3224.90
4008809	10/27/81	Soda ash storage storage silo	0.00		-3224.90
4008319D	12/09/81	Modify TEOR Operation	-12.50		-3237.40
4008346E	12/23/81	Modify TEOR Operation	0.00		-3237.40
4008232A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008233A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008234A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008235A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008236A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008237A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008238A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008239A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008240A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008241A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008242A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008243A	01/11/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008350D	02/05/82	Modify TEOR Operation			-3237.40
4008218C	02/19/82	O2 controller for Rule 425 compliance	0.00		-3237.40
4008810	03/08/82	Gas fired cogeneration system	24.96		-3187.44
4008811	03/08/82	Gas fired cogeneration system	24.96		-3187.48
4008812	03/08/82	Gas fired cogeneration system	24.96		-3162.52
4008813	03/08/82	Gas fired cogeneration system	24.96		-3137.56
4008814	03/08/82	Gas fired cogeneration system	24.96		-3112.60
4008815	03/08/82	Gas fired cogeneration system	24.96		-3087.64
4008816	03/08/82	Gas fired cogeneration system	24.96		-3062.68
4008817	03/08/82	Gas fired cogeneration system	24.96		-3037.72
4008034D	04/09/82	NOx limit for Rule 425 compliance	0.00		-3037.72
4008086B	04/09/82	NOx limit for Rule 425 compliance			-3037.72
4008087B	04/09/82	NOx limit for Rule 425 compliance			-3037.72
4008088B	04/09/82	NOx limit for Rule 425 compliance			-3037.72
4008089B	04/09/82	NOx limit for Rule 425 compliance			-3037.72
4008090B	04/09/82	NOx limit for Rule 425 compliance			-3037.72
4008382D	04/19/82	Modify TEOR operation	0.00		-3037.72
4008384C	04/19/82	Modify TEOR operation	0.00		-3037.72

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008385C	04/19/82	Modify TEOR operation	0.00		-3037.72
4008386C	04/19/82	Modify TEOR operation	0.00		-3037.72
4008059B	06/17/82	25.0 MM BTU/hr replacement S. G.	2.46		-3035.26
	06/17/82	Surrender Permit to Operate 4008026	-2.77		-3036.03
4008386C	11/05/82	Modify TEOR operation; add H2S scrubber	0.00		-3038.03
4008350E	01/12/83	TEOR Operation - change well listing	0.00		-3038.03
4008385D	06/13/83	Modify TEOR operation; add H2S scrubber	0.00		-3038.03
4008346F	08/16/83	Modify TEOR Operation	44.10		-2993.93
4008385E	09/07/83	Modify TEOR operation; replace compressor	0.00		-2993.93
4008810A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008811A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008812A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008813A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008814A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008815A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008816A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008817A	10/06/83	Increase cogenerator CO emission limit	0.00		-2993.93
4008384D	12/05/83	Modify TEOR Operation; add 3 wells			-2993.93
4008347C	01/02/84	Modify TEOR Operation	2.14		-2991.79
4008382F	01/03/84	Modify TEOR Operation; remove compressor	0.00		-2991.79
4008375	01/30/84	TEOR Operation replacing 4008357 & 371	0.00		-2991.79
4008436A	02/13/84	Modify tank setting vapor recovery system	0.00		-2991.79
4008384E	04/04/84	Modify TEOR Operation			-2991.79
4008385F	05/23/84	Modify TEOR Operation H2S scrubbing syst.	0.00		-2991.79
4008384F	06/18/84	Modify TEOR Operation	20.20		-2971.59
4008070C	06/29/84	Change S. G. fuel sulfur limit	0.00		-2971.59
4008071C	06/29/84	Change S. G. fuel sulfur limit	0.00		-2971.59
4008072C	06/29/84	Change S. G. fuel sulfur limit	0.00		-2971.59
4008073C	06/29/84	Change S. G. fuel sulfur limit	0.00		-2971.59
4008074C	06/29/84	Change S. G. fuel sulfur limit	0.00		-2971.59
4008031C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008032D	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008033B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008065E	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008077F	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008078C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008080B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008081F	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008082B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008083B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008084B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008085D	11/14/84	Set Rule 424 sulfur limit for this S. G.			-2971.59
4008086C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008087C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008088C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008089C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008090C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008093A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008094A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008095A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008150A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008184C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008185B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008186B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00		-2971.59
4008384G	12/12/84	Mod. TEOR Operation: add 10 wells	51.64		-2919.95
4008385G	12/12/84	Mod. TEOR Operation: add 18 wells	2.34		-2917.61
4008386G	12/12/84	Mod. TEOR Operation: add 14 wells	1.82		-2915.79
4008377	01/03/85	TEOR Operation serving wells	179.00		-2736.79
4008225C	05/29/85	Limit steam generator fuel consumption	-0.50		-2737.29
	05/29/85	Excess Gulf Rule 424 emission reductions			-2737.29
4008318D	06/12/85	Mod. TEOR Operation: add 20 wells			-2737.29
4008384H	06/22/85	Mod. TEOR Operation: add 1 well	3.14		-2734.15
4008814C	06/25/85	Modify cogeneration fuel supply	0.00		-2734.15
4008815C	06/25/85	Modify cogeneration fuel supply	0.00		-2734.15
4008816C	06/25/85	Modify cogeneration fuel supply	0.00		-2734.15
4008817C	06/25/85	Modify cogeneration fuel supply	0.00		-2734.15
4008382	06/28/85	TEOR Operation serving 107 S. D. wells	219.80		-2514.35
4008031D	07/22/85	Revise PM emission sampling limit			-2514.35
4008032E	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008033C	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008080C	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008081G	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008082C	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008083C	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008084C	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008086D	07/22/85	Revise PM emission sampling limit			-2514.35
4008087D	07/22/85	Revise PM emission sampling limit			-2514.35
4008088D	07/22/85	Revise PM emission sampling limit			-2514.35
4008089D	07/22/85	Revise PM emission sampling limit			-2514.35
4008090D	07/22/85	Revise PM emission sampling limit			-2514.35
4008093B	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008094B	07/22/85	Revise PM emission sampling limit	0.00		-2514.35
4008814B	07/22/85	Add water injection NOx control system	0.00		-2514.35
4008815B	07/22/85	Add water injection NOx control system	0.00		-2514.35
4008816B	07/22/85	Add water injection NOx control system	0.00		-2514.35
4008817B	07/22/85	Add water injection NOx control system	0.00		-2514.35
4008819	07/22/85	Natural gas fired cogeneration system	14.00		-2500.35
4008820	07/22/85	Natural gas fired cogeneration system	14.00		-2486.35
4008821	07/22/85	Natural gas fired cogeneration system	14.00		-2472.35
4008822	07/22/85	Natural gas fired cogeneration system	14.00		-2458.35
	07/22/85	Excess Rule 424 sulfur compound reductions			-2458.35
4008066D	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008070E	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008071E	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008072E	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008073E	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008074E	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35
4008092B	07/22/85	Retrofit Lo-NOx burner assembly	0.00		-2458.35

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct [issued After 9/12/79]

A to C No.	Issue Date	Project Description	HC lbw/day	Reestab Offsets	HC Summation
4008810B	07/22/85	Add water injection NOx control system	0.00		-2458.35
4008811B	07/22/85	Add water injection NOx control system	0.00		-2458.35
4008812B	07/22/85	Add water injection NOx control system	0.00		-2458.35
4008813B	07/22/85	Add water injection NOx control system	0.00		-2458.35
4008819A	07/22/85	Authorise alternate location	0.00		-2458.35
4008820A	07/22/85	Authorise alternate location	0.00		-2458.35
4008823	07/22/85	Natural gas fired cogeneration system	13.97		-2444.38
4008824	07/22/85	Natural gas fired cogeneration system	13.97		-2430.41
4008825	07/22/85	Natural gas fired cogeneration system	13.97		-2416.44
4008826	07/22/85	Natural gas fired cogeneration system	13.97		-2402.47
4008827	07/22/85	Natural gas fired cogeneration system	13.97		-2388.50
4008828	07/22/85	Natural gas fired cogeneration system	13.97		-2374.53
4008829	07/22/85	Natural gas fired cogeneration system	13.97		-2360.56
4008384H	07/22/85	Modify TEOR operation: add 1 well	3.14		-2357.42
4008378	08/26/85	New TEOR operation # 52 serving 20 wells	103.62		-2253.80
4008317F	08/27/85	Revise TEOR operation's well roster	-81.60		-2335.40
4008318E	08/27/85	Revise TEOR operation's well roster	69.10		-2266.30
4008346G	08/27/85	Revise TEOR operation's well roster	0.00		-2266.30
4008347D	08/27/85	Revise TEOR operation's well roster	-32.80		-2299.10
4008349G	08/27/85	Revise TEOR operation's well roster	-244.70		-2543.80
4008350F	08/27/85	Revise TEOR operation's well roster	-63.20		-2607.00
4008351C	08/27/85	Revise TEOR operation's well roster	-42.60		-2649.60
4008352C	08/27/85	Revise TEOR operation's well roster	-26.00		-2675.60
4008370A	08/27/85	Revise TEOR operation's well roster	0.00		-2675.60
4008375A	08/27/85	Revise TEOR operation's well roster	0.00		-2675.60
4008093C	08/30/85	Relocate steam gen. without scrubber	0.00		-2675.60
4008094C	08/30/85	Relocate steam gen. without scrubber	0.00		-2675.60
4008379	08/30/85	New TEOR operation serving 20 wells	62.80		-2612.80
4008213D		Revise auth. emission sampling limits			-2612.80
4008218D		Revise auth. emission sampling limits			-2612.80
4008219D		Revise auth. emission sampling limits			-2612.80
4008220B		Revise auth. emission sampling limits			-2612.80
4008225B		Revise auth. emission sampling limits			-2612.80
4008031E	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner			-2612.80
4008032F	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008033D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008065F	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008077H	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008080D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008081H	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008082D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008083D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008084D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008085E	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner			-2612.80
4008091D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008093D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008094D	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008095B	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008151B	02/05/86	Install W. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008167B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008168A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008169A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008170A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008171B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008174A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008175A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008176A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008177B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008178A	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner			-2612.80
4008184D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008185C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008186C	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00		-2612.80
4008384I	02/20/86	Replace air cooled heat exchanger	0.00		-2612.80
4008070F	02/25/86	Increase steam gen. HC emission limits	8.91		-2603.89
4008071F	02/25/86	Increase steam gen. HC emission limits	8.91		-2594.98
4008072F	02/25/86	Increase steam gen. HC emission limits	8.91		-2586.07
4008073F	02/25/86	Increase steam gen. HC emission limits	8.91		-2577.16
4008074F	02/25/86	Increase steam gen. HC emission limits	8.91		-2568.25
4008085F	04/08/86	Change of location	0.00		-2568.25
4008031G	04/08/86	Change of location	0.00		-2568.25
4008031F	04/08/86	Change of location	0.00		-2568.25
4008085G	04/08/86	Change of location	0.00		-2568.25
4008086E	04/08/86	Change of location	0.00		-2568.25
4008086F	04/08/86	Change of location	0.00		-2568.25
4008087E	04/08/86	Change of location	0.00		-2568.25
4008087F	04/08/86	Change of location	0.00		-2568.25
4008088E	04/08/86	Change of location	0.00		-2568.25
4008088F	04/08/86	Change of location	0.00		-2568.25
4008089E	04/08/86	Change of location	0.00		-2568.25
4008089F	04/08/86	Change of location	0.00		-2568.25
4008090E	04/08/86	Change of location	0.00		-2568.25
4008090F	04/08/86	Change of location	0.00		-2568.25
4008451	05/01/86	Tank battery vapor recovery system	0.00		-2568.25
4008092C	08/14/86	Modify steam generator cond. of approval	0.00		-2568.25
4008151C	08/14/86	Modify steam generator cond. of approval	0.00		-2568.25
4008318F	09/15/86	Modify TEOR operation;	15.24		-2553.01
4008347E	09/15/86	Modify TEOR operation;	138.88		-2414.13
4008350G	09/15/86	Modify TEOR operation;	19.44		-2394.69
4008351D	09/15/86	Modify TEOR operation;	21.44		-2373.25
4008319E	09/26/86	Modify TEOR operation; add 23 wells	62.36		-2310.89
4008349H	10/27/86	Modify TEOR operation; add 12 wells	37.66		-2273.23
4008317H	10/28/86	Modify TEOR operation; add 14 wells	43.96		-2229.27
4008352E	10/29/86	Modify TEOR operation; add 11 wells	34.54		-2194.73
4008027B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008028B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008031H	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008032G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008033E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Keestab Offsets	HC Summation
4008034E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008059C	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008065G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008066C	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008069A	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008070G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008071G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008072G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008073G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008074G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008075D	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008077I	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008078D	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008079B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008080F	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008081I	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008082E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008083E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008084E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008085J	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008086G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008087G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008088G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008089G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008090G	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008091H	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008092D	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008093E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008094E	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008095C	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008096B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008097B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008098B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008099B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008100A	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008101A	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008102B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008150B	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008151D	04/10/87	Change S. G. conditions of approval	0.00		-2194.73
4008167C	04/10/87	Change S. G. conditions of approval	6.40		-2168.33
4008168B	04/10/87	Change S. G. conditions of approval	6.60		-2181.73
4008169B	04/10/87	Change S. G. conditions of approval	6.60		-2175.13
4008170B	04/10/87	Change S. G. conditions of approval	6.60		-2168.53
4008171C	04/10/87	Change S. G. conditions of approval	6.60		-2161.93
4008174B	04/10/87	Change S. G. conditions of approval	6.60		-2155.33
4008175B	04/10/87	Change S. G. conditions of approval	6.60		-2148.73
4008176B	04/10/87	Change S. G. conditions of approval	6.60		-2142.13
4008177C	04/10/87	Change S. G. conditions of approval	6.60		-2135.53
4008178B	04/10/87	Change S. G. conditions of approval	6.60		-2128.93

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008179A	04/10/87	Change S. G. conditions of approval	0.00		-2128.93
4008184E	04/10/87	Change S. G. conditions of approval	0.00		-2128.93
4008185D	04/10/87	Change S. G. conditions of approval	0.00		-2128.93
4008186D	04/10/87	Change S. G. conditions of approval	0.00		-2128.93
4008213E	04/10/87	Change S. G. conditions of approval	-1.25		-2130.18
4008214B	04/10/87	Change S. G. conditions of approval	-1.25		-2131.43
4008215D	04/10/87	Change S. G. conditions of approval	-1.25		-2132.68
4008216C	04/10/87	Change S. G. conditions of approval	-1.25		-2133.93
4008218E	04/10/87	Change S. G. conditions of approval	-1.25		-2135.18
4008219E	04/10/87	Change S. G. conditions of approval	-2.55		-2137.73
4008220C	04/10/87	Change S. G. conditions of approval	-2.55		-2140.28
4008225E	04/10/87	Change S. G. conditions of approval	-1.02		-2141.30
4008228B	04/10/87	Change S. G. conditions of approval	-1.68		-2142.98
4008232B	04/10/87	Change S. G. conditions of approval	-1.25		-2144.23
4008233B	04/10/87	Change S. G. conditions of approval	-1.25		-2145.48
4008234B	04/10/87	Change S. G. conditions of approval	-1.25		-2146.73
4008235B	04/10/87	Change S. G. conditions of approval	-1.25		-2147.98
4008236B	04/10/87	Change S. G. conditions of approval	-1.25		-2149.23
4008237B	04/10/87	Change S. G. conditions of approval	-1.25		-2150.48
4008238B	04/10/87	Change S. G. conditions of approval	-1.25		-2151.73
4008239B	04/10/87	Change S. G. conditions of approval	-1.25		-2152.98
4008240B	04/10/87	Change S. G. conditions of approval	-1.25		-2154.23
4008241B	04/10/87	Change S. G. conditions of approval	-1.25		-2155.48
4008242B	04/10/87	Change S. G. conditions of approval	-2.55		-2158.03
4008243B	04/10/87	Change S. G. conditions of approval	-1.25		-2159.28
4008249B	04/10/87	Change S. G. conditions of approval	-1.40		-2160.68
4008810C	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008811C	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008812C	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008813C	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008814D	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008815D	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008816D	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008817D	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008819B	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008820B	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008821A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008822A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008823A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008824A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008825A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008826A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008827A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008828A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
4008829A	04/10/87	Change cogen. conditions of approval	0.00		-2160.68
	04/10/87	Surrender Permit to Operate # 4008183	-1.89		-2162.57
	04/10/87	Surrender Permit to Operate # 4008187	-2.15		-2164.72
4008810D	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008811D	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbw/day	Reestab Offsets	HC Summation
4008812D	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008813D	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008814E	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008815E	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008816E	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008817E	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008819C	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008820C	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008821B	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008822B	05/01/87	Change cogen. monitoring requirements	0.00		-2164.72
4008070I	05/05/87	Modify scrubber liquor recirculation	0.00		-2164.72
4008071I	05/05/87	Modify scrubber liquor recirculation	0.00		-2164.72
4008072I	05/05/87	Modify scrubber liquor recirculation	0.00		-2164.72
4008073I	05/05/87	Modify scrubber liquor recirculation	0.00		-2164.72
4008074I	05/05/87	Modify scrubber liquor recirculation	0.00		-2164.72
4008092E	05/20/87	Adjust ESL's to 424 requirements	0.00		-2164.72
4008151F	05/20/87	Adjust ESL's to 424 requirements	0.00		-2164.72
4008070H	05/21/87	Allow use of soda ash for scrubber	0.00		-2164.72
4008071H	05/21/87	Allow use of soda ash for scrubber	0.00		-2164.72
4008072H	05/21/87	Allow use of soda ash for scrubber	0.00		-2164.72
4008073H	05/21/87	Allow use of soda ash for scrubber	0.00		-2164.72
4008074H	05/21/87	Allow use of soda ash for scrubber	0.00		-2164.72
4008482	05/21/87	Soda ash storage silo	0.00		-2164.72
4008073H	05/22/87	Mod. S. G. conditions of approval	0.00		-2164.72
4008810E	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2141.68
4008811E	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2118.64
4008812E	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2095.60
4008813E	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2072.56
4008814F	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2049.52
4008815F	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2026.48
4008816F	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-2003.44
4008817F	06/30/87	Chng turbine PM, HC, & CO emission limits	23.04		-1980.40
4008819D	06/30/87	Chng turbine PM, HC, & CO emission limits	33.04		-1947.36
4008820D	06/30/87	Chng turbine PM, HC, & CO emission limits	33.04		-1914.32
4008821C	06/30/87	Chng turbine PM, HC, & CO emission limits	33.04		-1881.28
4008822C	06/30/87	Chng turbine PM, HC, & CO emission limits	33.04		-1848.24
4008823B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1815.17
4008824B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1782.10
4008825B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1749.03
4008826B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1715.96
4008827B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1682.89
4008828B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1649.82
4008829B	06/30/87	Chng turbine PM, HC, & CO emission limits	33.07		-1616.75
4008502	07/28/87	LPG truck unloading rack	24.12		-1592.63
4008503	07/28/87	LPG truck unloading rack	24.12		-1568.51
4008377A	09/03/87	TEDR modification: add 18 wells	56.52		-1511.99
4008027C	09/29/87	Increase steam generator HC ESL's	4.18		-1507.81
4008028C	09/29/87	Increase steam generator HC ESL's	4.18		-1503.63
4008031E	09/29/87	Increase steam generator HC ESL's	8.96		-1494.67

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	Reestab Offsets	HC Summation
4008032H	09/29/87	Increase steam generator HC ESL's	8.96		-1485.71
4008033F	09/29/87	Increase steam generator HC ESL's	8.96		-1476.75
4008034F	09/29/87	Increase steam generator HC ESL's	8.96		-1467.79
4008059D	09/29/87	Increase steam generator HC ESL's	4.30		-1463.49
4008065H	09/29/87	Increase steam generator HC ESL's	8.96		-1454.53
4008066F	09/29/87	Increase steam generator HC ESL's	8.96		-1445.57
4008069B	09/29/87	Increase steam generator HC ESL's	4.25		-1441.32
4008075E	09/29/87	Increase steam generator HC ESL's	4.25		-1437.07
4008077J	09/29/87	Increase steam generator HC ESL's	8.96		-1428.11
4008078E	09/29/87	Increase steam generator HC ESL's	4.25		-1423.86
4008079C	09/29/87	Increase steam generator HC ESL's	4.25		-1419.61
4008080G	09/29/87	Increase steam generator HC ESL's	8.96		-1410.65
4008081J	09/29/87	Increase steam generator HC ESL's	8.96		-1401.69
4008082F	09/29/87	Increase steam generator HC ESL's	8.96		-1392.73
4008083F	09/29/87	Increase steam generator HC ESL's	8.96		-1383.77
4008084E	09/29/87	Increase steam generator HC ESL's	8.96		-1374.81
4008085K	09/29/87	Increase steam generator HC ESL's	8.96		-1365.85
4008086I	09/29/87	Increase steam generator HC ESL's	8.96		-1356.89
4008087I	09/29/87	Increase steam generator HC ESL's	8.96		-1347.93
4008088I	09/29/87	Increase steam generator HC ESL's	8.96		-1338.97
4008089I	09/29/87	Increase steam generator HC ESL's	8.96		-1330.01
4008090I	09/29/87	Increase steam generator HC ESL's	8.96		-1321.05
4008091J	09/29/87	Increase steam generator HC ESL's	8.96		-1312.09
4008092G	09/29/87	Increase steam generator HC ESL's	8.96		-1303.13
4008093G	09/29/87	Increase steam generator HC ESL's	8.96		-1294.17
4008094G	09/29/87	Increase steam generator HC ESL's	8.96		-1285.21
4008095E	09/29/87	Increase steam generator HC ESL's	8.96		-1276.25
4008096C	09/29/87	Increase steam generator HC ESL's	4.92		-1271.33
4008097C	09/29/87	Increase steam generator HC ESL's	4.92		-1266.41
4008098C	09/29/87	Increase steam generator HC ESL's	4.92		-1261.49
4008099C	09/29/87	Increase steam generator HC ESL's	4.92		-1256.57
4008100B	09/29/87	Increase steam generator HC ESL's	4.25		-1252.32
4008101B	09/29/87	Increase steam generator HC ESL's	4.25		-1248.07
4008102C	09/29/87	Increase steam generator HC ESL's	4.92		-1243.15
4008150C	09/29/87	Increase steam generator HC ESL's	4.25		-1238.90
4008151G	09/29/87	Increase steam generator HC ESL's	8.96		-1229.94
4008167D	09/29/87	Increase steam generator HC ESL's	8.96		-1220.98
4008168D	09/29/87	Increase steam generator HC ESL's	8.76		-1212.22
4008170C	09/29/87	Increase steam generator HC ESL's	8.76		-1203.46
4008171D	09/29/87	Increase steam generator HC ESL's	8.76		-1194.70
4008172A	09/29/87	Increase steam generator HC ESL's	4.31		-1190.39
4008173A	09/29/87	Increase steam generator HC ESL's	4.31		-1186.09
4008174C	09/29/87	Increase steam generator HC ESL's	8.76		-1177.32
4008175C	09/29/87	Increase steam generator HC ESL's	8.76		-1168.56
4008176C	09/29/87	Increase steam generator HC ESL's	8.76		-1159.80
4008177D	09/29/87	Increase steam generator HC ESL's	8.76		-1151.04
4008178C	09/29/87	Increase steam generator HC ESL's	8.76		-1142.28
4008179B	09/29/87	Increase steam generator HC ESL's	4.25		-1138.03
4008184F	09/29/87	Increase steam generator HC ESL's	8.96		-1129.07

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbw/day	Reestab Offsets	HC Summation
4008185E	09/29/87	Increase steam generator HC ESL's	8.96		-1120.11
4008186E	09/29/87	Increase steam generator HC ESL's	8.96		-1111.15
4008195A	09/29/87	Increase steam generator HC ESL's	4.38		-1106.77
4008202B	09/29/87	Increase steam generator HC ESL's	4.38		-1102.39
4008203A	09/29/87	Increase steam generator HC ESL's	4.38		-1098.01
4008204A	09/29/87	Increase steam generator HC ESL's	4.38		-1093.63
4008205A	09/29/87	Increase steam generator HC ESL's	4.38		-1089.25
4008206A	09/29/87	Increase steam generator HC ESL's	4.38		-1084.87
4008207A	09/29/87	Increase steam generator HC ESL's	4.38		-1080.49
4008208A	09/29/87	Increase steam generator HC ESL's	4.38		-1076.11
4008213G	09/29/87	Increase steam generator HC ESL's	4.92		-1071.19
4008214D	09/29/87	Increase steam generator HC ESL's	4.92		-1066.27
4008215F	09/29/87	Increase steam generator HC ESL's	4.92		-1061.35
4008216E	09/29/87	Increase steam generator HC ESL's	4.92		-1056.43
4008218G	09/29/87	Increase steam generator HC ESL's	4.92		-1051.51
4008219G	09/29/87	Increase steam generator HC ESL's	8.91		-1042.60
4008220E	09/29/87	Increase steam generator HC ESL's	8.91		-1033.69
4008225G	09/29/87	Increase steam generator HC ESL's	4.15		-1029.54
4008228D	09/29/87	Increase steam generator HC ESL's	3.84		-1025.70
4008232D	09/29/87	Increase steam generator HC ESL's	4.92		-1020.78
4008233C	09/29/87	Increase steam generator HC ESL's	4.92		-1015.86
4008234C	09/29/87	Increase steam generator HC ESL's	4.92		-1010.94
4008235C	09/29/87	Increase steam generator HC ESL's	4.92		-1006.02
4008236C	09/29/87	Increase steam generator HC ESL's	4.92		-1001.10
4008237C	09/29/87	Increase steam generator HC ESL's	4.92		-996.18
4008238C	09/29/87	Increase steam generator HC ESL's	4.92		-991.26
4008239C	09/29/87	Increase steam generator HC ESL's	4.92		-986.34
4008240C	09/29/87	Increase steam generator HC ESL's	4.92		-981.42
4008241C	09/29/87	Increase steam generator HC ESL's	4.92		-976.50
4008242D	09/29/87	Increase steam generator HC ESL's	8.91		-967.59
4008243D	09/29/87	Increase steam generator HC ESL's	4.92		-962.67
4008249D	09/29/87	Increase steam generator HC ESL's	4.92		-957.75
4008285A	09/29/87	Increase steam generator HC ESL's	4.38		-953.37
4008286A	09/29/87	Increase steam generator HC ESL's	4.38		-948.99
4008289A	09/29/87	Increase steam generator HC ESL's	4.38		-944.61
4008070K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008071K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008072K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008073K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008074K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008075F	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008077K	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008078F	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008091L	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008091M	09/29/87	Increase steam generator HC ESL's	0.00		-944.61
4008319F	10/08/87	Modification of existing TBOR operation	100.48		-844.13

38

Chevron U. S. A. Western Stationary Source (Heavy)

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
Total adjustments from 9/12/79 to 6/22/87 =			-3570.62	
Rule 210.1 6/22/87 rule change adjustments =			3570.62	

*Chevron is not proposing to reestablish reductions after 6/22/87

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
			0.00	0.00
			0.00	0.00
4008066E	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008070J	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008071J	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008072J	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008073J	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008074J	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008092F	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008213F	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008214C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008215E	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008216D	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008218F	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008219F	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008220D	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008225F	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008228C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008232C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008242C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008243C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008249C	10/29/87	Modify S. G. conditions of approval	0.00	0.00
4008810F	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008811F	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008812F	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008813F	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008823C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008824C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008825C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008826C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008827C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008828C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008829C	10/29/87	Modify cogen. conditions of approval	0.00	0.00
4008086J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008086K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008087J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008087K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008088J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008088K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008089J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008089K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008090J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008090K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008091K	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008091N	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008091P	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008093H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008093I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008094H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008094I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008095F	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008095G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008151H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008151I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008151J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008810G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008811G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008812G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008813G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008814G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008815G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008816G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008817G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00
4008484		Permit existing unpermitted tank		0.00
4008485		Permit existing unpermitted tank		0.00
4008486		Permit existing unpermitted tank		0.00
4008487		Permit existing unpermitted tank		0.00
4008488		Permit existing unpermitted tank		0.00
4008220F	05/23/88	Steam generator transfer of location	0.00	0.00
4008489		Permit existing unpermitted tank		0.00
4008490		Permit existing unpermitted tank		0.00
4008491		Permit existing unpermitted tank		0.00
4008492		Permit existing unpermitted tank		0.00
4008493		Permit existing unpermitted tank		0.00
4008494		Permit existing unpermitted tank		0.00
4008495		Permit existing unpermitted tank		0.00
4008098D	08/17/88	Add multiple locations for steam gen.	0.00	0.00
4008496	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00
4008497	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00
4008347F	10/19/88	TEOR modification: change vapor cont. sys.	0.00	0.00
4008451A	10/19/88	Tank bat. mod.: change vapor cont. sys.	0.00	0.00
4008171E	10/28/88	Revise conditions of approval	0.00	0.00
4008096D	01/18/89	Convert S. G. to gas firing	0.00	0.00
4008213H	01/18/89	Convert S. G. to gas firing	0.00	0.00
4008504	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008505	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008506	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008507	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008508	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008509	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008510	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00
4008511	02/24/89	5,000 bbl capacity FWKO tank # T-1	0.84	0.84
4008512	02/24/89	2,000 bbl capacity LACT tank # T-2	0.81	1.65
4008513	02/24/89	2,000 bbl capacity reject tank # T-3	0.09	1.74

*Chevron is not proposing to reestablish reductions after 6/22/87

40

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008514	02/24/89	1,000 bbl capacity slop oil tank # T-4	0.08	1.82
4008515	02/24/89	3,000 bbl capacity waste water tank # T-5	0.04	1.86
4008516	02/24/89	Heater treater # V-1	0.00	1.86
4008517	02/24/89	Heater treater # V-2	0.00	1.86
4008518	02/24/89	WEMCO air flotation unit # W-1	12.34	14.20
4008519	03/01/89	5,000 bbl capacity FWKO tank # T-1	0.18	14.38
4008520	03/01/89	5,000 bbl capacity FWKO tank # T-2	0.73	15.11
4008521	03/01/89	10,000 bbl capacity wash tank # T-3	0.00	15.11
4008522	03/01/89	10,000 bbl capacity wash tank # T-4	0.10	15.21
4008523	03/01/89	2,000 bbl capacity LACT tank # T-5	0.86	16.07
4008524	03/01/89	2,000 bbl capacity reject tank # T-6	0.06	16.13
4008525	03/01/89	1,000 bbl capacity slop oil tank # T-1	0.06	16.19
4008526	03/01/89	WEMCO air flotation unit # W-1	2.43	18.62
4008092H	03/07/89	S. G. modification; incinerate H2S	0.00	18.62
4008151K	03/07/89	S. G. modification; incinerate H2S	0.00	18.62
4008171F	03/07/89	S. G. modification; incinerate H2S	0.00	18.62
4008031K	04/08/89	Transfer of Location	0.00	18.62
4008088L	04/08/89	Transfer of Location	0.00	18.62
4008384J	07/12/89	TEOR Modification, Add K.O.	0.23	18.85
4008070L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	18.85
4008071L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	18.85
4008072L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	18.85
4008073L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	18.85
4008074L	10/02/89	Allow Spent Caustic As Scrubber Additive	0.00	18.85
4008080H	10/09/89	S.G. Modifications	0.00	18.85
4008081G	10/09/89	S.G. Modifications	0.00	18.85
4008082G	10/09/89	S.G. Modifications	0.00	18.85
4008317I	10/09/89	TEOR Modifications	0.00	18.85
4008350H	10/09/89	TEOR Modifications	0.00	18.85
4008352F	10/09/89	TEOR Modifications	0.00	18.85
4008091P	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008093H	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008093I	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008094H	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008094I	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008095F	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008095G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008151H	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008151I	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008151J	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008810G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008811G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008812G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008813G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008814G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008815G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008816G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008817G	11/04/89	Modify NOX Offset Requirements	0.00	18.85
4008377B	01/17/90	TEOR Change Conditions	0.00	18.85

*Chevron is not proposing to reestablish reductions after 6/22/87

41

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008077L	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008174D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008175D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008176D	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008219H	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008220G	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008393E	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008394C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008395C	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008396A	02/22/90	Lo-NOX Burners for Rule 425.1	0.00	18.85
4008832A				18.85
4008031N	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008085O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008086O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008087O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008088O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008089O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008090O	07/09/90	Reissue of ATC use SG TEOR Incineration	0.00	18.85
4008498	07/09/90	TEOR with 35 Wells	19.69	38.54
4008218H	07/13/90	Transfer of Location	0.00	38.54
4008225H	07/13/90	Transfer of Location	0.00	38.54
4008782A	09/27/90	SG Add Location	0.00	38.54
4008070M	10/08/90	Make Gas Fired only Add FGR	0.00	38.54
SSSA for 4008070M			0.00	38.54
4008071M	10/08/90	Make Gas Fired Only Add FGR	0.00	38.54
SSSA for 4008071M			0.00	38.54
4008072M	10/08/90	Make Gas Fired Only Add FGR	0.00	38.54
SSSA for 4008072M			0.00	38.54
4008073M	10/08/90	Make Gas Fired Only Add FGR	0.00	38.54
SSSA for 4008073M			0.00	38.54
4008074M	10/08/90	Make Gas Fired Only Add FGR	0.00	38.54
SSSA for 4008074M			0.00	38.54
4008032 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008032 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008033 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008033 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008065 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008065 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008077 M	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008077 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008077 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008077 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008080 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008080 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008080 K	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008081 L	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008081 M	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008081 N	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008081 O	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54

*Chevron is not proposing to reestablish reductions after 6/22/87

42

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008082 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008082 I	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008082 J	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008083 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008083 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008084 G	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008084 H	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008089 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008089 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008089 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008089 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008090 P	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008090 Q	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008090 R	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008090 S	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008202 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008202 D	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008203 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008203 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008204 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008204 C	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008396 B	10/10/90	Reissue of Permit, Transfer of Location	0.00	38.54
4008095 H	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008167 E	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008168 G	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008169 D	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008170 D	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008177 E	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008178 D	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008242 E	10/19/90	Reissue of Permit, Add BACT	0.00	38.54
4008531 A	10/19/90	Reissue of Permit	-1.76	36.78
4008532 A	10/19/90	Reissue of Permit	-1.76	35.02
4008001 D	02/27/90	Transfer of Location	0.00	35.02
4008092 I	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008151 L	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008171 G	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008174 E	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008175 E	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008176 E	11/05/90	Make Gas fired only with FGR	0.00	35.02
4008206 B	11/05/90	Make Gas fired only with FGR	0.00	35.02
	11/05/90	SSSA for this project is netted out	0.00	35.02
4008001 D	02/01/91	Add Location	0.00	35.02
4008032 K	02/14/91		0.00	35.02
4008033 I	02/14/91		0.00	35.02
4008082 K	02/14/91		0.00	35.02
4008083 I	02/14/91		0.00	35.02
4008084 I	02/14/91		0.00	35.02
4008088 P	02/14/91		0.00	35.02
4008195 B	02/14/91		0.00	35.02

*Chevron is not proposing to reestablish reductions after 6/22/87

43

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008285 C	02/14/91		0.00	35.02
4008286 C	02/14/91		0.00	35.02
	02/14/91	SSSA for this project	0.00	35.02
4008511 A	02/24/91	Increase Throughput	4.25	39.27
4008512 A	02/24/91	Increase Throughput	0.39	39.66
4008513 A	02/24/91	Increase Throughput	1.11	40.77
4008514 A	02/24/91	Increase Throughput	0.01	40.78
4008515 A	02/24/91	Increase Throughput	3.86	44.64
4008516 A	02/24/91	Change Operating Conditions	0.00	44.64
4008517 A	02/24/91	Change Operating Conditions	0.00	44.64
4008518 A	02/24/91	Increase Throughput Recalc	-11.85	32.79
4008519 A	03/01/91	Change operating throughput	8.02	40.81
4008520 A	03/01/91	Change operating throughput	8.02	48.83
4008521 A	03/01/91	Change operating throughput	2.52	51.35
4008522 A	03/01/91	Change operating throughput	2.52	53.87
4008523 A	03/01/91	Change operating throughput	0.35	54.22
4008524 A	03/01/91	Change operating throughput	1.63	55.85
4008525 A	03/01/91	Change operating throughput	0.01	55.86
4008091 Q	03/01/91	Replace O2 Controller	0.00	55.86
4008317 J	06/06/91	Add 80 Steam-Drive Wells	93.97	149.83
4008352 G	06/06/91	Add 80 Steam-Drive Wells	93.97	243.80
4008835	06/06/91	TEOR Operation Serving 250 Cyclical Wells	236.00	479.80
4008918	06/12/91	Paint Booth	20.71	500.51
4008549	06/19/91	10000 Bbl Sump Replacement Tank	0.00	500.51
4008550	06/19/91	10000 Bbl Sump Replacement Tank	0.00	500.51
4008551	06/19/91	6600 Bbl Sump Replacement Tank	0.00	500.51
4008552	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008553	06/19/91	5000 Bbl Sump Replacement Tank	0.00	500.51
4008554	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008555	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008556	06/19/91	500 Bbl Sump Replacement Tank	0.00	500.51
4008557	06/19/91	2000 Bbl Sump Replacement Tank	0.00	500.51
4008558	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008559	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008560	06/19/91	250 Bbl Sump Replacement Tank	0.00	500.51
4008561	06/19/91	250 Bbl Sump Replacement Tank	0.00	500.51
4008562	06/19/91	250 Bbl Sump Replacement Tank	0.00	500.51
4008563	06/19/91	6600 Bbl Sump Replacement Tank	0.00	500.51
4008564	06/19/91	6600 Bbl Sump Replacement Tank	0.00	500.51
4008565	06/19/91	500 Bbl Sump Replacement Tank	0.00	500.51
4008566	06/19/91	500 Bbl Sump Replacement Tank	0.00	500.51
4008567	06/19/91	10000 Bbl Sump Replacement Tank	0.00	500.51
4008568	06/19/91	10000 Bbl Sump Replacement Tank	0.00	500.51
4008569	06/19/91	3300 Bbl Sump Replacement Tank	0.00	500.51
4008570	06/19/91	3300 Bbl Sump Replacement Tank	0.00	500.51
4008571	06/19/91	10000 Bbl Sump Replacement Tank	0.00	500.51
4008576	06/19/91	3300 Bbl Sump Replacement Tank	0.00	500.51
4008577	06/19/91	3300 Bbl Sump Replacement Tank	0.00	500.51
4008578	06/19/91	5000 Bbl Sump Replacement Tank	0.00	500.51

*Chevron is not proposing to reestablish reductions after 6/22/87

44

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008579	06/19/91	5000 Bbl Sump Replacement Tank	0.00	500.51
4008581	06/19/91	2000 Bbl Sump Replacement Tank	0.00	500.51
4008582	06/19/91	2000 Bbl Sump Replacement Tank	0.00	500.51
4008583	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008584	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008585	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008586	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008587	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008588	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008589	06/19/91	1000 Bbl Sump Replacement Tank	0.00	500.51
4008590	06/19/91	500 Bbl Sump Replacement Tank	0.00	500.51
4008530 A	07/17/91	Replace 4008530	0.00	500.51
4008589 A	08/01/91	Sump Replacement Tank, Increase Capacity	0.00	500.51
4008027 D	08/21/91	SLC Plan		500.51
4008591	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	504.50
4008592	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	508.49
4008593	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	512.48
4008594	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	516.47
4008595	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	520.46
4008596	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	524.45
4008597	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	528.44
4008598	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	532.43
4008599	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	536.42
4008600	09/12/91	New 62.5 MMBTU/hr Steam Generator	3.99	540.41
	09/12/91	Reestablish Hydrocarbon ERC's	-2726.48	-2186.07
	09/12/91	Bank Reestablished Hydrocarbon ERC's	2726.48	540.41
		See 4008317/501 Project 921117		540.41
4008027 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008028 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008031 P	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008032 L	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008033 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008034 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008059 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008065 L	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008066 G	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008070 O	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008071 O	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008072 N	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008073 M	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008074 W	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008077 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008080 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008081 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008082 M	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008083 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008084 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008085 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008086 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41

*Chevron is not proposing to reestablish reductions after 6/22/87

45

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008087 Q	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008088 R	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008089 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008090 U	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008091 S	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008092 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008093 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008094 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008096 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008097 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008098 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008099 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008102 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008151 M	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008171 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008174 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008175 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008176 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008184 K	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008185 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008186 J	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008195 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008202 E	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008203 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008204 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008205 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008206 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008207 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008208 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008213 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008214 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008216 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008218 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008219 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008225 I	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008285 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008286 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008287 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008288 A	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008391 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008392 B	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008393 F	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008394 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008395 D	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008396 C	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008810 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008811 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008812 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008813 H	09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41

*Chevron is not proposing to reestablish reductions after 6/22/87

46

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation
4008814	H 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008815	H 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008816	H 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008817	H 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008819	E 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008820	E 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008821	D 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008822	D 09/20/91	Rule 210.1 Compliance Plan for SLC's	0.00	540.41
4008080	L 10/22/91	Modify operating condition	0.00	540.41
4008081	P 10/22/91	Modify operating condition	0.00	540.41
4008082	L 10/22/91	Modify operating condition	0.00	540.41
4008350	I 10/22/91	Modify operating condition	0.00	540.41
4008549	A 10/22/91	Increase TVP Allowed	0.04	540.45
4008550	A 10/22/91	Increase TVP Allowed	0.04	540.49
4008551	A 10/22/91	Increase TVP Allowed	0.02	540.51
4008552	A 10/22/91	Increase TVP Allowed	0.13	540.64
4008553	A 10/22/91	Increase TVP Allowed	2.16	542.80
4008554	A 10/22/91	Increase TVP Allowed	2.16	544.96
4008555	A 10/22/91	Increase TVP Allowed	2.16	547.12
4008556	A 10/22/91	Increase TVP Allowed	0.15	547.27
4008557	A 10/22/91	Increase TVP Allowed	0.12	547.39
4008558	A 10/22/91	Increase TVP Allowed	0.22	547.61
4008558	A 10/22/91	Increase TVP Allowed	0.22	547.83
4008559	A 10/22/91	Increase TVP Allowed	0.21	548.04
4008560	A 10/22/91	Increase TVP Allowed	0.21	548.25
4008561	A 10/22/91	Increase TVP Allowed	0.21	548.46
4008562	A 10/22/91	Increase TVP Allowed	0.21	548.67
4008563	A 10/22/91	Increase TVP Allowed	0.03	548.70
4008564	A 10/22/91	Increase TVP Allowed	0.03	548.73
4008565	A 10/22/91	Increase TVP Allowed	1.00	549.73
4008566	A 10/22/91	Increase TVP Allowed	1.00	550.73
4008601	10/22/91	Tankage vapor control system	0.00	550.73
4008602	10/22/91	WEMCO	1.00	551.73
4008603	10/22/91	WEMCO	1.00	552.73
4008604	10/22/91	WEMCO	1.00	553.73
4008605	10/22/91	Tank	0.10	553.83
4008606	10/22/91	Tank	0.04	553.87
4224001	A 10/22/91	Increase TVP allowed	124.47	678.34
4224002	A 10/22/91	Increase TVP allowed	0.04	678.38
4224003	A 10/22/91	Increase TVP allowed	0.04	678.42
4224004	A 10/22/91	Increase TVP allowed	0.00	678.42
4224005	A 10/22/91	Increase TVP allowed	0.00	678.42
4224006	A 10/22/91	Increase TVP allowed	0.02	678.44
4224007	A 10/22/91	Increase TVP allowed	0.02	678.46
4224008	A 10/22/91	Increase TVP allowed	0.04	678.50
4224009	A 10/22/91	Increase TVP allowed	2.16	680.66
4224011	A 10/22/91	Increase TVP allowed	0.46	681.12
4224012	A 10/22/91	Increase TVP allowed	0.00	681.12
4224013	A 10/22/91	Increase TVP allowed	0.03	681.15

*Chevron is not proposing to reestablish reductions after 5/22/87

47

Chevron U. S. A. western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	HC lbm/day	HC* Summation	*Chevron is not proposing to reestablish reductions after 6/22/87
4224014 A	10/22/91	Increase TVP allowed	0.03	681.18	
4008027 F	10/28/91	Add Location	0.00	681.18	
4008027 G	10/28/91	Add Location	0.00	681.18	
4008346 H	01/21/92	Modify Incinerator		681.18	
4008785 A	03/18/92	T of L S.G.	0.00	681.18	
4008070 P	03/20/92	Modify S.G.	0.00	681.18	
4008073 O	03/20/92	Modify S.G.	0.00	681.18	
4008451 B	03/20/92	Modify Tank	0.00	681.18	
4008211 A	03/20/92	Modify Tank	0.00	681.18	
4008212 A	03/20/92	Modify Tank	0.00	681.18	
4008070 P	03/20/92	S.G. Modification	0.00	681.18	
4008073 O	03/20/92	S.G. Modification	0.00	681.18	
4008451 B	03/20/92	Tank Modification	0.00	681.18	
4224211 A	03/20/92	Tank Modification	0.00	681.18	
4224212 A	03/20/92	Tank Modification	0.00	681.18	
4224220 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224270 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224289 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224344 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224392 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224401 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4224607 B	04/03/92	Modify Tank to Comply with Rule 463.2	0.00	681.18	
4008569 A	05/06/92	C of L Tank		681.18	
4008805 A	05/20/92	T of L Soda Ash Receiving	0.00	681.18	
4224288 A	05/26/92	Modify Tank	0.00	681.18	
4224289 A	05/26/92	Modify Tank	0.00	681.18	
4224251 A	06/04/92	T of L Storage Tank	0.00	681.18	
4008319 G	06/09/92	Combine 3 TEOR Sytems	0.00	681.18	
4008171 J	06/10/92	Modify S.G. Share Scrubber	0.00	681.18	
4008218 J	06/10/92	Modify S.G.	0.00	681.18	
4008349 J	06/10/92	Modify TEOR	0.00	681.18	
4008511 B	06/10/92	Modify Tank	0.00	681.18	
4008512 B	06/10/92	Modify Tank	0.00	681.18	
4008513 B	06/10/92	Modify Tank	0.00	681.18	
4008514 B	06/10/92	Modify Tank	0.00	681.18	
4008515 B	06/10/92	Modify Tank	0.00	681.18	
4008516 B	06/10/92	Modify Heat treater	0.00	681.18	
4008517 B	06/10/92	Modify Heat Treater	0.00	681.18	
4008518 B	06/10/92	WEMCO	0.00	681.18	
4008546 A	06/10/92	Modify Tank	0.00	681.18	
4008547 A	06/10/92	Modify Tank	0.00	681.18	
4008999 F	08/11/92	Renewal	0.00	681.18	
4008499 A	11/17/92	T of L S.G.	0.00	681.18	
4008499 B	11/17/92	T of L S.G.	0.00	681.18	
4008499 C	11/17/92	T of L S.G.	0.00	681.18	
Total adjustments since 9, 12/79			681.2		

Chevron U.S.A.
VOC Offsets

TABLE 3-1

CHEVRON USA INC. CENTRAL SOURCE
HYDROCARBON CREDITS

1	2	3	4	5	6	7	8	9	10
APCD #	CHEVRON ID	TEST DATE	TOTAL H/C LB/HR	UNCONTROLLED LB/DAY PER WELL	# OF WELLS	LB/DAY OFFSETS @ 99% EFFICIENCY WEIGHTED EHS FACT	ACTUAL SRCE TEST	APCD CREDITS	REESTABLISH CREDITS (SMALLER)
302 B	CC-2-9 ✓	7-31-80 ✓	393.81	378.06	25.00 ✓	336.18	567.09	374.40	336.18
303	CC-1-9 ✓	8-4-80	191.50	95.75	48.00 <	645.47	275.76	715.00	645.47
305 B	CC-9-3 ✓	7-29-80	33.65	62.12	13.00 ✓	174.81	48.46	195.00	174.81
306	CC-3-2 ✓	8-4-80	0.07	0.06	26.00 ✓	349.63	0.10	390.00	349.63
308 B	CT-4-3 ✓	7-29-80	155.42	109.71	34.00 <	457.20	223.80	510.00	457.20
310 B	CC-3-3 ✓	7-30-80	164.84	263.74	15.00 <	201.71	237.37	208.80	201.71
311	CT-5-3 ✓	11-22-79	798.10	684.09	28.00 <	376.52	1149.26	418.90	376.52
313	CC-1-5 ✓	8-5-80	361.70	149.67	58.00 <	779.94	520.85	877.50	779.94
315	CT-3-5 ✓	8-6-80	83.88	154.86	13.00 <	174.81	120.79	222.00	174.81
316	CT-2-5 ✓	8-5-80	451.70	387.17	28.00 <	376.52	650.45	463.50	376.52
322 B	CT-2-4 ✓	7-31-80	188.36	145.83	31.00 <	416.86	271.24	460.30	416.86
323	CT-1-4 ✓	11-20-79	98.00	58.80	40.00 <	537.89	141.12	598.00	537.89
325	CC-3-31 ✓	8-7-80	498.55	412.59	29.00 <	389.97	717.91	432.50	389.97
326	CC-2-31 ✓	8-11-80	160.42	770.02	5.00 ✓	67.24	231.00		
327	CC-1-31 ✓	8-6-80	54.54	436.32	3.00 ✓	40.34	78.54	45.00	40.34
328	CC-2-32 ✓	8-8-80	79.88	383.42	5.00 ✓	67.24	115.03		
329	CC-3-32 ✓	8-7-80	44.80	179.20	6.00 ✓	80.68	64.51	85.00	80.68
330	CC-1-32 ✓	8-8-80	110.77	664.62	4.00 <	53.79	159.51	40.40	40.40
331 A	CC-4-32 ✓	8-1-80	105.83	317.49	8.00 <	107.58	152.40	131.40	107.58
333 A	CT-1-3 ✓	7-30-80	95.69	135.09	17.00 <	228.60	137.79	255.00	228.60
APCD CREDITS BASED ON WEIGHTED AVERAGE				250.00 224.12					
TOTALS						5862.97	5862.97	6422.70	5715.11

• Not reestablishing emission credits from these sources.

COLUMN

CALCULATION / SOURCE

1 SOURCE PERMIT SECTION

2 " " "

3 COLUMN B ATTACHED TABLE

4 AVERAGE OF COLUMN F + I FOR EACH SYSTEM - ATTACHED TABLE

5 (F + I) * 24 / *6

6 SOURCE PERMIT SECTION

7 *6 * 224.12 * .06

8 #5 B * *6 * .06

9 *6 * 250 * .06

Page 7

WEIGHTED AVERAGE 224.12 #/WELL/DAY = $\frac{\sum (F * 6)}{\sum 6}$

250 #/WELL/DAY = UNCONTROLLED EMISSION FACTOR (APCD)

99% ACTUAL CONTROL

-93% REQUIRED CONTROL

6% REDUCTION CREDIT

OK
"Average" is 1/6 of 6

Calculation of Weighted Average

This calculation will show the derivation of the the Weighted Emission Factor for daily emissions from an uncontrolled steam drive well based on source test data tabulated in table 3-1 (page 48)

<u>ATC #</u>	(1) <u>Uncontrolled Lb/Day Per Well</u>	(2) <u># of Wells</u>	<u>(1) x (2)</u>
4008302B	378.06	25	9451.5
4008303B	95.75	48	4596.0
4008305B	62.12	13	807.6
4008306B	0.06	26	1.6
4008308B	109.71	34	3730.1
4008310B	263.74	15	3956.1
4008311A	684.09	28	19154.5
4008313B	149.67	58	8680.9
4008315A	154.86	13	2013.2
4008316B	387.17	28	10840.8
4008322B	145.83	31	4520.7
4008323A	58.80	40	2352.0
4008325A	412.59	29	11965.1
4008326	770.02	5	3850.1
4008327A	436.32	3	1309.0
4008328	383.42	5	1917.1
4008329B	179.20	6	1075.2
4008330B	664.62	4	2658.5
4008331A	317.49	8	2539.9
4008333A	<u>135.09</u>	<u>17</u>	<u>2296.5</u>
Total		436	97716.32

$$\frac{97716.32}{436} = 224.12 \text{ \#/well/day}$$

49

~~49~~
~~49~~

SUMMARY
(Selected Results)

A SITE	B DATE	C TIME	D LB/HR RECOVERY			G LB/HR LOSS			I TOTAL	J % EF.
			ET HC	LIQ HC	TOTAL	ET HC	LIQ HC	TOTAL		
CT-4-3	7/29	1130	6.03	27.58	33.61	6.03	115	121.0	21.7	
	7/29	1345	3.84	27.58	31.42	3.84	121	124.8	20.1	
3-CC-1 (CC-9-3)	7/29	1715	0.009	33.63	33.64	0.009	0.02	0.029	99.9	
	7/29	1920	0.002	33.63	33.63	0.002	0.0026	0.0046	99.9	
CT-1-3	7/30	1050	0.95	~2.56 ^{1/}	3.51	0.95	83.5	84.45	4.0	
	7/30	1225	2.13	~2.56	4.69	2.13	96.6	98.73	4.5	
CC-3-3	7/30	1515	0.69	161.33	162.02	0.69	2.8	3.49	97.9	
	7/30	1730	0.78	161.33	162.11	0.78	1.3	2.08	98.7	
CT-2-4	7/31	1100	31.79	95.49	127.28	31.79	242.2	274.0	31.7	
	7/31	1255	16.56	95.49	112.05	16.56	246.8	263.4	29.9	
CC-2-9	7/31	1535	0.71	391.76	392.47	0.71	0.36	1.07	99.7	
	7/31	1730	0.95	391.76	392.71	0.95	0.43	1.38	99.7	
CC-4-32	8/1	1200	3.97	82.99	86.96	3.97	11.4	15.37	85.0	
	8/1	1315	5.07	82.99	88.06	5.07	16.2	21.27	80.6	

total = Et/welt

^{1/} Not enough sample collected to determine specific gravity.
Assumed D.B.

a) ATC's implemented? 4008327A, 329B, 330B
b) 5 psia

(% of total)
Collection
Efficiency
during sampling

Kern A[^]PCD Enter and Maintain Status Sheets 4/27/93
 ***** 8:11:06
 A to C # 4 008 302 B Equip Code 90001 Location Qtr ___ Sec 09 T 29 S R 28 E
 Project # 790611 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNOR
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type CASING COLLECTION SYSTEM Rating 25 . 00
 Mnf Application Received Date 6 / 11 / 79
 Filing Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 Mailing, Statement for Fees Due 1 / 04 / 93
 Fee Receipt Number 0019260 Amount 187 . 50 Date 3 / 08 / 93
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 19 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: * RENEWAL 5/7/82 (90 DAY EXTENSION GRANTED 02/20/ Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

97

Kern A[^]PCD Enter and Maintain Status Sheets 4/27/93
 ***** 8:11:13
 A to C # 4 008 303 B Equip Code 70009 Location Qtr ___ Sec 09 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNOR
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 51 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

98 3/04/93

***** 7:48:11

A to C # 4 008 305 B Equip Code 70009 Location Qtr ___ Sec 03 T 29 S R 28 E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNON Phone 805-392-3300
Contact Title WESTERN REGION/DIVISION MGR.

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 13 . 00

Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80

Mailing, Statement for Fees Due 6 / 09 / 82

Fee Receipt Number 0442166 Amount 0 . 00 Date 7 / 06 / 82

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector Date 1 / 14 / 82

Initial Source Test Required (Y/N) _ _ _ / _ / _

Annual Source Test Required (Y/N) _ _ _ / _ / _

Source Test Inspector Date _ / _ / _

_ _ _ / _ / _

_ _ _ / _ / _

P/O Issued or Denied (I/D/C/T) I New/Purchased N From 7 / 13 / 82

P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 _ / _ / _

Comments: Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

3/04/93

***** 7:49:04

A to C # 4 008 306 B Equip Code 70009 Location Qtr ___ Sec 03 T 29 S R 28 E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNON Phone 805-392-3300
Contact Title WESTERN REGION/DIVISION MGR.

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 26 . 00

Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80

Mailing, Statement for Fees Due 6 / 09 / 82

Fee Receipt Number 4421660 Amount 0 . 00 Date 7 / 06 / 82

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector Date 1 / 14 / 82

Initial Source Test Required (Y/N) _ _ _ / _ / _

Annual Source Test Required (Y/N) _ _ _ / _ / _

Source Test Inspector Date _ / _ / _

_ _ _ / _ / _

_ _ _ / _ / _

P/O Issued or Denied (I/D/C/T) I New/Purchased N From 7 / 13 / 82

P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 _ / _ / _

Comments: Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 7:50:00
 A to C # 4 008 308 B Equip Code 70009 Location Qtr ___ Sec 03 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 79 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 4413870 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 7:50:30
 A to C # 4 008 311 A Equip Code 70009 Location Qtr ___ Sec 03 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 73 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

100

***** 14:07:32

A to C # 4 008 310 B Equip Code 70009 Location Qtr __ Sec 03 T 29 S R 28 E

Project # 800102 Processing Engr Supervising Engr

Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNON

Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 35 . 00

Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80

Mailing, Statement for Fees Due 1 / 19 / 82

Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector Date 2 / 17 / 82

Initial Source Test Required (Y/N) _ / _ / _

Annual Source Test Required (Y/N) _ / _ / _

Source Test Inspector Date _ / _ / _

_ / _ / _

_ / _ / _

P/O Issued or Denied (I/D/C/T) I New/Purchased N From 1 / 03 / 82

P/O Sold/Offset for Project/Banked/Graveyarded Proj# 000000 _ / _ / _

Comments: Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

101

3/04/93

 A to C # 4 008 313 B Equip Code 70009 Location Qtr ___ Sec 05 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 180 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___
 Annual Source Test Required (Y/N) ___
 Source Test Inspector Date ___
 P/O Issued or Denied (I/D/C/T) 9/2 *Project Issued* New/Purchased ___ From ___ 1 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded ___ Proj# 000000 ___ / ___ / ___
 Comments: CANCELLED - SEE #4008313C Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

3/04/93

 A to C # 4 008 315 A Equip Code 70009 Location Qtr ___ Sec 05 T 29 S R 28 E
 Project # 781227 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 38 . 00
 Mnf Application Received Date 12 / 27 / 78
 Filing Fee Receipt Number 0368593 Amount 0 . 00 Date 12 / 27 / 78
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 3 / 01 / 79
 Startup inspection inspector Date 1 / 12 / 82
 Initial Source Test Required (Y/N) ___
 Annual Source Test Required (Y/N) ___
 Source Test Inspector Date ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 7 / 13 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded ___ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

102 1/27/93

***** 11:38:16
A to C # 4 008 313 C Equip Code 70009 Location Qtr ___ Sec 05 T 29 S R 28 E
Project # 781227 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNON Phone 805-392-3300
Contact Title WESTERN REGION/DIVISION MGR. Rating 180 . 00
Equipment Type THERMALLY ENHANCED OIL RECOVERY

Mnf Application Received Date 12 / 27 / 78
Filing Fee Receipt Number 0368593 Amount 0 . 00 Date 12 / 27 / 78
Mailing, Statement for Fees Due 8 / 19 / 80

Fee Receipt Number 3904600 Amount 0 . 00 Date 9 / 15 / 80
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) ___ Date 3 / 01 / 79
Startup inspection inspector ___ Date 6 / 24 / 80

Initial Source Test Required (Y/N) ___
Annual Source Test Required (Y/N) ___
Source Test Inspector ___ Date ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 9 / 15 / 80
P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___

Comments: _____ Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
03-38 SA MW KS IM II S1 KB

*L.E. said this suffices for implementation
for 4008313B*

Kern APCD Enter and Maintain Status Sheets 3/04/93
***** 7:53:38
A to C # 4 008 316 B Equip Code 70009 Location Qtr ___ Sec 05 T 29 S R 28 E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central C
Contact Name MR. R. K. CONNON
Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 100 . 00
Mnf Application Received Date 1 / 02 / 80
Filing Fee Receipt Number 0367250 Amount 0 . 00 Date 1 / 02 / 80
Mailing, Statement for Fees Due ___ / ___ / ___
Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
Startup inspection inspector ___ Date ___ / ___ / ___
Initial Source Test Required (Y/N) ___ ___ / ___ / ___
Annual Source Test Required (Y/N) ___ ___ / ___ / ___
Source Test Inspector ___ Date ___ / ___ / ___
P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87
P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
Comments: Create Billing N
CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
03-38 SA MW KS IM II S1 KB

103
Kern APCD Enter and Maintain Status Sheets 3/04/93
***** 7:54:21
A to C # 4 008 322 B Equip Code 70009 Location Qtr ___ Sec 04 T 29 S R 28 E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central C
Contact Name MR. R. K. CONNON
Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 47 . 00
Mnf Application Received Date 1 / 02 / 80
Filing Fee Receipt Number 0367250 Amount 0 . 00 Date 1 / 02 / 80
Mailing, Statement for Fees Due ___ / ___ / ___
Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
Startup inspection inspector ___ Date ___ / ___ / ___
Initial Source Test Required (Y/N) ___ ___ / ___ / ___
Annual Source Test Required (Y/N) ___ ___ / ___ / ___
Source Test Inspector ___ Date ___ / ___ / ___
P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87
P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
Comments: Create Billing N
CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
03-38 SA MW KS IM II S1 KB

104

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 7:54:55
 A to C # 4 008 323 A Equip Code 70009 Location Qtr ___ Sec 04 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 50 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367250 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector ___ Date ___ / ___ / ___
 Initial Source Test Required (Y/N) ___ ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 7:56:05
 A to C # 4 008 327 A Equip Code 70009 Location Qtr ___ Sec 31 T 20 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central ~~K R W~~
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300 C
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 3 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367250 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) E Date 9 / 27 / 89
 Startup inspection inspector ___ Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) ___ New/Purchased ___ From ___ ___ / ___ / ___
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

No record
 of Implementation
 and no post modifications

Kern APCD

Enter and Maintain Status Sheets

4/28/93

105

***** 14:09:01

A to C # 4 008 325 A Equip Code 70009 Location Qtr ___ Sec 31 T 28 S R 28 E

Project # 800102 Processing Engr Supervising Engr

Company Name CHEVRON U.S.A., INC. Western/Central C

Contact Name MR. R. K. CONNOR

Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 96 . 00

Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367250 Amount 0 . 00 Date 1 / 02 / 80

Mailing, Statement for Fees Due ___ / ___ / ___

Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector ___ Date 2 / 17 / 82

Initial Source Test Required (Y/N) - ___ / ___ / ___

Annual Source Test Required (Y/N) - ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82

P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___

Comments: Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

106 3/04/93

A to C # 4 008 329 B Equip Code 70009 Location Qtr ___ Sec 32 T 285 R 28E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central XC

Contact Name MR. R. K. CONNON
Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 8 . 00
Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
Mailing, Statement for Fees Due ___ / ___ / ___

Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) E Date 9 / 27 / 89

Startup inspection inspector ___ Date 2 / 17 / 82

Initial Source Test Required (Y/N) - ___ / ___ / ___
Annual Source Test Required (Y/N) - ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

No record of Implementation or past modifications

P/O Issued or Denied (I/D/C/T) - New/Purchased - From ___ / ___ / ___
P/O Sold/Offset for Project/Banked/Graveyarded - Proj# 000000 ___ / ___ / ___

Comments: _____ Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

3/04/93

A to C # 4 008 330 B Equip Code 70009 Location Qtr ___ Sec 32 T 285 R 28E
Project # 800102 Processing Engr Supervising Engr
Company Name CHEVRON U.S.A., INC. Western/Central XC

Contact Name MR. R. K. CONNON
Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 5 . 00
Mnf Application Received Date 1 / 02 / 80

Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
Mailing, Statement for Fees Due ___ / ___ / ___

Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80

Startup inspection inspector ___ Date 2 / 17 / 82

Initial Source Test Required (Y/N) - ___ / ___ / ___
Annual Source Test Required (Y/N) - ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) - New/Purchased - From ___ 6 / 03 / 82
P/O Sold/Offset for Project/Banked/Graveyarded - Proj# 000000 ___ / ___ / ___

Comments: _____ Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 107 3/04/93
 ***** 7:58:49
 A to C # 4 008 331 A Equip Code 70009 Location Qtr Sec 32 1 28 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 38 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due / /
 Fee Receipt Number 0000000 Amount 0 . 00 Date / /
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) / /
 Annual Source Test Required (Y/N) / /
 Source Test Inspector Date / /
 / /
 / /
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded Proj# 000000 / /
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 8:58:27
 A to C # 4 008 333 A Equip Code 70009 Location Qtr Sec 03 1 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 40 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date / /
 Mailing, Statement for Fees Due 1 / 03 / 89
 Fee Receipt Number 0004199 Amount 300 . 00 Date 2 / 24 / 89
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) / /
 Annual Source Test Required (Y/N) / /
 Source Test Inspector Date / /
 / /
 / /
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded Proj# 000000 / /
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Western

36 -	4008317/501	-	S-0038-1
26 -	4008317/502	-	S- 36
25 -	503	-	57
01 -	504	-	58
15 -	505	-	59
16 -	506	-	60
31 -	507	-	61
26 -	508	-	62
02 -	509	-	63

Central

4008302/501	-	S-0037-1	
S-64-1	502	31 31, T28S/R28	302
S-65-1	503	32 32 T28S/R28	303
S-66-1	504	3 T29S/R28	305
S-67-1	505	4 T29S/R28	306
S-68-1	506	5 T29S/R28	308
		9 T29S/R28	329

Kern APCD

Enter and Maintain Status Sheets

108 3/04/93

 A to C # 4 008 317 Equip Code 70009 Location Qtr ___ Sec 36 T 29 S R 21 E
 Project # 770106 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central **W**
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 62 . 00
 Mnf Application Received Date 1 / 06 / 77
 Filing Fee Receipt Number 0325580 Amount 0 . 00 Date 1 / 06 / 77
 Mailing, Statement for Fees Due 12 / 05 / 84
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 4 / 28 / 77
 Startup inspection inspector Date 5 / 24 / 77
 Initial Source Test Required (Y/N) ___ Date ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ Date ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 07 / 77
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: AN AQIA IS NOT REQUIRED Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

3/04/93

 A to C # 4 008 318 Equip Code 70009 Location Qtr ___ Sec 16 T 30 S R 22 E
 Project # 770106 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 28 . 00
 Mnf Application Received Date 1 / 06 / 77
 Filing Fee Receipt Number 0325580 Amount 0 . 00 Date 1 / 06 / 77
 Mailing, Statement for Fees Due 12 / 05 / 84
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 4 / 28 / 77
 Startup inspection inspector Date 5 / 24 / 77
 Initial Source Test Required (Y/N) ___ Date ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ Date ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 07 / 77
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: AN AQIA IS NOT REQUIRED Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

109 3/04/93

Kern APCD Enter and Maintain Status Sheets
 ***** 9:23:27

A to C # 4 008 319 B Equip Code 70009 Location Qtr ___ Sec 26 T 32 S R 23 E
 Project # 790611 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 92 . 00
 Mnf Application Received Date 6 / 11 / 79
 Filing Fee Receipt Number 0339894 Amount 0 . 00 Date 6 / 11 / 79
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) E Date 5 / 19 / 80
 Startup inspection inspector Date 1 / 13 / 82
 Initial Source Test Required (Y/N) - Date ___ / ___ / ___
 Annual Source Test Required (Y/N) - Date ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) C New/Purchased _ From ___ 8 / 24 / 87
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: RENEWAL 5-28-82/NOW 4008319 C Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD Enter and Maintain Status Sheets 3/04/93
 ***** 9:24:33

A to C # 4 008 350 Equip Code 70009 Location Qtr ___ Sec 31 T 29 S R 22 E
 Project # 780720 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 42 . 00
 Mnf Application Received Date 7 / 20 / 78
 Filing Fee Receipt Number 0368456 Amount 0 . 00 Date 7 / 20 / 78
 Mailing, Statement for Fees Due 12 / 05 / 84
 Fee Receipt Number 0375157 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) C Date 8 / 15 / 78
 Startup inspection inspector Date ___ / ___ / ___
 Initial Source Test Required (Y/N) - Date ___ / ___ / ___
 Annual Source Test Required (Y/N) - Date ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: CANCELLED 5/20/80 BY 4008350 A Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

110 3/04/93

Kern APCD Enter and Maintain Status Sheets
 ***** 9:26:47

A to C # 4 008 343 B Equip Code 70009 Location Qtr ___ Sec 25 T 32 S R 23 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 111 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 3672500 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) E Date 5 / 19 / 80
 Startup inspection inspector ___ Date ___ / ___ / ___
 Initial Source Test Required (Y/N) ___ ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) ___ New/Purchased ___ From ___ ___ / ___ / ___
 P/O Sold/Offset for Project/Banked/Graveyarded ___ Proj# 000000 ___ / ___ / ___
 Comments: RENEWED 5-7-82 Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

3/04/93

Kern APCD Enter and Maintain Status Sheets
 ***** 9:28:15

A to C # 4 008 345 A Equip Code 70009 Location Qtr ___ Sec 26 T 32 S R 23 E
 Project # 790611 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 36 . 00
 Mnf Application Received Date 6 / 11 / 79
 Filing Fee Receipt Number 0339894 Amount 0 . 00 Date 6 / 11 / 79
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) E Date 5 / 19 / 80
 Startup inspection inspector ___ Date ___ / ___ / ___
 Initial Source Test Required (Y/N) ___ ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) C New/Purchased ___ From ___ 5 / 12 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded ___ Proj# 000000 ___ / ___ / ___
 Comments: ADDED TO 4008319D 5/21/82 Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

3/04/93

Kern APCD Enter and Maintain Status Sheets
 ***** 9:29:22

A to C # 4 008 346 A Equip Code 70009 Location Qtr ___ Sec 01 T 11 N R 24 W
 Project # 790413 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 38 . 00
 Mnf Application Received Date 4 / 13 / 79
 Filing Fee Receipt Number 0335064 Amount 0 . 00 Date 4 / 13 / 79
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) C Date 5 / 11 / 79
 Startup inspection inspector ___ Date ___ / ___ / ___
 Initial Source Test Required (Y/N) - ___ / ___ / ___
 Annual Source Test Required (Y/N) - ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) C New/Purchased ___ From ___ 12 / 23 / 81
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: REPLACED BY 4008346E Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

3/04/93

Kern APCD Enter and Maintain Status Sheets
 ***** 9:30:00

A to C # 4 008 347 A Equip Code 70009 Location Qtr ___ Sec 02 T 11 N R 24 W
 Project # 790413 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central W
 Contact Name MR. R. K. CONNON
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 56 . 00
 Mnf Application Received Date 4 / 13 / 79
 Filing Fee Receipt Number 0335064 Amount 0 . 00 Date 4 / 13 / 79
 Mailing, Statement for Fees Due ___ / ___ / ___
 Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 11 / 79
 Startup inspection inspector ___ Date ___ / ___ / ___
 Initial Source Test Required (Y/N) - ___ / ___ / ___
 Annual Source Test Required (Y/N) - ___ / ___ / ___
 Source Test Inspector ___ Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emish CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

112

3/04/93

9:30:58

A to C # 4 008 349 A Equip Code 70009 Location Qtr ___ Sec 15 T 31 S R 22 E

Project # 790413 Processing Engr Supervising Engr

Company Name CHEVRON U.S.A., INC. Western/Central W

Contact Name MR. R. K. CONNON

Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300

Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 45 . 00

Mnf Application Received Date 4 / 13 / 79

Filing Fee Receipt Number 0335064 Amount 0 . 00 Date 4 / 13 / 79

Mailing, Statement for Fees Due ___ / ___ / ___

Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___

A to C Issued, Denied, Cancelled or Expired (I/D/C/E) ___ Date ___ / ___ / ___

Startup inspection inspector ___ Date ___ / ___ / ___

Initial Source Test Required (Y/N) ___ ___ / ___ / ___

Annual Source Test Required (Y/N) ___ ___ / ___ / ___

Source Test Inspector ___ Date ___ / ___ / ___

___ ___ / ___ / ___

___ ___ / ___ / ___

P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 1 / 01 / 87

P/O Sold/Offset for Project/Banked/Graveyarded ___ Proj# 000000 ___ / ___ / ___

Comments: A/C 9/12/79-TOTAL NET CHANGE LESS THAN 15lbm/hr:NO Create Billing N

CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct

Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1

03-38 SA MW KS IM II S1 KB

This table is a chronological listing of the ATCs/PTOs in question.

<i>PTO/ATC</i>	<i>Date</i>	<i>Comments</i>
<i>4008327</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>ATC Alpha A</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>Includes incineration</i>
<i>4008329</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>PTO</i>	<i>2/1/79</i>	<i>Did not include incineration</i>
<i>ATC Alpha B</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>Includes incineration</i>
<i>4008330</i>		
<i>Original ATC</i>	<i>2/28/78</i>	<i>Did not include incineration</i>
<i>PTO</i>	<i>2/1/79</i>	<i>Did not include incineration</i>
<i>ATC Alpha B</i>	<i>5/20/80</i>	<i>To include incineration</i>
<i>PTO no alpha</i>	<i>2/1/82</i>	<i>To include incineration</i>

K I COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

114
LEON M. HEDERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1
... Street
9104 997
... California 91302
... (805) 801-2731



R3F 3 lines

4008327

*FEDD well head casing vapor recovery system CC-1-31
w/ ea heat exch, gas/liq sep, vapor cond/mist elim series*

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-31 serving 3 wells the following wells 1-1A, 1-3A, and 3-1A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 90%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

Thomas Parsons
Thomas Parsons, P.E.
Air Sanitation Engineer III

cc

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



R3F Collins

4008327A

FEQD Add steam generator firebox noncondensable vapor incineration system CC Syst CC-1-31 serving 3 wells

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent

Vapor Recovery System (ID #CC-1-31) serving the following 3 wells: 1-1A, 1-3A, and 3-1A,

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. ✓
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume. ✓
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

2. Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter), and the results and field data submitted to the District no more than 30 days thereafter.
3. Yearly Permit renewal testing shall be conducted during the months of June, July and August.
4. Sampling is not required of a correctly operating fuel gas or incineration system.

By

Thomas Paxson, P.E.
Air Sanitation Engineer III

PERMIT TO OPERATE



LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008327

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 31, T28S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-1-31

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Bay

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-1-31, including the following equipment:

- 3 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- 1 _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- 1 _____ vapor condensor(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

117

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008329

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-3-32 serving the following wells, 3-1A, 5-1A, 7-1A, 6-3, 5-3A and 4-2, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger;
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329A Not Implemented


EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 1-1A, 1-3A, 1-5A and 41.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND561-1
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND561-1
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND561-1

SPECIAL CONDITIONS:

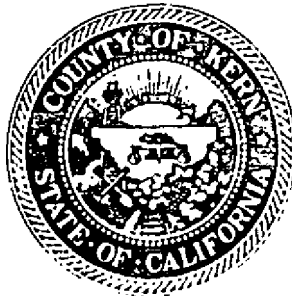
1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329/B

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CC-3-32) serving the following 8 wells: 3-1A, 3-3A, 5-1A, 5-3A, 6-3A, 7-1A, 3-3, and 6-2A PER T. Paxson 6/24/60

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s),
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

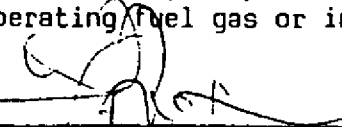
OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

120

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 881-3682

PERMIT
TO
OPERATE



Number: 4008329

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A.
For equipment located at: Sec. 32, T28S, R28E
Equipment or Process Description: Well Vent Vapor Recovery System CC-3-32

OPERATIONAL CONDITIONS LISTED ON REVERSE OF PERMIT.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

Leon M. Hebertson, M.D.
Air Pollution Control Officer

By: 

For Period: 2-1-79 To 2-1-80

EQUIPMENT DESCRIPTION: Well Vent Vapor Recovery System serving the following wells 3-1A, 3-3A, 5-1A, 5-3A, 6-3, 7-1A, including the following equipment and design specifications:

A. Production well vent vapor collection and design specifications:

B. One heat exchanger(s),
C. One gas/liquid separator(s),
 gas compressor(s),

D. One vapor condenser(s) X with mist eliminator,
 air-cooled vapor condenser(s),

 Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than %.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

PERMIT TO OPERATE



LEON M HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1601 "H" St., Suite 260
Bakersfield, California 93301
Telephone (805) 861-3682

Number: 4008329

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
For equipment located at: Sec. 32, T28S, R28E
Equipment or Process Description: Thermally Enhanced Oil Recovery
Operation #CC-3-32

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M HEBERTSON, M.D.
AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. B. Coy

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-3-32 w/H2S Control System, including the following equipment:

- 8 Steam drive wells _____ cyclic wells,
- 1 Production well vent vapor collection piping network,
- _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- _____ vapor condensor(s), _____ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) _____ heat treater(s) _____ boiler(s), _____ flare(s).
- 1 Condensate storage vessel(s)

1
KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

122
LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008330

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-32 serving the following wells, 1-3A, 1-1A, 41 and 1-5A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger;
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

1601 "H" Street, Suite 250
Bakersfield, California-93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



NOT IMPLEMENTED

4008330A

EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 31A, 3-3A, 5-1A, 5-3A, 6-3 and 7-1A.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND 563-2.
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND 563-2.
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND563-2

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By: 

Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

124

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008330xB

EQUIPMENT DESCRIPTION: Modification of Existing Well Head Casing Vent Vapor Recovery System (ID #CC-1-32) serving the following 4 wells: 1-1A, 1-3A, 1-5A, and 41.

including the following equipment and design specifications:

- A. Crude oil production well vent vapor collection piping network,
- B. One gas/liquid separator(s),
- C. One gas compressor(s), (listed on KCAPCD #4008328)
- D. One air-cooled heat exchanger(s),
- E. One condensate storage vessel(s),
- F. Steam generator firebox noncondensable vapors incineration system,

EQUIPMENT DESIGN CONDITIONS:

- 1. Exhaust duct (to atmosphere or incineration device) shall be equipped with temperature indicator.
- 2. Condensate storage vessel(s) shall be vented to vapor collection system or equipped with equivalent vapor control provisions approved by KCAPCD.

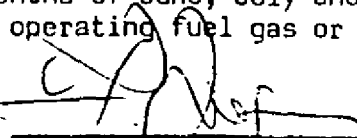
OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight.
- b. Exhaust gas sulfur compounds (as SO₂) concentration shall not exceed 0.2% (2000 ppm) by volume.
- c. If hydrocarbon vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere.

SPECIAL CONDITIONS:

Nonmethane hydrocarbon control efficiency and sulfur compound concentration shall be determined by KCAPCD approved and witnessed stack sampling no more than 60 days after startup of steam generator(s) associated with this project (and yearly thereafter) and the results and field data submitted to the District no more than 30 days thereafter. Yearly Permit renewal testing shall be conducted during the months of June, July and August. Sampling is not required of a correctly operating fuel gas or incineration system.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

125

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer
1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

PERMIT TO OPERATE



Number: 4008330

A PERMIT TO OPERATE IS HEREBY GRANTED TO: Chevron U.S.A.

For equipment located at: Sec. 32, T28S, R28E

Equipment or Process Description: Well Vent Vapor Recovery System CC-1-32

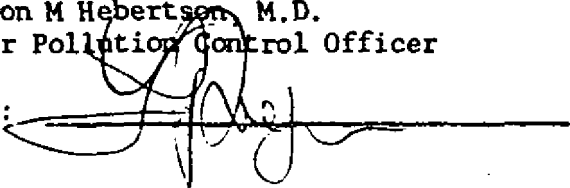
OPERATIONAL CONDITIONS LISTED ON REVERSE OF PERMIT.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION, OR ANY ALTERATION.

Note: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

Leon M Hebertson, M.D.
Air Pollution Control Officer

REVOCALE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the K.C.A.P.C.D.

By: 

For Period: 2-1-79 To 2-1-80

EQUIPMENT DESCRIPTION: Well Vent Vapor Recovery System serving the following wells 1-1A, 1-3A, 1-5A, 41, including the following equipment and design specifications:

- A. Production well vent vapor collection and design specifications:
- B. One heat exchanger(s),
- C. One gas/liquid separator(s),
 gas compressor(s),
- D. One vapor condenser(s) X with mist eliminator,
 air-cooled vapor condenser(s),
- Provisions for incinerating non-condensable hydrocarbon vapor in steam generator(s) heater treater(s) boiler(s) flare(s).

OPERATIONAL CONDITIONS:

1. Non-methane hydrocarbon collection efficiency shall be maintained at no less than %.
2. Final vapor condenser shall utilize exhaust gas temperature indicator.
3. Mist eliminator shall be maintained in optimum operating condition.
4. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization.
5. If flare or incinerator is to be utilized for vapor disposal, well vent vapors shall not be vented directly to the atmosphere.

LEON M. HEBERTSON, M.D.
 Director of Public Health
 Air Pollution Control Officer
 1601 "H" St., Suite 260
 Bakersfield, California 93301
 Telephone (805) 881-3682

PERMIT
 TO
 OPERATE



Number: 4008330

A PERMIT TO OPERATE IS GRANTED TO: Chevron U.S.A., Inc.
 For equipment located at: Sec. 32, T28S, R28E
 Equipment or Process Description: Thermally Enhanced Oil Recovery
 Operation #CC-1-32

OPERATIONAL CONDITIONS LISTED BELOW.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR LOCATION,
 OR ANY ALTERATION.

NOTE: The permittee may be required to provide adequate sampling and testing facilities. Equipment modification requires a new permit.

LEON M. HEBERTSON, M.D.
 AIR POLLUTION CONTROL OFFICER

REVOCABLE: This permit does not authorize the emission of air contaminants in excess of those allowed by the Rules and Regulations of the Kern County Air Pollution Control District.

By: S. Ray

Period: 2/1/82 to 2/1/83

EQUIPMENT DESCRIPTION: Thermally Enhanced Oil Recovery Operation #CC-1-32 w/H₂S Control System, including the following equipment:

- 4 Steam drive wells ___ cyclic wells,
- 1 Production well vent vapor collection piping network,
- 1 _____ heat exchanger(s),
- 1 _____ gas/liquid separator(s),
- 1 _____ gas compressor(s),
- 1 _____ vapor condensor(s), ___ with mist eliminator,
- 1 _____ air-cooled vapor condensor(s),
- 1 Provisions for incinerating non-condensable hydrocarbon vapor in
- X steam generator(s) ___ heat treater(s) ___ boiler(s), ___ flare(s).
- 1 Condensate storage vessel(s)

RULE 230.1 EMISSION REDUCTION CREDIT BANKING
(Adopted September 19, 1991, Revised on March 11, 1992)

I. Applicability

The provisions of this rule apply to all transactions involving the storage, transfer, or use of emission reduction credits of affected pollutants.

II. Rule Purposes

- A. Provide an administrative mechanism for sources to store emission reduction credits for later use as offsets where allowed by District rules and regulations, or state and federal rules and regulations.
- B. Provide an administrative mechanism for sources to transfer emission reduction credits to other sources for use as offsets as allowed by the District's New Source Review rule, or state and federal rules and regulations.
- C. Define eligibility standards, quantitative procedures, and administrative practices to ensure that Emission Reduction Credits (ERCs) are real, permanent, quantifiable, surplus, and enforceable.

III. Definitions

- A. Unless otherwise defined, terms as used in this rule are defined in the New Source Review Rule.
- B. Actual Emission Reductions: as defined in the District's New Source Review Rule. If the reductions are authorized by an Authority to Construct, the adjustments made to the actual emissions reductions as defined in the New and Modified Stationary Source Review Rule, shall be based on the rules, plans, workshop notices at the time the application for such Authority to Construct was deemed complete.
- C. Bankable Emission Reductions: emission reductions of pollutants and their precursors for which ambient air quality standards exist, and which meet the provisions of this Rule. Such reductions may be deposited in the District's ERC Bank. Once banked and certified, the emission reductions become Emission Reduction Credits (ERCs).

- D. Banking: the District's system of quantifying, certifying, recording, and storing ERCs for future use or transfer. This system shall be called the District's Emission Reduction Credit Bank (herein referred to as the ERC Bank").
- E. Banking Register: the document that records all ERC deposits, withdrawals, transfers, and transactions.
- F. Baseline Period: the same period as defined in the District's New Source Review Rule.
- G. Emission Reduction Credits (ERCs): reductions of actual emissions emission unit recognized by the District as available for use as tradeoffs or offsets in accordance with the requirements of this Rule. To be eligible for certification as ERCs, emissions reductions must be real, surplus, permanent, quantifiable and enforceable. All emission reduction meeting these requirements may be certified as ERCs.
- H. ERC Certificate: a document certifying title to a defined quantity and type of ERCs issued by the District to the owner(s) identified on the Certificate.
- I. Non-inventoried Emissions: those emissions of an air pollutant into the atmosphere from any source which has not been recorded on the District emission inventory.
- J. Non-permitted Emissions: those emissions of an air pollutant into the atmosphere open air from non-permitted emission sources that are not required to have air pollution permits. Non-permitted emissions may include emissions from agricultural waste burning, mobile source emissions, exempt emission unit, and sources that were never subject to the requirements of the District's New Source Review Rule.
- K. Offset: the use of an ERC to mitigate emission increases of an affected pollutant from a new or modified source subject to the requirements of District's new Source Review Rule.
- L. Shutdown: shall mean either the earlier of the permanent cessation of emissions from an emitting unit or the surrender of that unit's operating permit. If, prior to the surrender of the operating permit, the Control Officer determines that: a) the unit has been removed or fallen into an inoperable and unmaintained condition such that start-up would require an investment exceeding 50% of the current replacement cost; and b) the owner cannot demonstrate to the

satisfaction of the Control Officer that the owner intended to operate again, then the Control Officer may cancel the permit and deem the source shutdown as of the date of last emissions. Evidence of "intent to operate again" may include valid production contracts, orders, other agreements, or any economically based reasons which would require the operation of the emitting unit after initial cessation of emissions.

- M. Transfer: the conveyance of an ERC from one entity to another.

IV. Eligibility of Emission Reductions

A. Emissions reductions before September 19, 1991

For the purposes of this Subsection District means the San Joaquin Unified Air Pollution Control District (SJVUAPCD) or any former county Air Pollution Control District that is now included in the SJVUAPCD.

Upon application and approval by the Control Officer the following emissions reductions occurring prior to September 19, 1991, may receive Emissions Reduction Banking Certificates.

1. Emission reduction occurring after January 1, 1988 and prior to the date of adoption of this rule which have been recognized by the District prior to (the adoption date of) this rule, pursuant to a banking rule or pursuant to a formal internal tracking mechanism shall be deemed eligible emission reductions, provided:
 - a. The Control Officer determines that such emission reductions comply with the definition of Actual Emission Reduction;
 - b. The reductions are real, surplus, permanent, quantifiable, and enforceable; and
 - c. They have not been used for approval of an Authority to Construct or used as offsets.
2. Emissions reductions occurring prior to January 1, 1988 which have been recognized by the District pursuant to a banking rule or for counties that did not have a banking rule that were formally recognized in writing by the District as available for offsets shall be eligible for emissions reductions banking certificates provided:

- a. The Control Officer determines that such emissions reductions comply with the definition of Actual Emissions Reductions, and such reductions are real, surplus, permanent, quantifiable, and enforceable;
 - b. The reductions have not been used for the approval of an Authority to Construct or used as offsets; and
 - c. The reductions are included in or have been added to the 1987 emissions inventory.
 - d. A banking application is filed within 180 days of (date of rule adoption) in accordance with the requirements of Section VI, and the applicable requirements of Section VIII are met.
3. Under no circumstances shall any emissions reductions occurring before September 19, 1991, other than as described in Subsection IV.A.1. or IV.A.2. be eligible for emissions reduction credit banking certificates. ← March 16, 1992

B. Emissions Reductions Occurring After September 19, 1991

For emission reductions occurring after September 19, 1991, the following criteria must be met in order to deem such reductions eligible for banking:

1. The emission reduction are real, surplus, permanent, quantifiable, and enforceable.
2. Actual emission reductions are calculated in accordance with the calculation procedures of the District's New Source Review Rule and comply with the definition of Actual Emission Reductions of the District's New Source Review Rule. Adjustment to emissions reductions for the community bank shall be made at the time the reductions a quantified pursuant to the District's New Source Review Rule.
3. An application for ERC has been filed no later than 180 days after the emission reductions occurred.
4. For non-permitted emission units emissions must have been included in the 1987 emissions inventory and the source creating ERCs shall apply for and acquire a Permit to Operate subject to enforceable

permit conditions which ensures that the emission reductions will be provided in accordance with the provisions of this rule, and shall continue for the reasonably expected life of the proposed stationary source. If the district, pursuant to state laws, is prohibited to permit the emission unit, the stationary source creating ERC's shall execute a legal binding contract with the District which ensures that the emission reductions will be provided in accordance with the provisions of this rule, and shall continue for the reasonably expected life of the proposed source.

C. A stationary source which provided offsets for increase in permitted emissions pursuant to New and Modified Stationary Source Review and has been issued an Authority to Construct since January 1, 1988 may apply to bank such offsets pursuant to Subsection IV.B. if the Authority to Construct is voluntarily surrendered, expires or is cancelled or if the Permit to Operate resulting from such Authority to Construct is voluntarily modified, surrendered or is revoked.

D. The following emission reductions are not eligible as Emission Reduction Credits for banking:

1. Emission reductions from the shutdown or curtailment of gasoline dispensing facilities, dry cleaning facilities.
2. Emission reductions occurring at a fossil fuel fired power plant as the result of the operation of a cogeneration facility.
3. Emission reductions occurring from the shut down or curtailment of a stationary source for which the District originally provided the required offsets.
4. Emission reductions occurring from the shutdown or curtailment of a stationary source for which the offsets originally provided are no longer enforceable by the District such as reductions in open burning of agricultural waste used to offset emissions from a resource recovery project.

V. ERC Certificate Application Procedures

- A. Any entity which owns or operates a source at which an eligible emission reduction has occurred or will occur may apply for an ERC Certificate in accordance with the requirements of this Rule.
- B. The entity requesting the ERC Certificate shall make an application on forms supplied by the District.
- C. An application shall be filed for each emission reduction. The application may be for reductions in one or more affected pollutant. The application shall contain sufficient information to allow for adequate evaluation of actual emission reductions from each emission unit.
- D. In accordance with the provisions of Rule 103 and Section 114(c) of the Federal Clean Air Act, applicants may claim confidentiality of information contained in the application.
- ~~E. Except for reductions covered under subsection IV.A., ERC Certificate applications for reductions shall be submitted within 180 days after the emission reduction occurs. For reductions covered under Subsection IV.A., ERC Certificate applications shall be submitted within 180 days of the adoption date of this rule.~~
- F. Where appropriate, to confirm emission reductions claimed in conjunction with an application for an ERC Certificate, the District may require source tests, continuous monitoring, production records, fuel use records, or any other appropriate means of measurement.
- H. The form of the ERC Certificate shall be established by the Control Officer.
- I. ERC applicants for emission reductions derived from a single reduction at a single emitting unit may apply for and receive single or multiple ERC Certificates. Multiple ERC Certificates shall be issued for each owners' proportional share.

VI. Registration of ERC Certificates

- A. The Control Officer may only grant an ERC Certificate after the emission reductions have actually occurred upon satisfaction of the following applicable provision(s):
 - 1. A revised Permit to Operate has been issued if the emission reductions were created as a result of

greater operating efficiencies or from the application of more efficient control technology. This revised permit must include specific quantifiable emission limits reflecting the reduced emissions;

- 2. If the emission reductions were created as a result of the shutdown of a permitted emissions unit, the relevant Permit(s) to Operate has been surrendered and voided.
- 3. If the emission reductions from a permitted emissions unit were created by means of reducing production or production rates, the relevant Permit to Operate have been modified to reflect the emission reductions.
- 4. If the emission reductions were created as a result of the application of greater operating efficiencies or from the application of a more efficient control technology to a then non-permitted source: a) Permit(s) to Operate has been obtained, or b) written contract between the owner or operator of such source and the ERC applicant has been executed, which by its terms, shall be enforceable by the Control Officer. The referenced permit or contract shall include specific quantifiable emission limits reflecting reduced emissions. If the emissions reductions were created as a result of the modification of a non-permitted emissions unit, the stationary source shall be prohibited from operating a new emissions unit in the same source category without first obtaining Authority to Construct and Permit to Operate.

- B. Where appropriate, to confirm emission reductions claimed in conjunction with an application for an ERC Certificate, the Control Officer may require source tests, continuous monitoring, production records, fuel use records, or any other appropriate means of measurement.
- C. The form of the ERC Certificate shall be established by the Control Officer.
- D. ERC applicants for emission reductions derived from a single reduction at a single emitting unit may apply for and receive single or multiple ERC Certificates. Multiple ERC Certificates shall be issued for each owners' proportional share.

- E. When all the requirements of this Rule have been satisfied and the emission reduction has actually occurred, the Control Officer shall issue the ERC Certificate. Upon the Control Officer's determination to grant an ERC Certificate, title to such ERC shall be registered in the Banking Register. Such titles may be computerized and made available for public inspection.
- F. All information concerning titles, interests, and other matters such as liens, encumbrances, and changes of record shall be identified in the District's ERC Banking Register, as well as pertinent date(s) concerning such information, until such time as the ERC Certificate is public information, until such time as the ERC Certificate is used, cancelled, or nullified by operation of law.
- G. Each ERC Certificate shall be numbered, bear the date of issuance, be signed by the District official charged with the responsibility of keeping the District's ERC Bank, and bear the seal of the District. One copy of the ERC Certificate shall be retained by the District and the original shall be delivered to the owner or party acting for the owner. The record of issued ERC Certificates shall be retained by the District, and this record may be in computer storage. Delivery by the District of an ERC Certificate to an owner shall be accomplished in person or by registered mail. The person accepting the ERC Certificate must sign a receipt therefore and provide such proof of identity as the Control Officer shall require.
- H. At the option of joint owners of ERCs, such persons may receive one ERC Certificate for the entirety or separate ERC Certificates reflecting each proportional share, provided that such ERCs are derived from a single reduction at a single emitting unit. The District's ERC Bank shall reflect the consolidation or separation of the ERCs and the previous Certificate(s) shall be cancelled upon the issuance of the new Certificate(s).
- I. After receiving written notice from an owner that they have released their right of control of valid existing banked emission reductions, or if an owner fails to file an application for banking emission reductions in accordance with procedures outlined in this rule, the control officer may place such emission reductions in the District's Community Bank without consent from the owner.
- J. Adjustments to the quantity of banked ERCs shall be

allowed without the owner's consent so long as the action to reduce the quantity of ERCs is consistent with applicable District, State, and Federal rules and/or planning requirements, including Reasonable Further Progress Actions to reduce the quantity of banked ERCs which are inconsistent with applicable District, State, or Federal rules shall require the consent of the owner. Such adjustments shall only be made after public notice and hearing.

- K. Prior to adjusting the estimated quantity or the conditions of deposit, use, or withdrawal of banked ERCs for any reason, the Control Officer shall notify the ERC Certificate owner in writing.
- L. Except as provided in Subsection VI.J. of this Rule, deposits are permanent until used by the depositor or any party to whom the ERC Certificate has been transferred. After issuance of the ERC Banking Certificate, subsequent changes in regulations to require the type of reduction banked shall not reduce or eliminate the deposit.
- M. If the Control Officer determines that additional mandatory emission reductions will be necessary to achieve ambient air quality standard(s), the Control Officer may declare a full or partial moratorium on banked ERCs of the applicable contaminant. Prior to imposing any kind of moratorium, the Control Officer must provide public notice that the District has determined that sufficient emission reductions cannot be achieved through the imposition of controls on existing permitted or non-permitted emitting emissions units. Should such a determination be made, a moratorium on deposits shall first be imposed. Should the Control Officer determine that a moratorium on withdrawals of banked ERCs is also necessary to attain applicable air quality standards, a public notice shall first be provided to this effect. Only after a public hearing resulting in the determination that a moratorium is needed and written notice to ERC Certificate owners of the applicable contaminant may any moratorium be imposed. Any such moratorium shall be lifted upon the determination by the Control Officer and public notice that Reasonable Further Progress can be demonstrated by the District.
- N. Title to an ERC shall be deemed registered at the time the required information concerning the ERC are entered into the Register.
- O. All dealings with ERCs or any interest therein, and all

liens, encumbrances, and charges upon the same subsequent to the first registration thereof, shall be deemed to be subject to the terms of this regulation, and to such amendments and alterations as may hereafter be made.

- P. The Control Officer may reissue lost or destroyed ERC Certificates after the owner vouches that the original has been lost or destroyed.

VII. Withdrawal, Transfer, and Use of ERCs

- A. ERCs may be used at the time of, or anytime after deposit into the District's ERC Bank by the owner of the ERC Certificate to provide contemporaneous offsets for increase in onsite emissions from new or modified emission units.
- B. An ERC Certificate may be transferred or used in whole or in part and in accordance with provisions of this rule.

Transfer in whole or in part of a registered ERC Certificate shall be done in accordance with application procedures of this rule. Upon payment of application fee a new ERC Certificate, certifying the title or interest in the ERC, shall be issued and the last previous original(s) shall be cancelled. Such cancellation shall be recorded in the Banking Register.

- C. Nothing in this rule prevents the lease or temporary transfer, in whole or in part of, ERCs represented by ERC Certificates. However, all transfers shall be considered permanent until modified by application which demonstrates to the satisfaction of the Control Officer that the emissions for which the ERCs were required have either ceased or other emission reductions have been secured.
- D. All emissions reductions to be used as offsets which are not contemporaneous with emissions increases shall be transferred by application pursuant to this Rule. Reductions to be used as offsets which are contemporaneous and meet the requirements of the New and Modified Stationary Source Review Rule and the Requirements of this Rule may take place without application for ERC.

VIII. Fees and Administrative Requirements

- A. A fee of \$650 shall accompany each ERC Certificate application. The District, upon notification to the applicant, may assess reasonable additional fees should the Control Officer determine that the fee will not cover the time and effort needed to assess the merits of the application.

Upon notification that an additional fee shall be required, the applicant may withdraw an application without incurring such additional fee.

- B. The Control Officer shall determine whether an ERC Banking Certificate application is complete not later than thirty (30) calendar days following receipt of the application, or after a longer time period agreed upon in writing by both the applicant and the Control Officer.
- C. If the Control Officer determines that the application is not complete, the applicant shall be notified in writing of the decision, specifying the additional information that is required. The applicant shall have ninety (90) days to submit the requested information. Upon receipt of all requested information, the District shall have thirty (30) days to determine completeness. If no data is submitted or the application is still incomplete, the Control Officer may cancel the ERC Banking Certificate application with written notification to applicant. Upon determination that the application is complete, the Control Officer shall notify the applicant in writing. Thereafter, only information to clarify, correct, or otherwise supplement the information submitted in the application may be requested.
- D. Withdrawal of a banking application by an applicant shall result in cancellation of the application; any re-submittal shall be evaluated using a baseline calculated as of the date of re-submittal.
- E. Upon acceptance of a complete application, the Control Officer shall have sixty (60) days to perform an initial assessment of the application. Upon completion of this initial assessment the District shall provide written notice of such to the applicant and shall also provide written notice of acceptance to ARB, EPA and publish notice in a newspaper of local and general circulation in the District. The notice shall specify the applicant and the quantity of emission reductions requested and a statement of the initial assessment.

Publication of the notice shall commence a thirty (30)

day public comment period during which the Control Officer shall accept written comments on the merits of the ERC Certificate application. Upon conclusion of this thirty (30) day period, the Control Officer shall have thirty (30) days to render a decision as to whether the Control Officer approves, conditionally approves, or denies the application. This decision shall be promptly supplied in writing to the applicant and published in a newspaper of local circulation.

The noticing requirements period shall be waived by the Control Officer if the emission reductions have already been subject to ARB, EPA and public comment. Noticing requirements shall not be waived for emissions reduction which were not formally banked and which occurred prior to January 1, 1988.

- F. The applicant or any other party may appeal the Control Officer's decision following provisions specified in the District's Regulation V.
- G. The District shall Maintain a Bank Register, which shall consist of a record of all deposit applications, deposits, withdrawals, and transactions with regard to the District's ERC Bank.



Chevron U.S.A. Inc.
P.O. Box 1392, Bakersfield, CA 93302

March 16, 1992

133

R. J. Work
Manager — Environmental, Safety, Fire & Health
Western Production Business Unit

**HYDROCARBON EMISSION REDUCTION
CREDITS FOR THE CENTRAL AND
WESTERN SOURCES**

**Mr. William Roddy
Kern County Air Pollution Control District
2700 'M' Street, Suite 275
Bakersfield, CA 93301**

Gentlemen:

In a recent letter to Mr. Michael Buss of the District, Chevron requested that VOC offsets for our Central Source be processed and added to our internal profile. Similar VOC offsets have already been processed and added to our Western Source Profile (KCAPCD Project #910401).

In light of the March 19 filing deadline, we are submitting applications for the conversion of hydrocarbon offsets in our internal profiles for both the Central and Western Sources into Emission Reduction Credit Banking Certificates.

Under the current ERC Rule 230.1, if the district had an existing banking rule, there are no allowances for converting pre 1988 internal profiles into SJVUAPCD banking certificates. However, the District is reviewing this portion of the rule and it is still unresolved. We are requesting that you defer processing these applications until a decision has been reached concerning this matter.

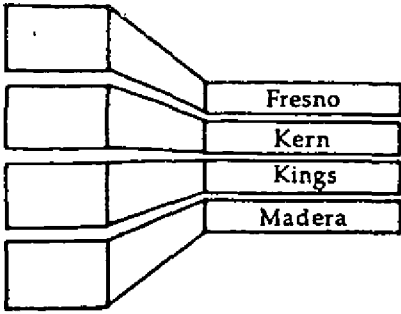
Attached are two application, one for the Central Source and one for the Western Source, for converting our HC profiles into ERCs. A check for \$1,300.00 to cover application fees is also included. Last are copies of the correspondence requesting that the VOC offsets be added to our profiles.

If you have any questions, contact Mr. Michael Kelly at 633-4457 or Mr. Kelly Skeels at 633-4458.

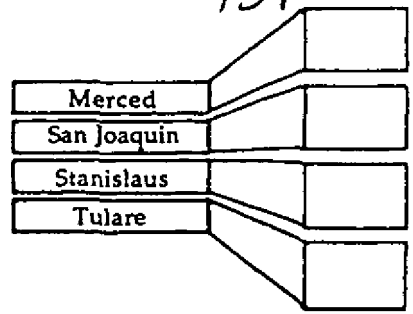
Sincerely,

K.P. Skeels For/
R. J. Work

134



San Joaquin Valley
Unified Air Pollution Control District



*Project
K. W. di*

March 23, 1992

RECEIVED

DEC 14 1992

SAN JOAQUIN VALLEY UNIFIED
APCD - SOUTHERN REGION

District Board Members

- Rick Jensen, Chair
Supervisor Madera County
- Pauline Larwood, Vice Chair
Supervisor Kern County
- Joe Hammond
Supervisor Kings County
- Mike Bogna
Supervisor Merced County
- Bill Sousa
Supervisor San Joaquin County
- Nick Blom
Supervisor Stanislaus County
- Clyde Gould
Supervisor Tulare County
- Doug Vagim
Supervisor Fresno County

Mr. R.J. Work
Manager - Environmental Safety, Fire & Health
Chevron U.S.A., Inc.
P.O. Box 1392
Bakersfield, CA 93302

SUBJECT: Emission Reduction Credit Application for Central and Western
Stationary Source

Dear Mr. Work:

In lieu of denial, the San Joaquin Valley Unified APCD is returning your applications for banking pre-1988 emissions reduction credits for your Central and Western Stationary Sources. Your check, number 317-32708 for the associated filing fees is also enclosed.

Pursuant to Rule 230.1 - Emission Reduction Credit Banking, only pre-1988 emissions reductions previously recognized by a banking certificate are eligible for SJVUAPCD ERC certificates. Should Rule 230.1 be amended to allow for banking of pre-1988 emissions reductions, provisions of the amended rule could authorize submission of your request at such time.

Thank you for your consideration in this matter. If you have any questions, please telephone Mr. Thomas Goff of the Engineering Evaluation Section at (805) 861-3682.

Sincerely,

WILLIAM J. RODDY
AIR POLLUTION CONTROL OFFICER (SED)
ASST. AIR POLLUTION CONTROL OFFICER (SJVUAPCD)

for *Patty Lee Young*

Thomas Goff, P.E.
Supervisor, Engineering Division

TEG/cs
Enclosures

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

2700 "M" Street, Suite 275 Bakersfield, California 93301 Telephone: (805) 861-3682

135

APPLICATION FOR:

- | | | |
|---|--|---|
| <input type="checkbox"/> Authority to Construct (ATC) | <input type="checkbox"/> Permit to Operate (PTO) | <input checked="" type="checkbox"/> Banking Certificate |
| <input type="checkbox"/> ATC - Modification | <input type="checkbox"/> PTO - Modification | <input type="checkbox"/> Transfer of Location |
| <input type="checkbox"/> ATC - Renewal | <input type="checkbox"/> PTO - Transfer of Ownership | |

AN APPLICATION IS REQUIRED FOR EACH SOURCE OPERATION AS DEFINED IN RULE 102, SECTION 02.

1. PERMIT TO BE ISSUED TO: Name of organization to operate the following equipment:
Chevron U. S. A. Inc.

2. MAILING ADDRESS:
P. O. Box 1392, Bakersfield, CA Zip Code: 93302

3. LOCATION AT WHICH THE EQUIPMENT IS TO BE OPERATED:
Western Oil Source

4. GENERAL NATURE OF BUSINESS:
Production of crude oil and natural gas.

5. EQUIPMENT FOR WHICH APPLICATION IS MADE:

Convert internal profile for hydrocarbons into SJVUAPCD Banking Certificates. Chevron currently has 2248 lbs/day of offsets on their internal profile to be converted into ERCs.

Provide additional information as required by District "Instructions".

6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

7. TYPE AND ESTIMATED COST OF BASIC PROCESS EQUIPMENT:

8. SIGNATURE OF APPLICANT: <i>K P Steels Jr</i>	TITLE OF SIGNER: MANAGER - EFS&H
---	--

9. TYPE OR PRINT NAME OF SIGNER: R. J. WORK	DATE: March 16, 92	PHONE NO.: (805) 633-4456
---	------------------------------	-------------------------------------

DATE RECEIVED	Validation (For APCD Use Only)	
	FILING FEE: \$ _____	RECEIPT NO.: _____
	DATE: _____	

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

136

2700 "M" Street, Suite 275

Bakersfield, California 93301

Telephone: (805) 861-3682

APPLICATION FOR:

- | | | |
|---|--|---|
| <input type="checkbox"/> Authority to Construct (ATC) | <input type="checkbox"/> Permit to Operate (PTO) | <input checked="" type="checkbox"/> Banking Certificate |
| <input type="checkbox"/> ATC - Modification | <input type="checkbox"/> PTO - Modification | <input type="checkbox"/> Transfer of Location |
| <input type="checkbox"/> ATC - Renewal | <input type="checkbox"/> PTO - Transfer of Ownership | |

AN APPLICATION IS REQUIRED FOR EACH SOURCE OPERATION AS DEFINED IN RULE 102, SECTION cc.

<p>1. PERMIT TO BE ISSUED TO: Name of organization to operate the following equipment: Chevron U. S. A. Inc.</p>		
<p>2. MAILING ADDRESS: P. O. Box 1392, Bakersfield, CA Zip Code: 93302</p>		
<p>3. LOCATION AT WHICH THE EQUIPMENT IS TO BE OPERATED: Central Oil Source</p>		
<p>4. GENERAL NATURE OF BUSINESS: Production of crude oil and natural gas.</p>		
<p>5. EQUIPMENT FOR WHICH APPLICATION IS MADE:</p> <p>Convert internal profile for hydrocarbons into SJVUAPCD Banking Certificates. Chevron currently has 5,715.11 lbs/day of offsets on their internal profile to be converted into ERCs.</p> <p>Provide additional information as required by District "Instructions".</p>		
<p>6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:</p>		
<p>7. TYPE AND ESTIMATED COST OF BASIC PROCESS EQUIPMENT:</p>		
<p>8. SIGNATURE OF APPLICANT: K. P. Skeels <i>[Signature]</i></p>		<p>TITLE OF SIGNER: MANAGER - EFS&H</p>
<p>9. TYPE OR PRINT NAME OF SIGNER: R. J. WORK</p>		<p>DATE: March 11, 92</p> <p>PHONE NO.: (805) 633-4456</p>
<p align="center">DATE RECEIVED</p>	<p>Validation (For APCD Use Only)</p>	
	<p>FILING FEE: \$ _____ RECEIPT NO.: _____</p> <p>DATE: _____</p>	



Chevron U.S.A. Production Company
P.O. Box 1392, Bakersfield, CA 93302

May 7, 1993

W. A. Brommelsiek
Manager - Environmental, Safety, Fire & Health
Western Business Unit

**EMISSION REDUCTION CREDITS FOR
INSTALLATION OF CASING
COLLECTION FROM PRE- APRIL 25,
1983 VOC REDUCTIONS
APPLICATION #'S 4008302/501
4008317/501 PROJECT # 921117**

Mr. Thomas E. Goff
SJVUAPCD - Southern Zone
2700 "M" Street, Suite 275
Bakersfield, Ca 93301

Attn.: Mr. Robert Rinaldi

Gentlemen:

This correspondence is regarding the outstanding issue of whether or not Chevron needs to supply further offsets for previously approved projects. After reviewing the profiles we believe that 52.7 lbm/day should be subtracted from our ERC application. Please subtract this amount evenly from each location for the Western Source project.

We made the above determination in the following manner:

- A. *Current Western Source profile equals 257.2 lbm/day HC. (This includes a 10 generator project 4008591 - ...600 for 39.9 lbm and the 31X project to increase TVP 4224001A - ...009A, &4224011A -0 ...014A.)*
- B. *A 1Y CCS project, APCD # 4008835, was not shown on the profile. This represented a total of 236 lbm/day HC that had to be offset. (CCS fugitive equal 153.75 plus 82.25 lmb/day for polish rod fugitives.)*
- C. *A project to increase the well counts on two existing casing collection systems located on section 36 (29/21) (APCD # 4008317J & 4008352G) was also not listed on the profile. This project included a total of 187.94 lbm/day HC emissions. (An incremental of 135.30 for the CCS and 52.64 for polish rod fugitives.)*

A., B., & C. represents a total of 681.18 lbm/day HC.

- D. *Our original application to re-establish the HC emissions was for 2726.48 lbm/day.*
- E. *The application for ERCs was for 2248.00 lbm/day.*

This represents a difference of 478.48 lbm/day between the two applications. This difference was used to offset the above projects. This 478.48 plus the 150 lbm/day growth allowance subtracted from the 681.18 lbm/day for projects leaves a balance of 52.70. This corresponds to the amount needed to offset the polish rod fugitives for the 36W project mentioned above. See the attached table for additional information.

If you have further questions please contact Mr. Kelly Skeels at (805) 633-4458.

Sincerely,
K. P. Skeels 
W. A. Brommelsiek

KPS

VOCERCR3

CHEVRON HC ERC APPLICATION PROJECT 921117

PROFILE OFFSETS NEEDED VERSES OFFSETS SUPPLIED		
PROJECT	HC LBM/DAY	COMMENTS
CURRENT PROFILE	257.24	INCLUDES 31X TVR (141) AND 10 GENERATOR PACKAGE (39.9)
1Y CCS FUGITIVE ²	153.75	
1Y POLISH ROD FUGITIVE	82.25	
36W CCS 1 & 2 FUGITIVES ²	135.30	INCREMENTAL INCREASE FROM PREVIOUSLY PERMITTED SYSTEM
36W POLISH ROD FUG. INCREMENTAL	52.64	INCREMENTAL INCREASE FROM PREVIOUSLY PERMITTED SYSTEM
TOTAL ALL PROJECTS	681.18	
ORIGINAL RE-ESTABLISHMENT	2726.48	
HC ERC APPLICATION	2248.00	
USED AS OFFSETS	-478.48	THIS AMOUNT WAS USED TO OFFSET THE ABOVE PROJECTS
OFFSET NEEDED	681.18	
OFFSETS SUPPLIED	-478.48	
NEEDED - SUPPLIED	202.70	
GROWTH ALLOWANCE	150.00	
OUTSTANDING HC EMISSIONS	52.70	THIS IS THE AMOUNT OF OFFSET CHEVRON STILL NEEDS TO PROVIDE. THIS AMOUNT CORRESPONDS TO THE 36W 1 & 2 POLISH ROD FUGITIVES.

139

AUTHORITY TO CONSTRUCT

2700 "M" Street, Suite 275
 Bakersfield, CA 93301
 (805) 861-3682



William J. Roddy
 Air Pollution Control Officer

ISSUE DATE:	October 18, 1991	APPLICATION NO.	4008317J
EXPIRATION DATE:	October 18, 1993	DATE:	June 6, 1991

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED TO:

CHEVRON U.S.A., INC.

In the event an AUTHORITY TO CONSTRUCT is reissued to a new owner, any emissions increase assigned to this equipment during initial New Source Review Process remains with the initial bearer of this document.

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED FOR :

Modification of Existing TEOR Operation 36-CC-1: Add 80 Steam-Drive Wells (for a total of 146 Steam-Drive Wells.

(See attached sheets for equipment description and conditions)

S	T	R	Location :	Start-up Inspection Date :
36	29S	21E	36-CC-1, Cymric Field	

Upon completion of construction and/or installation, please telephone the Manager of Engineering. This document serves as a TEMPORARY Permit to Operate only as provided by Rule 201 of the District's Rules and Regulations. For issuance of a Permit to Operate, Rule 206 requires that the equipment authorized by this AUTHORITY TO CONSTRUCT be installed and operated in accordance with the conditions of approval. Changes to these conditions must be made by application and must be approved before such changes are made. This document does not authorize the emission of air contaminants in excess of New Source Review limits (Rule 201) or Regulation IV emission limits. Emission testing requirements set forth in this document must be satisfied before a Permit to Operate can be granted.

Validation Signature :

Michael R. Bus
 For Manager of Engineering

4008317J
Continued

EQUIPMENT DESCRIPTION: Modification of Existing TEOR Operation 36-CC-1: Add 80 Steam-Drive Wells (for a total of 146 Steam-Drive Wells, including the following equipment and design specifications:

A. Well vent vapor collections system piping network serving pipeline vent pot 1, and the following steam-drive wells:

1. The following 66 steam drive wells (existing):

1-1A, 1-1C, 1-2A, 1-2B, 1-3, 1-3A, 1-4B, 1-5B, 2-3A, 2-3B, 2-3C, 2-4A, 2-4B, 2-5B, 2-6A, 3-3B, 3-4B, 3-5, 3-5A, 3-5B, 3-6, 3-6A, 4-2A, 4-3B, 4-4, 4-4B, 4-5, 4-6, 4-6A, 4-6B, 4-7A, 5-3A, 5-4B, 5-4C, 5-4D, 5-5A, 5-5B, 5-5C, 5-6, 5-7, 5-7A, 6-6, 9-2A, 9-3, 10-1, 10-AB, 10-2, 10-3, 11-1C, 11-2C, 11-2D, 11-3B, 11-3C, 11-3D, 11-4A, 12-A, 21-4A, 23-3A, 23-4B, 24-5A, 25-4B, 26-7A, 26-7B, 211-1 and 211-1A, (existing)

2. Plus 80 steam-drive wells to be named at a future date (system total shall not exceed 146 steam drive wells),

- B. Gas/liquid separator, (existing)
- C. Air-cooled heat exchanger, (existing)
- D. Condensate holding tank, (existing)
- E. Gas compressor, (existing)
- F. Air-cooled heat exchanger (shared with #4008352 and '085), (modified)
- G. Sulfa-check contactor vessel (shared with #4008352 and '085), (modified)
- H. Outlet gas knockout (shared with #4008352 and '085), (modified)
- I. Two liquid traps (shared with #4008352 and '085), (modified)
- J. Centrifugal transfer pump (shared with #4008352 and '085), (modified)
- K. Two 200 bbl chemical storage tanks (shared with #4008352 and '085), (modified)
- L. One 250 bbl chemical waste storage tank (shared with #4008352 and '085), (modified)
- M. Volume flow rate indicator, (new)
- N. Piping from item G (scrubbed vapors) to the 36W cogenerators noncondensibles incineration system, (existing)
- O. Piping (serving unscrubbed vapors) to the following steam generators burners (#4008031, 4008085-090). (new)

CONDITIONAL APPROVAL:

Pursuant to Rule 209, "conditional approval" is hereby granted. Please be aware that all conditions of approval remain in effect for life of project unless modifications are approved by District.

DESIGN CONDITIONS:

- 1. Noncondensibles piping to incineration system shall be equipped with temperature indicator. (Rule 209)
- 2. Pipeline vent pot 1 shall be connected to TEOR system #4008317J. (Rule 210.1)
- 3. Noncondensibles vapor piping to incineration devices shall be equipped with volume flow rate indicator. (Rule 209)

AMB

4008317J
Continued

OPERATIONAL CONDITIONS:

- a. Sulfa-Check scrubbers shall be maintained and operated so as to remove H₂S from TEOR operations #4008317 and '352 casing vapors when casing gas is incinerated in cogeneration duct burners. (Rule 210.1)
- b. Noncondensable gases leaving Sulfa-Check scrubber shall be incinerated in previously approved 36W cogenerators noncondensibles incineration system. (Rule 210.1)
- c. The maximum amount of H₂S incinerated in the cogeneration duct burners shall not exceed 76.4 lbm/day (the mass rate corresponding to an H₂S concentration of 1066 ppmv and a casing gas flow rate of 800,000 cf/day and fuel gas sulfur content of 3 ppmv. (Rule 210.1)
- d. If noncondensable vapor combustion sources are inoperative, vapors shall not be vented to atmosphere. (Rules 210.1 & 465.1)
- e. Well vent vapor flow to cogenerators incineration system shall be completely shut off when Sulfa-Check is being changed. (Rule 209)
- f. Fresh Sulfa-Check liquor shall be kept on site in storage tanks. (Rule 209)
- g. Sulfur collected in scrubbers shall be drained into Sulfa-Check waste storage tank and removed by vacuum truck to approved dumpsite. (Rule 209)
- h. Fresh and spent Sulfa-Check handling, storage, loading, and disposal shall not be source of hydrocarbon or sulfur compound emissions. (Rule 210.1)
- i. Emissions from cogenerators and steam generators utilized as incineration devices shall not increase as result of this project. (Rule 210.1)
- j. Collected liquids shall be handled, stored, and disposed of in a manner preventing air contaminant emissions. (Rule 209)
- k. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. (Rule 465.1)
- l. TEOR gas shall not exceed 4% by volume nonmethane hydrocarbons without prior District approval. (Rule 210.1)
- m. Total volume of TEOR gas from #4008317J collection system shall not exceed 1.5 MM SDCF/day.
- n. Operation shall not result in odors detectable at or beyond property boundary. (Rule 419)
- o. No emission shall cause injury, detriment, nuisance, or annoyance or endanger the comfort, repose, health or safety of any persons or have a natural tendency to cause injury or damage to business or property. (Rule 419)
- p. Total number of vapor collection system leaks shall not exceed number allowed by Rule 465.1. (Rule 465.1)
- q. Chevron USA Inc. shall comply with all testing and recordkeeping requirements of Rule 465.1. (Rule 465.1)
- r. An Inspection and Maintenance program, consistent with the requirements of Rule 465.3 for Light Oil Sources, shall be implemented to minimize polish rod/stuffing box fugitive emissions on the wells listed under equipment description A.2. (Rule 210.1 BACT Requirement)

4008317J
Continued

SPECIAL CONDITION:

Wells producing from strata into which steam has been injected shall be connected to District-approved well head casing vent vapor control system(s) or shall have well head casing vents closed and production routed to facilities with District-approved vapor control system(s).
(Rules 210.1 & 465.1)

EMISSION SAMPLING LIMITS:

<u>Hydrocarbons:</u>	11.46 lbm/hr	(Rule 210.1)	(Casing Collection System Fugitives)
	1.10 lbm/hr	(Rule 210.1)	(Polish Rod Fugitives)

NOTE:

- Full quantification of well vent vapor collection/control system condensate handling, storage, and disposal emissions shall not be required until an accurate, repeatable test method is available for the determination of heavier hydrocarbon vapor pressures. At that time, compliance with applicable rules will be required.

STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

STATIONARY SOURCE CURTAILMENT PLANS AND TRAFFIC ABATEMENT PLANS:

Facilities expected to emit 100 tons per year or more of carbon monoxide, hydrocarbons, PM-10 or oxides of nitrogen shall comply with KCAPCD Rule 613.

RULE 210.1 (NSR) ANALYSIS VALIDATION:

Maximum daily emission rate of each air contaminant from this emissions unit shall not exceed the following daily emissions limitations:

<u>Hydrocarbons:</u>	275.06 lbm/day	(Rule 210.1)	(Casing Collection Fugitives)
	30 wells - 26.32 lbm/day	(Rule 210.1)	(Polish Rod Fugitives)

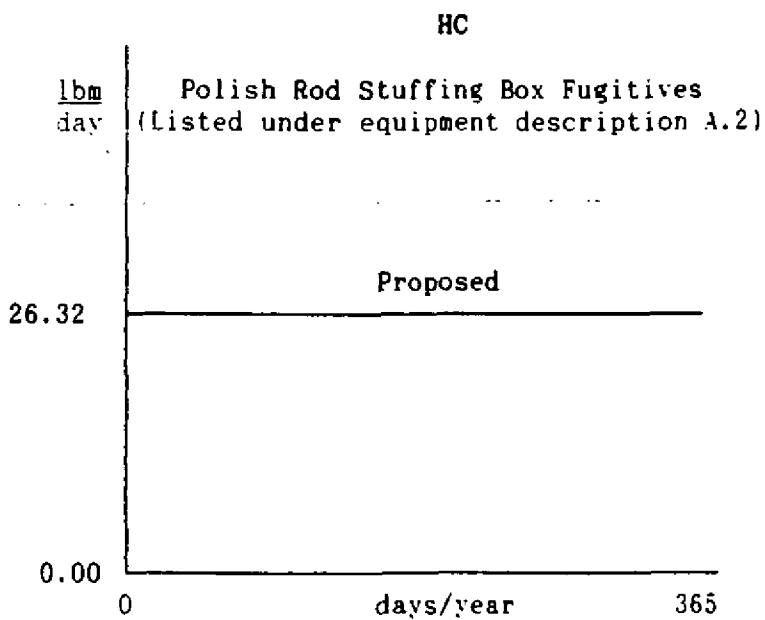
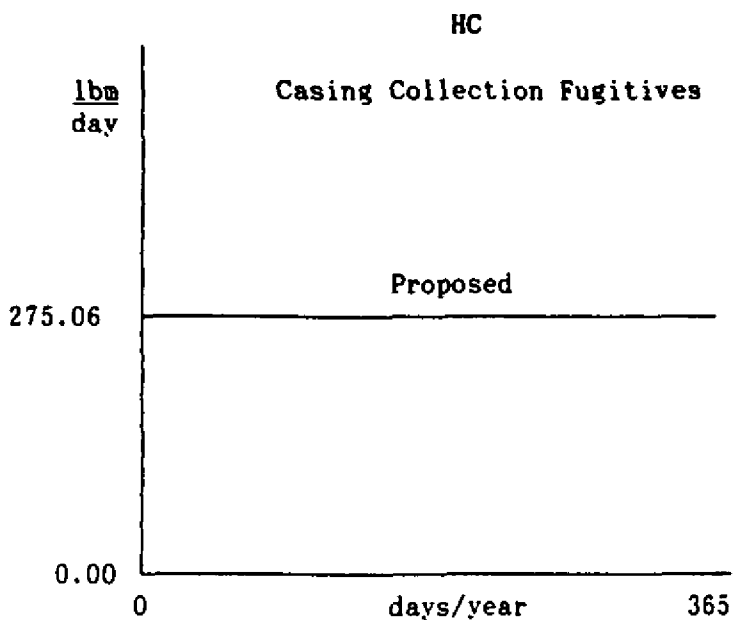
Compliance with these daily emissions limitations shall be verified by source operator (with TEOR flow rate data, operational data, etc.) on daily basis and written documentation made readily available to District for period of three years.

RULE 210.1 (NSR) DAILY EMISSION LIMITATIONS: (See attached.)

MRB

DAILY EMISSIONS LIMITATIONS

lbm/day



MRB

AUTHORITY TO CONSTRUCT

2700 "M" Street, Suite 275
 Bakersfield, CA 93301
 (805) 861-3682



William J. Roddy
 Air Pollution Control Officer

ISSUE DATE:	10/18/91 October 18, 1991	APPLICATION NO.	4008352G
EXPIRATION DATE:	October 18, 1993	DATE:	June 6, 1991

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED TO:

CHEVRON U.S.A., INC.

In the event an AUTHORITY TO CONSTRUCT is reissued to a new owner, any emissions increase assigned to this equipment during initial New Source Review Process remains with the initial bearer of this document.

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED FOR :

Modification of Existing TEOR Operation 36-CC-2: Add 80 Steam-Drive Wells (for a total of 146 Steam-Drive Wells).

(See attached sheets for equipment description and conditions)

S	T	R	Location :	Start-up Inspection Date :
36	29S	21E	36-CC-2, Cymric Field	

Upon completion of construction and/or installation, please telephone the Manager of Engineering. This document serves as a TEMPORARY Permit to Operate only as provided by Rule 201 of the District's Rules and Regulations. For issuance of a Permit to Operate, Rule 208 requires that the equipment authorized by this AUTHORITY TO CONSTRUCT be installed and operated in accordance with the conditions of approval. Changes to these conditions must be made by application and must be approved before such changes are made. This document does not authorize the emission of air contaminants in excess of New Source Review limits (Rule 210.1) or Regulation IV emission limits. Emission testing requirements set forth in this document must be satisfied before a Permit to Operate can be granted.

Validation Signature :

Michael R. Buss
 Manager of Engineering

4008352G
Continued

EQUIPMENT DESCRIPTION: Modification of Existing TEOR Operation 36-CC-2: Add 80 Steam-Drive Wells (for a total of 146 Steam-Drive Wells, including the following equipment and design specifications:

- A. Well vent vapor collection piping network serving pipeline vent pots 2 and 3 and the following steam-drive wells:
 - 1. The following 64 steam drive wells (existing): 5-8B, 5-8C, 5-8D, 6-4A, 6-4B, 6-5, 6-5B, 6-7B, 6-8, 6-8C, 6-9C, 6-9R, 7-5B, 7-6B, 7-6C, 7-8B, 7-8R, 7-9B, 7-10, 7-10B, 7-10C, 7-11A, 7-12, 8-6B, 8-7A, 8-8, 8-8B, 8-8C, 8-9A, 8-9B, 8-10, 8-10B, 8-10C, 8-10D, 8-10D, 8-11, 8-12A, 8-12B, 8-13B, 9-7A, 9-8A, 9-9, 9-9A, 9-10B, 9-11, 9-11A, 9-12, 9-12A, 9-13A, 10-8B, 10-8C, 10-9, 10-9A, 10-10, 10-11A, 10-12, 10-12A, 26-5A, 26-6, 27-7, 27-7A, 27-8A, 28-8, 29-9, 29-10 (existing) 2 unnamed (previously approved)
 - 2. Plus 80 steam-drive wells to be named at a future date (system total shall not exceed 146 steam drive wells), (new)
- B. Gas/liquid separator, (existing)
- C. Air-cooled heat exchanger, (existing)
- D. Condensate holding tank, (existing)
- E. Gas compressor, (existing)
- F. Air-cooled heat exchanger (shared with #4008317 and '085), (modified)
- G. Sulfa-check contactor vessel (shared with #4008317 and '085), (modified)
- H. Outlet gas knockout (shared with #4008317 and '085), (modified)
- I. Two liquid traps (shared with #4008317 and '085), (modified)
- J. Centrifugal transfer pump (shared with #4008317 and '085), (modified)
- K. Two 200 bbl chemical storage tanks (shared with #4008317 and '085), (modified)
- L. One 250 bbl chemical waste storage tank (shared with #4008317 and '085), (modified)
- M. Volume flow rate indicator, (new)
- N. Piping from item G (scrubbed vapors) to the 36W cogenerators noncondensibles incineration system, (existing)
- O. Piping (serving unscrubbed vapors) to 36W steam generator noncondensibles incineration system. (new)

CONDITIONAL APPROVAL:

Pursuant to Rule 209, "conditional approval" is hereby granted. Please be aware that all conditions of approval remain in effect for life of project unless modifications are approved by District.

DESIGN CONDITIONS:

- 1. Noncondensibles piping to incineration system shall be equipped with temperature indicator. (Rule 209)
- 2. Pipeline vent pots 2 and 3 shall be connected to TEOR system #4008352G. (Rule 210.1)
- 3. Noncondensibles vapor piping to incineration devices shall be equipped with volume flow rate indicator. (Rule 209)

MRB

4008352G
Continued

OPERATIONAL CONDITIONS:

- a. Sulfa-Check scrubbers shall be maintained and operated so as to remove H2S from TEOR operations #4008317 and '352 casing vapors when casing gas is incinerated in cogeneration duct burners. (Rule 210.1)
- b. Noncondensable gases leaving Sulfa-Check scrubber shall be incinerated in previously approved 36W cogenerators noncondensibles incineration system. (Rule 210.1)
- c. The maximum amount of H2S incinerated in the cogeneration duct burners shall not exceed 76.4 lbm/day (the mass rate corresponding to an H2S concentration of 1066 ppmv and a casing gas flow rate of 800,000 cf/day and fuel gas sulfur content of 3 ppmv. (Rule 210.1)
- d. If noncondensable vapor combustion sources are inoperative, vapors shall not be vented to atmosphere. (Rules 210.1 & 465.1)
- e. Well vent vapor flow to cogenerators incineration system shall be completely shut off when Sulfa-Check is being changed. (Rule 209)
- f. Fresh Sulfa-Check liquor shall be kept on site in storage tanks. (Rule 209)
- g. Sulfur collected in scrubbers shall be drained into Sulfa-Check waste storage tank and removed by vacuum truck to approved dumpsite. (Rule 209)
- h. Fresh and spent Sulfa-Check handling, storage, loading, and disposal shall not be source of hydrocarbon or sulfur compound emissions. (Rule 210.1)
- i. Emissions from cogenerators and steam generators utilized as incineration devices shall not increase as result of this project. (Rule 210.1)
- j. Collected liquids shall be handled, stored, and disposed of in a manner preventing air contaminant emissions. (Rule 209)
- k. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. (Rule 465.1)
- l. TEOR gas shall not exceed 4% by volume nonmethane hydrocarbons without prior District approval. (Rule 210.1)
- m. Total volume of TEOR gas from #4008352G collection system shall not exceed 1.5 MM SDCF/day.
- n. Operation shall not result in odors detectable at or beyond property boundary. (Rule 419)
- o. No emission shall cause injury, detriment, nuisance, or annoyance or endanger the comfort, repose, health or safety of any persons or have a natural tendency to cause injury or damage to business or property. (Rule 419)
- p. Total number of vapor collection system leaks shall not exceed number allowed by Rule 465.1. (Rule 465.1)
- q. Chevron USA Inc. shall comply with all testing and recordkeeping requirements of Rule 465.1. (Rule 465.1)
- r. An Inspection and Maintenance program, consistent with the requirements of Rule 465.3 for Light Oil Sources, shall be implemented to minimize polish rod/stuffing box fugitive emissions on the wells listed under equipment description A.2. (Rule 210.1 BACT Requirement)

MRB

4008352G
Continued

SPECIAL CONDITION:

Wells producing from strata into which steam has been injected shall be connected to District-approved well head casing vent vapor control system(s) or shall have well head casing vents closed and production routed to facilities with District-approved vapor control system(s).
(Rules 210.1 & 465.1)

EMISSION SAMPLING LIMITS:

<u>Hydrocarbons:</u>	11.46 lbm/hr (Rule 210.1)	(Casing Collection System Fugitives)
	1.10 lbm/hr (Rule 210.1)	(Polish Rod Fugitives)

NOTE:

- * Full quantification of well vent vapor collection/control system condensate handling, storage, and disposal emissions shall not be required until an accurate, repeatable test method is available for the determination of heavier hydrocarbon vapor pressures. At that time, compliance with applicable rules will be required.

STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

STATIONARY SOURCE CURTAILMENT PLANS AND TRAFFIC ABATEMENT PLANS:

Facilities expected to emit 100 tons per year or more of carbon monoxide, hydrocarbons, PM-10 or oxides of nitrogen shall comply with KCAPCD Rule 613.

RULE 210.1 (NSR) ANALYSIS VALIDATION:

Maximum daily emission rate of each air contaminant from this emissions unit shall not exceed the following daily emissions limitations:

<u>Hydrocarbons:</u>	275.06 lbm/day (Rule 210.1)	(Casing Collection Fugitives)
	26.32 lbm/day (Rule 210.1)	(Polish Rod Fugitives)

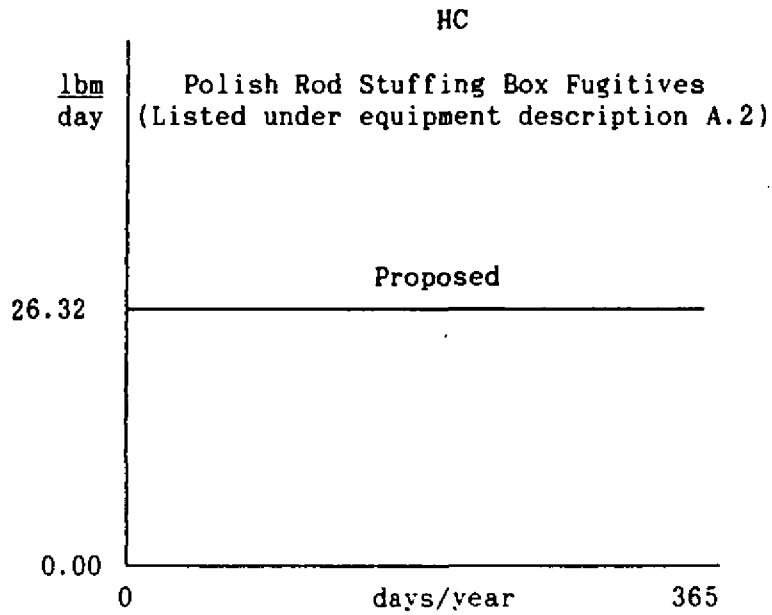
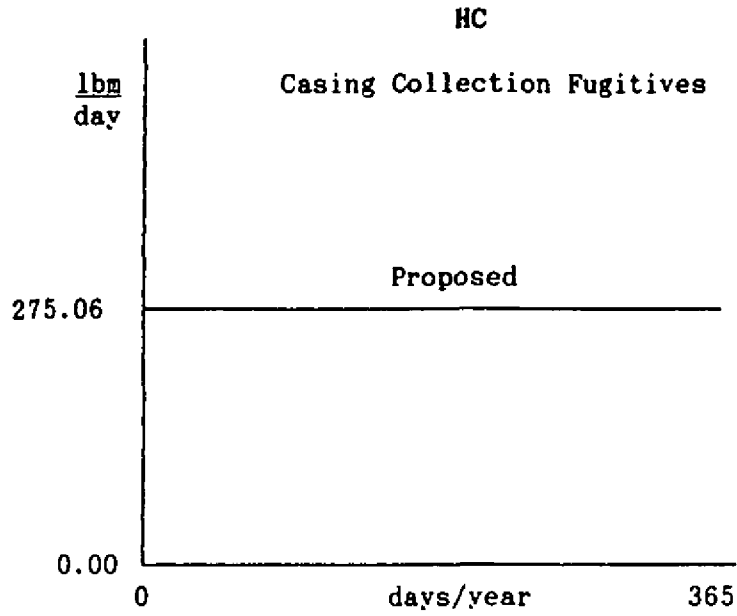
Compliance with these daily emissions limitations shall be verified by source operator (with TEOR flow rate data, operational data, etc.) on daily basis and written documentation made readily available to District for period of three years.

RULE 210.1 (NSR) DAILY EMISSION LIMITATIONS: (See attached.)

MRB

DAILY EMISSIONS LIMITATIONS

lbm/day



200

AUTHORITY TO CONSTRUCT

2700 "M" Street, Suite 275
 Bakersfield, CA 93301
 (805) 861-3682



William J. Roddy
 Air Pollution Control Officer

ISSUE DATE:	October 18, 1991	APPLICATION NO.	4008835
EXPIRATION DATE:	October 18, 1993	DATE:	June 6, 1991

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED TO:

CHEVRON U.S.A., INC.

In the event an AUTHORITY TO CONSTRUCT is reassigned to a new owner, any emissions increase assigned to this equipment during initial New Source Review Process remains with the initial bearer of this document.

AUTHORITY TO CONSTRUCT IS HEREBY GRANTED FOR :

TEOR Operation 1Y-CC-1 Serving 250 Cyclically-Steamed Wells.

(See attached sheets for equipment description and conditions)

S	T	R	Location :	Start-up Inspection Date :
36	29S	21E	Cymric Field	

Upon completion of construction and/or installation, please telephone the Manager of Engineering. This document serves as a TEMPORARY Permit to Operate only as provided by Rule 201 of the District's Rules and Regulations. For issuance of a Permit to Operate, Rule 208 requires that the equipment authorized by this AUTHORITY TO CONSTRUCT be installed and operated in accordance with the conditions of approval. Changes to these conditions must be made by application and must be approved before such changes are made. This document does not authorize the emission of air contaminants in excess of New Source Review limits (Rule 210) or Regulation IV emission limits. Emission testing requirements set forth in this document must be satisfied before a Permit to Operate can be granted.

Validation Signature :

Michael R. Buss
 Manager of Engineering

4008835
Continued

EQUIPMENT DESCRIPTION: TEOR Operation 1Y-CC-1 Serving 250 Cyclically-Steamed Wells, including the following equipment and design specifications:

A. Well vent vapor collection system piping network serving pipeline vent pot 1, and the following cyclically-steamed wells:

1. The following 138 cyclically-steamed wells:
(Well gauge settings--note all production is routed to 1Y GS#5)

#4,1YLP: 1502SHP, 1504I, 1704DHP, 1704E, 1704J, 1805SHP, 1807E, 1910SHP, 2003S, 2007SHP, 2108E, 2108SHP, 2108T, 2207SHP,

#4,1YHP: 1504S, 1505S, 1603S, 1605S, 1704S, 1706S, 1807S, 1902D, 1907S, 1908S, 2102S, 2106S, 2203S, 2205S,

#5,1Y: 1003S, 1019S36W, 1102S, 1104S, 1120S36W, 1204S, 1205S, 1302D, 1304I, 1320S36W, 1322S36W, 1401E, 1403S, 1702C,

#6,1Y: 0221S36W, 0322S36W, 0417S36W, 0502D, 0518S36W, 0520I36W, 0601S, 0603S, 0702S, 0704S, 0801S, 0819S36W, 2118S35W,

#7,1Y: 0807S, 0904S, 0906S, 1007S, 1106S, 1108S, 1207S, 1209S, 1304S, 1306I, 1306S, 1308S, 1310S, 1405S, 1470S, 1409I, 1409S, 1411S, 1506S,

#8,1Y: 1514I, 1613S, 1714S, 1716S, 1813S, 1815S, 1912S, 1914S, 1916R, 2013S, 2015S, 2017S, 2112S, 2114S, 2116S, 2118S, 2211S, 2213S, 2214S, 2215S, 2217S, 2312S, 2314S, 2316S, 2318S,

#11,1Y: 1508S, 1510S, 1512S, 1670S, 1690S, 1610S, 1611S, 1708S, 1710S, 1712S, 1809S, 1811S, 2009S, 2011S, 2110S, 2209S, 2310S,

#4,6Z: 1017S6Z, 1019T6Z, 1019S6Z, 1019I6Z, 1019D6Z, 1021S6Z, 1114J6Z, 1116S6Z, 1219S6Z, 1219J6Z,

#5,6Z: 0815S6Z, 0817S6Z, 0819I6Z, 0821S6Z, 0916T6Z, 0920S6Z,

#1,35W: 0116S36W, 1316S35W, 1514S35W, 1817S35W, 1916S35W,

2. Plus 112 cyclically-steamed wells to be named at a future date (system total shall not exceed 250 cyclically-steamed wells.

- B. One gauge vessel (closed vessel) 30 ft. long x 6 ft. dia., located at 1Y-GS#5,
- C. One 8 ft. x 40 ft. gas/liquid separator,
- D. One 4 ft. x 10 ft. gas/liquid separator with condensate pumps,
- E. Noncondensable vapors volume flow rate indicator, (new)
- F. Noncondensibles piping to the 36W steam generators (4008031, 4008085-090) noncondensibles incineration system.
- G. Diverter valve, and piping, tying 1Y-CC-1 gas discharge line to the 36W-CC-2 TEOR gas collection network. (PTO 4008352)

MRB

4008835
Continued

CONDITIONAL APPROVAL:

Pursuant to Rule 209, "conditional approval" is hereby granted. Please be aware that all conditions of approval remain in effect for life of project unless modifications are approved by District.

DESIGN CONDITIONS:

Noncondensibles piping to incineration devices shall be equipped with volume flow rate indicator. (Rule 209)

OPERATIONAL CONDITIONS:

- a. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 99% by weight. (Rule 465.1)
- b. Noncondensable vapors shall be incinerated in the 36W steam generators 4008031, 4008085-'090. (Rule 209)
- c. If incinerating steam generators are inoperative, vapors shall not be vented to atmosphere. (Rules 210.1 and 465.1)
- d. Noncondensable vapors shall only be diverted to 36W-CC-2 TEOR gas collection network (PTO 4008352) if incinerating steam generators are inoperative pursuant to a Rule 111 breakdown condition. (Rules 209 and 111)
- e. TEOR gas shall not exceed 4% by volume nonmethane hydrocarbons without prior District approval. (Rule 210.1)
- f. Total volume of noncondensable vapors from TEOR system shall not exceed 2.5 MM SDCP/day. (Rule 209)
- g. Operation shall not result in odors detectable at or beyond property boundary. (Rule 419)
- h. No emission shall cause injury, detriment, nuisance, or annoyance or endanger the comfort, repose, health or safety of any persons or have a natural tendency to cause injury or damage to business or property. (Rule 419)
- i. Total number of vapor collection system leaks shall not exceed number allowed by Rule 465.1. (Rule 465.1)
- j. Chevron USA Inc. shall comply with all testing and recordkeeping requirements of Rule 465.1. (Rule 465.1)
- k. An Inspection and Maintenance program, consistent with the requirements of Rule 465.3 for Light Oil Sources, shall be implemented to minimize polish rod/stuffing box fugitive emissions on the wells listed under equipment description A.2. (Rule 210.1 BACT Requirement)

SPECIAL CONDITION:

Wells producing from strata into which steam has been injected shall be connected to District-approved well head casing vent vapor control system(s) or shall have well head casing vents closed and production routed to facilities with District-approved vapor control system(s).
(Rules 210.1 & 465.1)

MFB

4008835
Continued

EMISSION SAMPLING LIMITS:

<u>Hydrocarbons:</u>	6.42 lb/hr	(Rule 210.1)	(Collection System Fugitives)
	1.10 lb/hr	(Rule 210.1)	(Polish Rod Stuffing Box Fugitives)

STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

STATIONARY SOURCE CURTAILMENT PLANS AND TRAFFIC ABATEMENT PLANS:

Facilities expected to emit 100 tons per year or more of carbon monoxide, hydrocarbons, PM-10 or oxides of nitrogen shall comply with KCAPCD Rule 613.

RULE 210.1 (NSR) ANALYSIS VALIDATION:

Maximum daily emission rate of each air contaminant from this emissions unit shall not exceed the following daily emissions limitations:

<u>Hydrocarbons:</u>	153.96 lbm/day	(Rule 210.1)	(Collection System Fugitives)
	82.25 lbm/day	(Rule 210.1)	(Polish Rod Stuffing Box Fugitives)

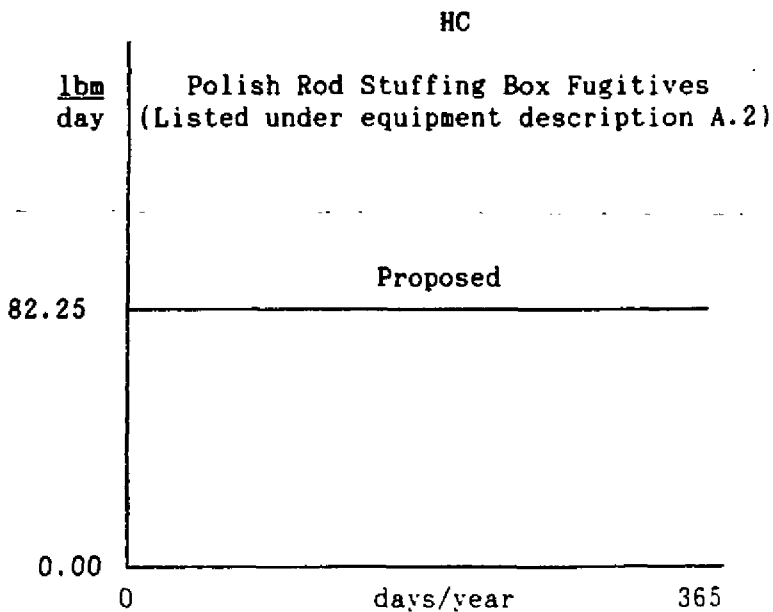
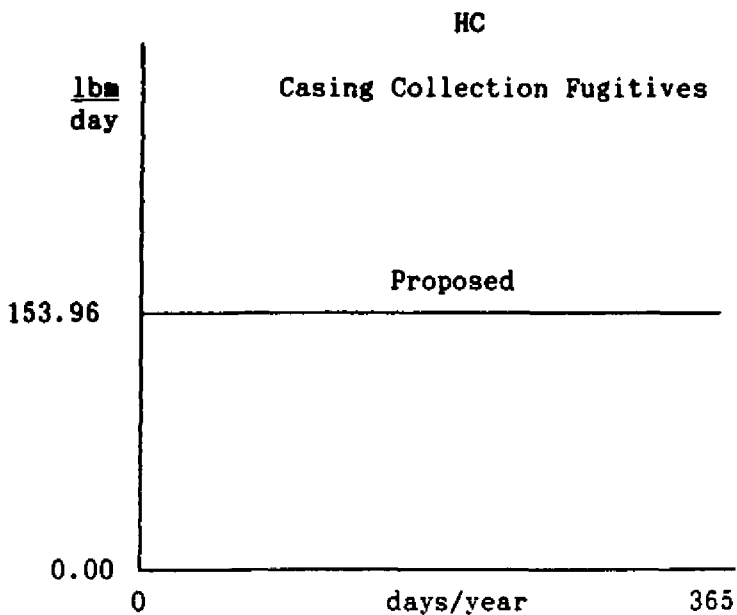
Compliance with these daily emissions limitations shall be verified by source operator (with TEOR flow rate data, operational data, etc.) on daily basis and written documentation made readily available to District for period of three years.

RULE 210.1 (NSR) DAILY EMISSION LIMITATIONS: (See attached.)

7/28

DAILY EMISSIONS LIMITATIONS

lbm/day



2/78

air. Since the exhaust gas/combustion air mixture burns at a lower combustion temperature, less oxides of nitrogen (NO_x) formation occurs.

2. FGR - EQUIPMENT DESCRIPTION:

The FGR exhaust gas recirculation is accomplished by ducting a portion of the exhaust gases produced by the combustion process into the steam generator blower inlet. Therefore, each generator will be modified by the addition of a 12" duct from the convection hood to the blower inlet (a FGR equipment diagram is included in Appendix - III).

The following equipment is used by the FGR system:

- a. 12" FGR line.
- b. Convection section hood, and
- c. 24" blower inlet air ducting

IV. - PROJECT PROCESS INFORMATION:

A. EQUIPMENT FIRING RATE AND OPERATING CAPACITY :

- 1. The steam generator's firing rate will be limited to 95% of its maximum rated capacity (59.3750 MMBTU/HR = 62.5000 X 0.95)
- 2. The steam generator's operating schedule will be 24 HR/D, 7 days per week (100 % run time).

B. EQUIPMENT FUEL QUALITY:

The steam generators will burn fuel gas with heating value of approximately 1000 BTU/SDCF. The maximum sulfur content of the fuel gas is 0.75 grains of total sulfur per 100 SDCF.

C. PROCESS EMISSION FACTORS:

The process emission factors for a 62.5 MMBTU/HR gas fired, flue gas recirculated (FGR) steam generator are listed below. The emission factors are calculated using the fuel quality specifications discussed above.

TABLE-2

PROCESS EMISSION FACTORS

GENERATOR FUEL	PROCESS EMISSION FACTORS (LB/MMBTU)					
	PM-10	SO2	SO4	ROG	CO	NOX
GAS	0.0050	0.0021	0.00006	0.0028	0.0160	0.0430

V. - PROJECT EMISSION CALCULATIONS :

Calculation of the process emission factors (summarized above) and calculation of the steam generator's emissions are contained in the following sections:

- SECTION A:** Details the calculation of the process emission factors for the steam generators.
- SECTION B:** Details the calculation of the daily emission limits (DEL) for the steam generators.
- SECTION C:** Details the calculation of the emission sampling limits (ESL) for the steam generators.

A: CALCULATION OF THE PROCESS EMISSION FACTORS:

The gas fired process emission factors for the steam generators are calculated below:

1. CALCULATION OF "GAS" FIRED EMISSION FACTORS:

PM-10: The process emission factor for PM-10, is calculated according to EPA publication AP-42 for gas fired industrial boilers (assuming 1000 BTU/SDCF).

SOx: The emission factors for SO2 and SO4 were calculated assuming:

- i. A fuel gas BTU content of 1000 BTU/SDCF.
- ii. A fuel gas sulfur content of 0.75 grains of total sulfur per 100 SDCF.
- iii. Conversion of 98% of the fuel sulfur to SO2 (2% to SO4).

The calculated fuel gas factors for SO2 and SO4 are:

TABLE - 3

FUEL GAS DEL FACTORS FOR SO2 AND SO4

FACTOR		A	B	C	D	E	F
SLC FACTOR LB/MMBTU		FUEL Gr S per 100 SDCF	LB/Gr	100s per 1000	MCF per MMBTU	% S to SOx	MW SOx to MW S
SO2	0.00210	0.75	1/7000	10/1	1/1	0.98	64/32
SO4	0.00006	0.75	1/7000	10/1	1/1	0.02	96/32
FACTOR		= (A X B X C X D X E X F)					

ROG, CO & NOX: The emission factor for ROG, CO and NOX, are based on process emissions rates actually measured during source tests conducted on FGR equipped steam generators.

B: STEAM GENERATOR DAILY EMISSION LIMIT (DEL) CALCULATIONS:

The daily emission limits (DELS) for the steam generators are calculated below.

The DELs are calculated using the process emission factors (discussed above) and a "use factor" derived from the steam generators maximum firing rate and operating schedule.

The "use factor" (0.95 %) assumes that the steam generators are limited to 95 % of their maximum firing rate and that they are operated 100 % of the time. The use factor is included in the steam generators firing (ie $59.3750 = 62.5000 \times 0.95$).

TABLE - 4

STEAM GENERATOR DAILY EMISSION LIMIT (DEL) CALCULATIONS

(A)	(B)	(C)	(D)	(E)	(F)
CRITERIA POLLUTANT	EMISSION FACTOR LB/MMBTU	FIRING 95% CAP. MMBTU/HR	EMISSION RATE LB/HR	HOURS PER DAY	DAILY EMISSION LIMIT (DEL)
PM-10	0.0050	59.3750	0.2969	24	7.1250
SO2	0.0021	59.3750	0.1247	24	2.9925
SO4	6.0E-5	59.3750	0.0036	24	0.0855
CO	0.0160	59.3750	0.9500	24	22.8000
ROG	0.0028	59.3750	0.1663	24	3.9900
NOX	0.0434	59.3750	2.5769	24	61.8450
A X B X C X D X E =					(DEL)

C: STEAM GENERATOR EMISSION SAMPLING LIMITATION (ESL) CALCULATIONS:

The emission sampling limits (ESL) for the steam generators are calculated below. The ESLs are calculated using the generator's maximum firing rate (62.5000 MMBTU/HR) and a operating schedule of 24 HR/D.

TABLE - 5

158

STEAM GENERATOR EMISSION SAMPLING LIMITS (ESL) CALCULATIONS

(A)	(B)	(C)	(D)
CRITERIA POLLUTANT	EMISSION FACTOR LB/MMBTU	PIRING 100% CAP. MMBTU/HR	EMISSION SAMPLING LIMIT LB/HR
PM-10	0.0050	62.5000	0.3125
SO ₂	0.0021	62.5000	0.1313
SO ₄	6.0E-5	62.5000	0.0038
CO	0.0160	62.5000	1.0000
ROG	0.0028	62.5000	0.1750
NO _x	0.0434	62.5000	2.7125
A X B X C = D			

VI. WESTERN HEAVY OIL SOURCE NSR EMISSION PROFILES:

The Western Heavy Oil Source cumulative net change emission profiles and the projects proposed emission increases are listed below.

TABLE-6

CUMULATIVE NET CHANGE PROFILES

PROFILE see Note(1-6)	CUMULATIVE NET CHANGE PROFILES (LB/D)					
	PM-10	SO ₂	SO ₄	ROG	CO	NO _x
3/29/90	0.00	-749.62	164.71	47.50	>550	0.00
PN 900605	-51.73	-51.89	-12.43	----	----	-336.85
PN 900615	----	----	----	----	----	-85.43
PN 900716	-54.92	-60.66	-15.59	----	----	-241.26
1980 ERCs	----	----	----	-2726.48	----	----
1Y-CC-1	----	----	----	153.75	----	----
36W-#1,#2	----	----	----	135.30	----	----
ADJUSTED	-106.65	-1672.45	136.69	-2389.93	>550	-663.54
PROJECT	71.25	29.93	0.86	39.90	228	618.45
POST-PROJ	0.00	-1529.97	137.55	-2350.03	>778	0.00
BANK CERT	-35.40	-112.55	N/A	N/A	N/A	45.09

The emission limits were calculated using a control efficiency of 99% and a industry average ROG emission factor of 313 LB/D for a typical uncontrolled steam drive well.

However, information from source tests performed on Chevron's Cymric Area CCS (summarized in the TABLE 4-1 of the enclosed "REESTABLISHMENT" document) shows that the actual uncontrolled emission factors for Chevron's steam drive wells in the Cymric Area is 142.21 LB/D per well.

Therefore, the systems' permitted emission limits of 208.3 LB/D, which were calculated using the industry average factor of 313 LB/D, are not representative of the systems' actual emissions. The systems' actual (correct) ROG emissions are approximately 93.85 LB/D:

$$93.85 \text{ LB/D} = [(66 \text{ wells}) \times (142.21 \text{ LB/D-Well}) \times (1-.99)]$$

The difference between permitted emission limits for the 36W systems and the actual emissions from the 36W systems will be used to increase the number of steam drive wells that can be connected to the system.

Each system is permitted for 66 steam drive wells. After modification of the permits the systems will be permitted for the connection of 146 wells. The system's permitted emissions (with 66 wells) and the system's emissions after the well count is modified (to 146 wells) are listed below.

TABLE - III.1

MODIFY 36W CCS WELL COUNT: 146 STEAM DRIVE WELLS

ITEM DESCRIPTION	36W-CC-1 (4008317)	36W-CC-2 (4008352)
PERMITTED EMISSIONS (LB/D)	208.30	208.30
NO. OF EXISTING WELLS (66)	66.00	66.00
ACTUAL EMISSIONS (LB/D)	93.85	93.85
AVAILABLE BALANCE (LB/D)	114.45	114.45
DIVIDED BY LB/D-WELL (142.21 x (1-.99))	1.42	1.42
EQUALS NO. OF NEW WELLS (114.45/1.42)	80.48	80.48
TOTAL NO. OF WELLS (66 + 80)	146	146
TOTAL EMISSIONS (146 X 1.42 = LB/D)	207.6	207.6
PROPOSED EMISSION LIMITS (LB/D)	208.30	208.30
PERMITTED EMISSION LIMITS (LB/D)	208.30	208.30
NET EMISSIONS CHANGE (LB/D)	0.00	0.00

March 18, 1991

page III.3

3. MODIFY GAS COLLECTION NETWORK 36W-CC-2 (APCD No. 4008352):

The CCS equipment description will be modified to allow connection of the gas discharge line from the 1Y-CC-1 diverter valve to the 36W-CC-2 gas collection network.

As discussed in PART II, Section (I), the gas from the 1Y-CC-1 system will normally be incinerated in the 36W steam generators.

However, during "upset conditions" when the 36W steam generators are "down" the gas from the 1Y-CC-1 system will be temporarily diverted to the 36W-CC-2 CCS (APCD No. 4008352) gathering system.

The gas which is diverted to the 36W-CC-2 gathering system would continue to flow to the system until the steam generators are brought "back on line" or until the pressure of the both 1Y-CC-1 gathering system and the 36W-CC-2 gathering system were equal.

When the steam generators are brought "on line" the diverter valve would close and the 1Y-CC-1 gas would be rerouted to the 36W steam generators for incineration.

The 1Y gas which was diverted to the 36W gathering system would be gradually processed by the 36W CCS and incinerated in KCAPCD permitted equipment (ie the Cogen duct burners or the 36W steam generators).

NOTE: There are no emission increases proposed or requested for the 36W-CC-2 CCS (APCD no. 4008352).

B. MODIFICATIONS WITH EMISSION INCREASES:

In order to simply the future permitting procedure required for the connection of gas processing equipment to the 36W collection systems, the CCS hydrocarbon emission limits will be increased.

The increase in the CCS emission limits will be used to provide a "growth allowance" for the connection of future equipment (vessels, tanks...etc) to the CCS.

As equipment is added to the gathering systems the equipment's hydrocarbon emissions would be absorbed by the CCS's "growth allowance".

Therefore, hydrocarbon emissions from future equipment would require offsetting only if the equipment's emissions exceeded the CCS "growth allowance".

The proposed increase in the CCS emission limits will be "netted-out" using the reestablished ERCs discussed in PART I.

NOTE: The future maximum mass flow rates (from the CCS) were used to calculate the proposed emission limits for the steam generators which will be used to incinerate the CCS gas.

March 18, 1991

The process information used to derive the "growth allowance" required for future hydrocarbon emitting equipment to be connected to the CCSs follows.

1. CASING COLLECTION SYSTEM PROCESS INFORMATION:

Process information used to calculate the emissions of reactive organic gasses (ROG) resulting from the future gas volumes to be processed by the CCS follows:

a. - FUTURE GAS TO BE PROCESSED BY THE 36W CCS

The gas volume expected to result from the addition of future equipment to each of the 36W CCSs is 1.1 MM SDCF per day (or 2.2 MM SDCFD total).

The amount of ROG contained in 1.1 MM SDCF of the gas is 6765.21 LB/D (assuming a ROG content of 4% and a ROG M.W. of 58.35).

The corresponding fugitive emissions for each of the 36W CCS is 67.65 LB/D (per KCAPCD practice of assuming 1% of the total ROG are fugitive emissions).

The incremental (future) mass of reactive organic gasses (ROG, C2+) to be processed by each system and the systems estimated future ROG fugitive emissions are listed below.

(NOTE: The emission sampling limits discussed below are based on these future maximum flow rates).

TABLE - III.2

FUTURE 36W CCS GAS AND MASS FLOW RATES

CASING COLLECTION (APCD NO.)	ACTUAL CURRENT GAS RATE MCFD (dry)	FUTURE INCREMENTAL GAS RATE MCFD (dry)	FUTURE INCREMENTAL ROG (LB/D)	
			MASS	FUGITIVES
(4008317)	<400	1100	6765.21	67.65
(4008352)	<400	1100	6765.21	67.65
TOTAL	<800	2200	13530.43	135.30

NOTE: 1. The "INCREMENTAL ROG MASS" is calculated from the incremental (future) gas volume assuming an average M.W. of 58.35 (i.e C4) and 4.0% ROG.

ROG fugitive emissions correspond to 1 % of the mass of ROGs processed (per KCAPCD practice).

March 18, 1991

b.- 36W CCS GAS COMPOSITION :

The gas composition listed in TABLE II.1 (Part II) is typical of the future gas to be processed in the 36W casing collection systems.

1. INCREASE THE 36W CCS HYDROCARBON EMISSION LIMITS:

The difference between the permitted "actual" hydrocarbon emissions and "future" hydrocarbon emission limits will be used as a "growth allowance".

The current CCS emission limits, CCS emission increases proposed for this project and the CCS emission increases proposed for the CCS's future growth allowance are listed below:

TABLE - III.3

PROPOSED HYDROCARBON EMISSION LIMITS

CCS SYSTEM APCD NO.	EQUIPMENT EMISSIONS (LB/D)			NET CHANGE LB/D	CCS LIMIT LB/D
	PERMITTED	PROPOSED	FUTURE		
CCS#1(4008317)	208.30	0.00	67.65	67.65	275.95
CCS#2(4008352)	208.30	0.00	67.65	67.65	275.95
TOTAL (LB/D)	416.60	0.00	135.30	135.30	551.90

PERMITTED = The CCS's existing permitted emission limits.
 PROPOSED = The CCS's proposed emission for new equipment.
 FUTURE = The CCS's future "growth allowance" for new equipment.

March 18, 1991

page III.6

III WESTERN HEAVY OIL SOURCE NSR EMISSION PROFILES:

The Western Heavy Oil Source cumulative net change emission profiles along with proposed emission increases are for this project are listed in TABLE III.4

TABLE-III.4
CUMULATIVE NET CHANGE PROFILES

PROFILE see Note (1-6)	CUMULATIVE NET CHANGE PROFILES (LB/D)					
	PM-10	SO ₂	SO _x	ROG	CO	NO _x
CURRENT	0.00	-749.62	164.71	47.50	>550	0.00
FGR ERCs	-106.60	-112.60	-28.00	0.00	0	-913.23
ADJUSTED	-106.60	-862.20	136.70	47.50	>550	-913.30
1980 ERCs	----	----	----	-2726.48	----	----
1Y-CC-1	----	----	----	153.75	----	----
36W-#1,#2	----	----	----	135.30	----	----
POST-PROJ	-106.60	-822.20	137.60	-2389.93	>550	-913.30

NOTE: PROFILE DESCRIPTIONS:

1. **"CURRENT"**: The profile that corresponds to the District's March 29, 1990 emission profile for Chevron's Western Heavy Oil Source.
2. **"FGR ERCs"**: Are adjustments to the current profile which are currently pending. The adjustments summarize emission reduction credits available from the installation of flue gas recirculation (FGR) systems on existing steam generators (For additional information on the FGR ERCs refer to KCAPCD PROJECT No. 900605, 900615 and 900717).
3. **"ADJUSTED"**: Represents the algebraic sum of the "CURRENT" profile and the ERCs authorized by the unimplemented ATCs for steam generator FGR retrofits).
4. **"1980 ERCs"**: List the reestablished hydrocarbon ERCs. A portion of the ERCs (289.05 LB/D will be used to "net-out" the proposed increase in hydrocarbon emissions for the 1Y-CC-1 system and the modifications to the 36W CCS systems).
6. **"1Y-CC-1"**: Lists the emissions proposed for the new 1Y-CC-1 system discussed in PART II (153.75 LB/D).
7. **"36W #1,#2"**: List the projects proposed hydrocarbon emission increase (67.65 LB/D for each CCS = 135.30 LB/D total)
8. **"POST PROJECT"**: Lists the Western Heavy Oil Source profile after

March 18, 1991

- a. Gauge vessel (30' long X 6' diameter) located a 1Y GS#5 (SEC. 36, T29S/R21E).
 - b. 250 cyclically stimulated TEOR wells (list attached to the ATC application).
2. Gas liquid separator (10' tall X 4' diameter) located at section 36 T29S/R21E.
 3. Two condensate pumps (minimum of 2 H.P each)
 4. Piping from the gas discharge line of the gas/liquid separator (item (2) above) to the following steam generator burners (4008031, 4008085-4008090).
 5. Connection of the gas discharge line from the 1Y-CC-1 gas diverter valve to the 36W-CC-2 collection system (APCD No. 4008352).

III. 1Y-CC-1 PROCESS INFORMATION:

The process information discussed below was used to calculate the 1Y-CC-1 system's proposed emission limits for reactive organic gasses (ROG). The emission limits were calculated assuming a ROG content of 4% by volume and a ROG molecular weight of 58.35 (ie worst case basis).

A.- ACTUAL AMOUNT OF GAS TO BE PROCESSED:

The expected gas volume to be collected by the 1Y-CC-1 gathering system is 1.5 MM SDCF per day. (The gas is primarily from cyclicaly stimulated TEOR wells (138 existing plus 112 future wells = 250 wells total).

The amount of ROG contained in 1.5 MM SDCF of the TEOR gas is 9225.3 LB/D (assuming a TEOR gas ROG content of 4% and a ROG M.W. of 58.35).

The corresponding fugitive emissions from the gas to be processed by the 1Y-CC-1 system is 92.25 LB/D (per KCAPCD practice of assuming 1% of the total ROG are fugitive emissions).

B.- FUTURE (MAXIMUM) AMOUNT OF GAS TO BE PROCESSED:

The anticipated (future maximum) gas volume to be collected by the 1Y-CC-1 system is 2.5 MM SDCF per day.

The amount of ROG contained in 2.5 MM SDCF of the gas is 15375.49 LB/D.

The corresponding maximum fugitive emissions from the gas to be processed by the 1Y-CC-1 system is 153.75 LB/D (per KCAPCD practice of assuming 1% of the total ROG are fugitive emissions).

C.- GAS COMPOSITION (analyses attached):

The gas composition listed in TABLE II.1 is typical of the gas to be processed in the 1Y-CC-1 collection system (analysis attached in Appendix II.3).

March 18, 1991

TABLE - II.1

TYPICAL GAS COMPOSITION

GAS COMPONENT	VOLUME % (dry)
Inert (CO ₂ , N ₂ , ... etc)	30 - 50
Methane (C ₁)	30 - 50
Hydrogen sulfide (H ₂ S)	0 - 2
ROG (C ₂ +))	0 - 4

Reactive Organic Gasses (ROG = C₂+)
 ROG molecular weight = 58.35
 BTU/SDCF = (approximately) 500

IV. 1Y-CC-1 GAS COLLECTION SYSTEM HYDROCARBON EMISSION LIMITS:

In order to simplify the future permitting procedure required for the connection of gas processing equipment to the gas collection system, the new system's hydrocarbon emission limits will be maximized to include the emissions from future equipment (wells, vessels, tanks...etc).

The difference between the actual hydrocarbon emissions and "future" hydrocarbon emission limits will be used as a system "growth allowance".

As equipment is added to the gathering system the equipment's hydrocarbon emissions would be absorbed by the system's "growth allowance".

Therefore, additional hydrocarbon emissions from future equipment would only require offsetting if the additional emissions would result in an exceedance of the system's permitted emission limits for hydrocarbons.

The actual emission increases proposed for this project and the emission increases proposed for the system's future growth allowance are listed below (refer to the "PROCESS INFORMATION" section for additional details).

TABLE - II.2

PROPOSED HYDROCARBON EMISSION LIMITS (250 CYCLIC WELLS)

CCS SYSTEM APCD NO. OR CHEV. ID	EMISSIONS (LB/D)		TOTAL NET CHANGE LB/D	1Y-CC-1 EMISSION LIMIT LB/D
	PROPOSED	FUTURE		
1Y-CC-1	92.25	61.50	153.75	153.75

PROPOSED = The system's actual emission for this project.
 FUTURE = The system's future "growth allowance" for new equipment.

NOTE: The calculated emissions from 250 wells @ 13.4 LB/D per well (KCAPCD factor) is only 33.50 LB/D : (33.50 = 13.4 * 250 *.01)

March 18, 1991

V. WESTERN HEAVY OIL SOURCE NSR EMISSION PROFILES:

The Western Heavy Oil Source cumulative net change emission profiles are listed below.

TABLE-II.3

CUMULATIVE NET CHANGE PROFILES

PROFILE see Note (1-6)	CUMULATIVE NET CHANGE PROFILES (LB/D)					
	PM-10	SO ₂	SO _x	ROG	CO	NO _x
CURRENT	0.00	-749.60	164.70	47.50	>550	0.00
FGR ERCs	-106.60	-112.60	-28.00	0.00	0	-913.30
ADJUSTED	-106.60	-862.20	136.70	47.50	>550	-913.30
1980 ERCs	----	----	----	-2726.48	----	----
1Y-CC-1	----	----	----	153.75	----	----
POST-PROJ	-106.60	-822.20	137.60	-2525.23	>550	-913.30

NOTE: PROFILE DESCRIPTIONS:

1. **"CURRENT"**: The profile that corresponds to the District's March 29, 1990 emission profile for Chevron's Western Heavy Oil Source.
2. **"FGR ERCs"**: Are adjustments to the current profile which are currently pending. The adjustments summarize Emission reduction credits available from the installation of flue gas recirculation (FGR) systems on existing steam generators (For additional information on the FGR ERCs refer to KCAPCD PROJECT No. 900605, 900615 and 9006716).
3. **"ADJUSTED"**: Represents the algebraic sum of the "CURRENT" profile and the ERCs authorized by the unimplemented ATCs for steam generator FGR retrofits.
4. **"1980 ERCs"**: List the reestablished ERCs that will be provided in order to "net-out" the projects proposed hydrocarbon emission limits (approximately 153.75 LB/D). (Refer to the discussion contained in the project description PART I for additional information).
5. **"1Y-CC-1"**: List the projects proposed hydrocarbon emission increase.
6. **"POST PROJECT"**: Lists the Western Heavy Oil Source profile after the ATC permits authorizing the projects proposed emissions are issued (it includes the FGR ERC adjustments and the reestablished ERCs discussed in PART I of the project description).

March 18, 1991

page II.4

VI. EMISSIONS CALCULATIONS (continued):

167

B. PROPOSED EMISSIONS (continued):Summary of proposed emissions for the project:

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
40080310	56.83	32.56	128.10	192.00	15.36	31.95
4008085P	56.83	32.56	128.10	192.00	15.36	31.95
4008086P	56.83	32.56	128.10	192.00	15.36	31.95
4008087P	56.83	32.56	128.10	192.00	15.36	31.95
4008088Q	56.83	32.56	128.10	192.00	15.36	31.95
4008089T	56.83	32.56	128.10	192.00	15.36	31.95
4008090T	56.83	32.56	128.10	192.00	15.36	31.95
4008317(J)	0.00	0.00	0.00	0.00	301.38	0.00
4008352(G)	0.00	0.00	0.00	0.00	301.38	0.00
4008835	new proposed system, therefore current emiss,				236.21	0.00
Proposed	397.81	227.92	896.70	1344.00	946.49	223.65

C. NET PROJECT CHANGE: Net change = Proposed - Current.

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Current	397.81	227.92	896.70	1344.00	522.00	223.65
Proposed	397.81	227.92	896.70	1344.00	946.49	223.65
Net Change	0.00	0.00	0.00	0.00	+424.49	0.00

D. NET CHANGE ON EACH EMISSIONS UNIT:

	PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
40080310	0.00	0.00	0.00	0.00	0.00	0.00
4008085P	0.00	0.00	0.00	0.00	0.00	0.00
4008086P	0.00	0.00	0.00	0.00	0.00	0.00
4008087P	0.00	0.00	0.00	0.00	0.00	0.00
4008088Q	0.00	0.00	0.00	0.00	0.00	0.00
4008089T	0.00	0.00	0.00	0.00	0.00	0.00
4008090T	0.00	0.00	0.00	0.00	0.00	0.00
4008317(J)	0.00	0.00	0.00	0.00	94.14	0.00
4008352(G)	0.00	0.00	0.00	0.00	94.14	0.00
4008835	0.00	0.00	0.00	0.00	236.21	0.00
Net Change:	0.00	0.00	0.00	0.00	424.49	0.00

168

VII. EMISSIONS CHANGE (All Emissions lb/day)STATIONARY SOURCE NET EMISSIONS CHANGE:Emissions change for each emissions unit are shown on page(s) 30-39.1. CURRENT EMISSIONS: This project only.

Authorized emission rates represented by Daily Emission Limitations (DEL) or actual historical emissions (actual historical emissions must be used where no DEL exists or where reductions are used for offsets, banking or interpollutant tradeoffs). Current emissions are summarized on page 23.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
397.81	227.92	896.70	1344.00	522.00	223.65

2. PRE-PROJECT CUMULATIVE NET EMISSION CHANGE:

Sum of Pre-Project Authorized Emission Changes represented by Authorities to Construct issued after 9/12/79. These values are tabulated on page(s) 42-51.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
-21.36	129.20	-823.73	-63.93	-2612.42	3254.30

3. PROPOSED EMISSIONS: for this project only.

Sum of authorized emission rates after implementation of this project. Proposed emissions are summarized on page 29. Daily Emissions Limitations (DELs) to be included in ATC are shown on page 29.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
397.81	227.92	896.70	1344.00	946.49	223.65

4. CONTRIBUTION TO SMALL SOURCE SITING ALLOWANCE (SSSA):

SSSA = 10% of emission reductions from each emissions unit (except reductions to be banked) SSSA adjustments are summarized on page(s) _____.

PM ₁₀	SO ₄	SO ₂	NO ₂	HC	CO
Not applicable. No SSSA contributions.					

169

VII. EMISSIONS CHANGE (All Emissions lbm/day)5. EMISSIONS TO BE BANKED:

Emissions to be banked are summarized on page(s) _____.

PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
Not applicable - no emissions to be banked.					

6. PROJECT'S "CREDITABLE" NET EMISSION CHANGE:

Proposed emissions - Current emissions + SSSA + Emissions to be Banked

PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
0.00	0.00	0.00	0.00	424.49	0.00

7. POST-PROJECT CUMULATIVE NET EMISSION CHANGE:

Pre-Project Cumulative Net Emission Change + Project's Creditable Net Emissions Change.

PM ₁₀	SO ₁	SO ₂	NO ₂	HC	CO
-21.36	129.20	-823.73	-63.93	-2187.93	3254.30

8. CONCLUSIONS:

- X The stationary source net emissions change (increase) does not equal or exceed 150 lbm/day SO₁, SO₂, NO₂ or HC, or 80 lbm/day PM₁₀ or 550 lbm/day CO. Therefore LAER and Mitigation are not required.
- N/A The stationary source net emissions change (increase) is such that Subsection V.B. of Rule 210.1, LAER and Mitigation applies for _____ and full mitigation for these increases has been provided as shown on page(s) _____ or modeling has been submitted showing no new violations for increases of CO greater than 550 lbm/day as shown on page(s)_____.
- N/A The stationary source net emissions change (increase) is such that Subsection V.B. of Rule 210.1, LAER and Mitigation applies for _____ and sufficient mitigation has not been provided therefore, the following ATCs should be denied:



San Joaquin Valley
Unified Air Pollution Control District

FAX Transmittal Sheet

Southern Region

2700 "M" Street, Suite 275
Bakersfield, CA 93301

Voice: (805) 861-3682
FAX: (805) 861-2060

Date: 7/20/93

From: Robert Rinaldi

To: Jennifer Fox EPA
Name Company

Total Pages (including cover page): 5 Fax No.: (415) 744-1076

Comments: _____

ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	30622
2nd Quarter	30962
3rd Quarter	31302
4th Quarter	31302

ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	22486
2nd Quarter	22735
3rd Quarter	22985
4th Quarter	22985

ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	69944
2nd Quarter	70722
3rd Quarter	71499
4th Quarter	71499

ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	974
2nd Quarter	985
3rd Quarter	995
4th Quarter	995

ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	9604
2nd Quarter	9711
3rd Quarter	9817
4th Quarter	9817

ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3974
2nd Quarter	4019
3rd Quarter	4063
4th Quarter	4063

ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21807
2nd Quarter	22049
3rd Quarter	22292
4th Quarter	22292

ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

As required by Rule 2301 - Emission Reduction Credit Banking subsection 4.1.2.3. please add these emissions to the 1987 inventory, or account for these emissions in revisions the 1991 AQAP and annual tracking of emissions reductions.

CHEVRON U.S.A.

REESTABLISH VOC OFFSETS

for

CENTRAL and WESTERN SOURCES

Submitted to:

**Kern County Air Pollution Control District
2700 M Street
Suite 275
Bakersfield, California 93301**

Prepared by:

**Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, California 93302**

With Technical Assistance by:

**RAP Services
3719 B-2 Wilson Road
Suite 464
Bakersfield, California 93309**

October 1990

CHEVRON U.S.A.

REESTABLISH VOC OFFSETS

for

CENTRAL and WESTERN SOURCES

Submitted to:

**Kern County Air Pollution Control District
2700 M Street
Suite 275
Bakersfield, California 93301**

Prepared by:

**Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, California 93302**

With Technical Assistance by:

**RAP Services
3719 B-2 Wilson Road
Suite 464
Bakersfield, California 93309**

October 1990

TABLE OF CONTENTS

SECTION 1		
INTRODUCTION		1
SECTION 2		
PROJECT DESCRIPTION		2
Actual Emission Rate Demonstration Procedure		3
Reestablishment Test Procedure		4
SECTION 3		
CENTRAL SOURCES		5
TABLE 3-1		7
SECTION 4		
WESTERN SOURCES		10
TABLE 4-1		12
TABLE 4-2		14
APPENDIX I		
CENTRAL SOURCE		I
APPENDIX II		
WESTERN SOURCE		II

SECTION 1
INTRODUCTION

On June 22, 1987 Kern County Air Pollution Control District adopted a revised Rule 210.1. One effect of this rule change was that Facilities had all emission profile credits set to zero. Chevron U.S.A. Inc. had 6434.53 lb/day of VOC credits for the Central source and 3570.62 lb/day VOC credits for the Western source set to zero. The purpose of this request is to reestablish a portion of those offsets.

In order to reestablish offsets set to zero in 1987 the offsets must be real, quantifiable and enforceable. The offsets selected for reestablishment must also pass a test proving they were at no time used as offsets on a subsequent project, enabling that project to circumvent BACT or LAER emission controls.

Section 2 describes the approach taken for this project. Section 3 provides the technical information necessary to reestablish VOC credits in the Central source and Section 4 provides the technical information necessary to reestablish VOC credits in the Western source. Appendix I contains documentation of permit applications in effect for the Central source and Appendix II contains documentation of permit applications in effect for the Western source.

SECTION 2 PROJECT DESCRIPTION

In January 1980, Chevron submitted and received approval for a plan to comply with the District Rule 411.1. At the time, Rule 411.1 required 93 percent VOC control of steam drive well casing gases by 1982. Chevron proposed to incinerate those gases and claimed a 99 percent reduction efficiency. The 6 percent above the required 93 percent removal efficiency was credited by the APCD to Chevron's cumulative VOC emission profile as a VOC offset.

This project will establish the actual level of hydrocarbons that were controlled and demonstrate that the offset credits to be reestablished were never used to mitigate emission control requirements on any subsequent projects. The actual level controlled will be compared with the level granted by the APCD in 1980 and the lower of the two will be used as the reestablished offset. The test to demonstrate that reestablished offsets were never required will be conducted by setting the level of the credits granted in the 1980 profile, from the project to be reestablished, to zero. The cumulative VOC emission profiles are then recalculated for each project through June 22, 1987. If the new cumulative emission profile demonstrates that no project required the credits, then they are available for reestablishment, up to but not exceeding the amount originally credited in 1980.

Actual Emission Rate Demonstration Procedure

An uncontrolled emission factor of 250 lb VOC/day/well was used to determine the quantity of offsets granted by the APCD in the original 1980 project. This factor was applied equally, to all wells in the project. Actual source tests show that some sources had a greater lb/day/well than others. In order to accurately and fairly compare reestablished levels with levels originally granted in 1980, an emission factor must be used for the reestablishment procedure. A weighted emission factor, based on actual source tests, has been calculated for each source. This weighted emission factor represents the quantifiable VOC levels available for offsets under reestablishment rules.

The amount of quantifiable offsets have been compared with the quantity credited by the APCD in 1980. In all cases the smaller of these values was used as the reestablished value.

Sections 3 and 4 present data used to establish weighted emission factors for the Central and Western sources, respectively. These emission factors are based on actual source tests. The total emission credits calculated using the weighted emission factor was found to be equivalent to the emission credits from the individual measurements. The only difference between these methods is the distribution of emissions between casing collection systems. Since the original emission credits were calculated using an emission factor it is accurate and proper to compare them to reestablished emission credits calculated from a weighted emission factor based on actual source tests. This demonstration prevents the necessity to recalculate each original profile individually, then reestablish that value.

The results from the last series of source tests conducted on the casing collection systems prior to the installation of the enclosed incineration systems have been used to demonstrate the uncontrolled levels of hydrocarbon emissions. These tests were conducted in 1979 and 1980 to demonstrate compliance with the pre 1980 Rule 411.1 VOC control requirement. The results of these tests and the number of wells being served by each system were used to calculate a weighted uncontrolled emission factor in lb/well/day VOC.

Reestablishment Test Procedure

All of the emission profiles from September 12, 1979 to June 22, 1987 are included in the test. The running cumulative totals of the VOC emission levels after each permit change are compared with the running cumulative totals of the same VOC emission levels excluding the offset credits from the sources that are being reestablished. The offsets are considered allowable if at no time after they have been reestablished (set to zero) does the net emission change require a project to implement a greater level of control than if the offsets had been included in the profile.

Since the quantity of offsets to be reestablished is less than or equal to the amount credited by the APCD in 1980, then the cumulative emission profile reestablishment test procedure of setting the original offset value to zero is the most conservative approach.

SECTION 3 CENTRAL SOURCES

A total of 28 of Chevron U.S.A.'s casing collection systems in service in the Central source area, as defined by Rule 210.1, were granted offset credits by the APCD in 1980. Each source was modified to achieve 99 percent VOC control efficiency, 6 percent greater than the 93 percent required by 1982 under Rule 411.1. A total of 20 systems were source tested prior to these modifications to demonstrate compliance with the pre 1980 411.1 control efficiency requirements. The results of these source tests are being used to establish an actual baseline uncontrolled VOC emission rate.

Chevron is seeking to reestablish offsets from 18 of these sources. The most conservative calculation method yields 5,715.11 lb/day of VOC offsets that meet the APCD's reestablishment criteria.

An uncontrolled emission factor of 250 lb VOC/day/well was used to determine the quantity of offsets granted by the APCD in the original 1980 project. This factor was applied equally, to all wells in the project. Actual source tests show that some sources had a greater lb/day/well than others. In order to accurately and fairly compare reestablished levels with levels originally granted in 1980, an emission factor must be used for the reestablishment procedure. A weighted emission factor, based on actual source tests, has been calculated. This weighted emission factor represents the quantifiable VOC levels available for offsets under reestablishment rules.

The amount of quantifiable offsets have been compared with the quantity credited by the APCD in 1980. The smaller of these values was used as the reestablished value. Since the quantity of offsets to be reestablished is less than or equal to the amount credited by the APCD in 1980, then the cumulative emission profile reestablishment test procedure of setting the original offset value to zero is the most conservative approach. By setting the original credits granted by the APCD of 18 sources to zero, Chevron's cumulative emission profiles through June 22, 1987 never exceed -11.83 lb/day VOC. Therefore, after the reestablishment of 5,715.11 lb/day VOC, 11.83 lb/day of VOC credits were set to zero on June 22, 1987.

Table 3-1 presents specific information about the hydrocarbon offsets that we propose to reestablish. The table lists the identification of each source, results and dates of actual source tests, the offsets available as demonstrated by source test information, and the quantity of emission credits granted by Kern County APCD in 1980. Appendix I presents the cumulative emission profile from September 12, 1979 through June 22, 1987, the cumulative emission profile reestablishment test, source test information and casing collection system permit information.

Columns 1 and 2 of Table 3-1 identify each source by listing the APCD number (less the facility number of 4008-) and Chevron's internal identification number. Column 3 and 4 present the source test date and the uncontrolled emission rate measured in pounds per hour (lb/hr). Columns 4 and 5 present the number of wells in service during the tests and the uncontrolled lb/day/well emission factor based on those measurements.

TABLE 3-1

CHEVRON USA INC. CENTRAL SOURCE

HYDROCARBON CREDITS

APCD #	CHEVRON ID	TEST DATE	UNCONTROLLED		# OF WELLS	LB/DAY OFFSETS @ 99% EFFICIENCY			REESTABLISH CREDITS (SMALLER)
			TOTAL H/C LB/HR	LB/DAY PER WELL		WEIGHTED EMIS FACT	ACTUAL SRCE TEST	APCD CREDITS	
302 B	CC-2-9	7-31-80	393.81	378.06	25.00	336.18	567.09	374.40	336.18
303	CC-1-9	8-4-80	191.50	95.75	48.00	645.47	275.76	715.00	645.47
305 B	CC-9-3	7-29-80	33.65	62.12	13.00	174.81	48.46	195.00	174.81
306	CC-3-2	8-4-80	0.07	0.06	26.00	349.63	0.10	390.00	349.63
308 B	CT-4-3	7-29-80	155.42	109.71	34.00	457.20	223.80	510.00	457.20
310 B	CC-3-3	7-30-80	164.84	263.74	15.00	201.71	237.37	208.80	201.71
311	CT-5-3	11-22-79	798.10	684.09	28.00	376.52	1149.26	418.90	376.52
313	CC-1-5	8-5-80	361.70	149.67	58.00	779.94	520.85	877.50	779.94
315	CT-3-5	8-6-80	83.88	154.86	13.00	174.81	120.79	222.00	174.81
316	CT-2-5	8-5-80	451.70	387.17	28.00	376.52	650.45	463.50	376.52
322 B	CT-2-4	7-31-80	188.36	145.83	31.00	416.86	271.24	460.30	416.86
323	CT-1-4	11-20-79	98.00	58.80	40.00	537.89	141.12	598.00	537.89
325	CC-3-31	8-7-80	498.55	412.59	29.00	389.97	717.91	432.50	389.97
326	CC-2-31	8-11-80	160.42	770.02	5.00	67.24	231.00		•
327	CC-1-31	8-6-80	54.54	436.32	3.00	40.34	78.54	45.00	40.34
328	CC-2-32	8-8-80	79.88	383.42	5.00	67.24	115.03		*
329	CC-3-32	8-7-80	44.80	179.20	6.00	80.68	64.51	85.00	80.68
330	CC-1-32	8-8-80	110.77	664.62	4.00	53.79	159.51	40.40	40.40
331 A	CC-4-32	8-1-80	105.83	317.49	8.00	107.58	152.40	131.40	107.58
333 A	CT-1-3	7-30-80	95.69	135.09	17.00	228.60	137.79	255.00	228.60
			APCD CREDITS BASED ON	250.00					
			WEIGHTED AVERAGE	224.12					
TOTALS						5862.97	5862.97	6422.70	5715.11

• Not reestablishing emission credits from these sources.

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor for the Central sources was found to be 229.96 lb/day VOC; lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, times the excess control efficiency of 6 percent, times the number of wells in service, yields the quantity of emission credits available based on actual source test data.

The reestablished credits are quantifiable. The weighted emission factor accurately represents actual source test measurements. The credits available using the weighted emission factor are compared to those based on emission rates measured site by site in columns 7 and 8 of Table 3-1. Note that the sum of both of these columns are equal, demonstrating equivalence. This prevents the need to go back to the original project and reestablish the emissions of each site, one by one. The hydrocarbon credits that will be reestablished will be the lower of the credits available based on the weighted emission factor and the credits granted by the APCD in 1980.

The reestablished credits are real. Chevron is currently incinerating all excess vapors from the enclosed casing gas collection systems. Actually the efficiency is closer to 100 percent since the vapors are being incinerated in permitted steam generators, each with their own VOC emission limits. Since the steam generator emission limits do not reflect credit for the 1 percent control efficiency remaining, then greater than 99 percent control has actually been demonstrated. Source tests

conducted on these steam generators to date have shown that existing VOC emission limits are not being exceeded. Again, the conservative approach to the reestablishment calculation is to use the control efficiency of 99 percent, which yields 6 percent control over the requirement available for credits.

The reestablished offsets are enforceable. Field inspections have demonstrated that each of these casing gas collection systems are completely enclosed and the excess vapors are transported to an operating steam generator for combustion. The operating steam generators also undergo annual source tests to demonstrate compliance with permitted emissions limits.

SECTION 4 WESTERN SOURCES

A total of 15 of Chevron U.S.A.'s casing collection systems in service in the Western source area, as defined by Rule 210.1, were granted hydrocarbon emission offset credits in 1980. Each source was modified to achieve 99 percent VOC control efficiency, 6 percent greater than the 93 percent required by 1982 under Rule 411.1. These systems were (and still are) considered to be like systems. As such only 4 systems were required to be source tested prior to these modifications to demonstrate compliance with the pre 1980 411.1 control efficiency requirements. The results of these source tests are presented in Table 4-1 and are being used to establish an actual baseline uncontrolled VOC emission rate.

Chevron is seeking to reestablish offsets from a total of 9 of these like sources, including the 4 systems that were source tested. The most conservative calculation method yields 2,726.48 lb/day of VOC offsets that meet the APCD's reestablishment criteria.

An uncontrolled emission factor of 250 lb VOC/day/well was used to determine the quantity of offsets granted by the APCD in the original 1980 project. This factor was applied equally, to all wells in the project. In order to accurately and fairly compare reestablished levels with levels originally granted in 1980, an emission factor must be used for the reestablishment procedure. A weighted emission

Chevron U.S.A.
VOC Offsets

factor, based on actual source tests, has been calculated. This weighted emission factor represents the quantifiable VOC levels available for offsets under reestablishment rules.

The amount of quantifiable offsets have been compared with the quantity credited by the APCD in 1980. The smaller of these values was used as the reestablished value. Since the quantity of offsets to be reestablished is less than or equal to the amount credited by the APCD in 1980, then the cumulative emission profile reestablishment test procedure of setting the original offset value to zero is the most conservative approach. By setting the original credits granted by the APCD of 9 sources to zero, Chevron's cumulative emission profiles through June 22, 1987 never exceed -120.40 lb/day VOC. Therefore, after the reestablishment of 2,726.48 lb/day VOC, 120.40 lb/day of VOC credits were set to zero on June 22, 1987.

Table 4-1 presents source test specific information about the hydrocarbon offsets that we propose to reestablish. The table lists the identification of each source, results and dates of actual source tests, the offsets available as demonstrated by source test information, and the quantity of emission credits granted by Kern County APCD in 1980.

Columns 1 and 2 of Table 4-1 identify each source by listing the APCD number (less the facility number of 4008-) and Chevron's internal identification number. Column 3 and 4 present the source test date and the uncontrolled emission rate measured in pounds per hour (lb/hr). Columns 4 and 5 present the number of wells in service during the tests and the uncontrolled lb/day/well emission factor based on those measurements.

TABLE 4-1

CHEVRON USA INC. WESTERN SOURCE

WEIGHTED EMISSION FACTOR

APCD #	CHEVRON ID	TEST DATE	UNCONTROLLED		LB/DAY CREDITS @ 99% EFFICIENCY			
			TOTAL H/C LB/HR	LB/DAY PER WELL	# OF WELL	WEIGHTED EMIS FACT	ACTUAL SRC TEST	APCD CREDITS
317	ACC-36W-1	8-12-80	332.13	130.67	61.00	459.52	478.27	263.38
318	CT-162	8-12-80	126.55	82.09	37.00	278.73	182.23	414.60
319 B	CC-26C	8-14-80	283.08	128.19	53.00	399.26	407.64	457.01
350	CC-31X	8-13-80	262.66	153.75	41.00	308.86	378.23	397.78
APCD CREDITS BASED ON WEIGHTED AVERAGE				250.00	125.55			
					TOTALS	1446.36	1446.36	

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor based on the source tests of the 4 systems in the Western source was found to be 125.55 lb/day VOC; considerably lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, times the excess control efficiency of 6 percent, times the number of wells in service, yields the quantity of emission credits available based on actual source test data.

The reestablished credits are quantifiable since the weighted emission factor accurately represents actual source test measurements. The credits available using the weighted emission factor are compared to those based on emission rates measured site by site in columns 7 and 8 of Table 4-1. Note that the sum of both of these columns are equal, demonstrating equivalence. This prevents the need to go back to the original project and reestablish the emissions of each site, one by one.

Table 4-2 presents the hydrocarbon credits that will be reestablished for the 9 like units. The reestablished credit will be the lower of the credits available based on the weighted emission factor and the credits granted by the APCD in 1980.

TABLE 4-2

CHEVRON USA INC. WESTERN SOURCE

HYDROCARBON CREDITS

APCD # CHEVRON ID	# OF WELLS	LB/DAY CREDITS @ 99% EFFICIENCY		
		WEIGHTED EMIS FACT	APCD CREDITS	REESTABLISH CREDITS (SMALLER)
317 ACC-36W-1	61.00	459.52	263.38	263.38
318 CT-16Z	37.00	278.73	414.60	278.73
319 B CC-26C	53.00	399.26	457.01	399.26
350 CC-31X	41.00	308.86	397.78	308.86
343 B 15-CC-1	111.00	836.18	882.29	836.18
345 A CC-26C	38.00	286.26	69.84	69.84
346 A 18-CC-1	22.00	165.73	295.00	165.73
347 A 37-CC-1	40.00	301.33	103.18	103.18
349 A 43-CC-1	40.00	301.33	567.14	301.33
	TOTALS	3337.19	3450.22	2726.48

The reestablished credits are real. Chevron is currently incinerating all excess vapors from the enclosed casing gas collection systems. Actually the efficiency is closer to 100 percent since the vapors are being incinerated in permitted steam generators, each with their own VOC emission limits. Since the steam generator emission limits do not reflect credit for the 1 percent control efficiency remaining, then greater than 99 percent control has actually been demonstrated. Source tests conducted on these steam generators to date have shown that existing VOC emission limits are not being exceeded. Again, the conservative approach to the reestablishment calculation is to use the control efficiency of 99 percent, which yields 6 percent control over the requirement available for credits.

The reestablished offsets are enforceable. Field inspections have demonstrated that each of these casing gas collection systems are completely enclosed and the excess vapors are transported to an operating steam generator for combustion. The operating steam generators also undergo annual source tests to demonstrate compliance with permitted emissions limits.

Appendix II presents the cumulative emission profile from September 12, 1979 through June 22, 1987, the cumulative emission profile reestablishment test, source test information and casing collection system permit information.

APPENDIX I

CENTRAL SOURCE

Chevron U.S.A.
VOC Offsets

EMISSION PROFILES

CENTRAL SOURCE

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008052B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008056B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109C	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008121B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008122B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008123B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008124B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008125B	12/04/79	Retrofit scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008041B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008046B	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
4008109D	02/19/80	Decrease PM control efficiency; 70% to 40%	0.00	0.00	0.00	0.00	0.00	0.00
		PM emission increase offset with road paving						
4008127A	02/21/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008301A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-165.00	0.00
4008302B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-374.40	0.00
4008303B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-715.00	0.00
4008304A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-344.60	0.00
4008305B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-195.00	0.00
4008306B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-390.00	0.00
4008307A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-135.00	0.00
4008308B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-510.00	0.00
4008309C	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-585.00	0.00
4008310B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-208.80	0.00
4008311A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-418.90	0.00
4008313B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-877.50	0.00
4008315A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-222.00	0.00
4008316B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-463.50	0.00
4008322B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-460.30	0.00
4008323A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-598.00	0.00
4008324B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-249.20	0.00
4008325A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-432.50	0.00
4008326A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-75.00	0.00
4008327A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-45.00	0.00
4008328B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-80.90	0.00
4008329B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-85.00	0.00
4008330B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-40.40	0.00
4008331A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-131.40	0.00
4008333A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-255.00	0.00
4008334A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	600.00	0.00
4008335A/B	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	300.00	0.00
4008320A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-225.00	0.00
4008340A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-240.00	0.00
4008341A	05/19/80	Modify TEOR operation control efficiency	0.00	0.00	0.00	0.00	-690.00	0.00
4008146	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008146B 2/20/86					
4008147	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008147A 2/20/86					
4008148	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008148A 2/20/86					
4008149	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008149B & C 2/20/86					
4008152	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008152A 2/20/86					

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008153	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008153A 2/20/86						
4008154	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008154A 2/20/86						
4008155	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008155A 2/20/86						
4008156	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008156A 2/20/86						
4008157	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008157A 2/20/86						
4008158	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008158B 6/19/86						
4008159	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008159B/C 6/19/86						
4008160	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008160A 6/19/86						
4008161	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008161A 6/19/86						
4008162	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008162A 6/19/86						
4008163	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008163A 6/19/86						
4008164	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008164A 6/19/86						
4008165	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008165A 6/19/86						
4008166	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008166A 6/19/86						
4008180	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008180A 6/19/86						
4008181	05/19/80	62.5 MM BTU/hr oil fired steam generator	This A/C cancelled and replaced by A/C # 4008181A 6/19/86						
4008146A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008149A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008159A	05/19/80	Flue gas scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008360	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	18.79	0.00	
4008361	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	25.08	0.00	
4008362	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	24.48	0.00	
4008332A	05/19/80	Modify TEOR operation	Cancelled and replaced by 4008332B 9/26/83						
4008364	05/19/80	TEOR operation	Cancelled and replaced by 4008364A 9/26/83						
4008365	05/19/80	TEOR operation	Cancelled and replaced by 4008332B 9/26/83						
4008366	05/19/80	TEOR operation	Cancelled and replaced by 4008364A 9/26/83						
4008367	05/19/80	TEOR operation	0.00	0.00	0.00	0.00	21.13	0.00	
4008017B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008018A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008019A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008020A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008021A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008022A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008023A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008024B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008025A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008037C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00	
4008038A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00	
4008039A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00	
4008040A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00	
4008041C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008042A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008043A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008044A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008045A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008046C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008047B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008048B	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	
4008049A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008050A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008051A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008052C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008056C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008061A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008062R	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008103A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008104A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008105A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008109E	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008113A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008114A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008115A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008116A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008117A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008121C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008122C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008123C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008124C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008125C	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008128A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008129A	09/15/80	Install Oxygen analyzer/controller	0.00	0.00	0.00	-96.00	0.00	0.00
4008221A	09/16/80	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008224A	09/16/80	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00
4008302C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008313D	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008316C	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008323B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008331B	10/09/80	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008211A	11/14/80	Scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008129B	01/15/81	Lo-NOx staged combustion burner	0.00	0.00	0.00	0.00	0.00	0.00
4008018B	01/23/81	Experimental reverse jet scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008303C	02/12/81	Modify TEOR operation; add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008325C	02/12/81	Modify TEOR operation; add 2 wells	0.00	0.00	0.00	0.00	5.00	0.00
4008331C	02/12/81	Modify TEOR operation; add 3 wells	0.00	0.00	0.00	0.00	7.50	0.00
4008310C	02/13/81	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008001A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-63.90	0.00	0.00
4008002A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008003A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008004A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008005A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008006A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008007A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008008A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008009A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008010A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-59.90	0.00	0.00
4008011A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008012A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008013A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008014A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008015A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008016A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008018C	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008029A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008030A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008053A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008054A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008055A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008057A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008058A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008059A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008060A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008063A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-54.91	0.00	0.00
4008139A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008140A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008141A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008142A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008143A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008144A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008145A	02/13/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008326B	02/17/81	Modify TEDR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008015A	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008037D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008041D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008046D	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008109E	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008114B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008115B	02/18/81	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008211B	03/11/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-50.32	0.00	0.00
4008217A	03/11/81	Install Oxygen analyzer/controller	0.00	0.00	0.00	-59.90	0.00	0.00
4008222A	04/15/81	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008224A	04/15/81	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008244A	04/15/81	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008245A	04/15/81	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008010B	09/04/81	Rule 424 scrubber serving 6 S. G.'s	A. to C. expired 9/4/83. Replaced by 4008025B 4/15/82					
4008B07	09/04/81	Soda ash storage tank	0.18	0.00	0.00	0.00	0.00	0.00
4008002B	09/04/81	Rule 424 scrubber serving 12 S. G.'s	Cancelled and replaced by 4008002C 8/1/82					
4008B08	09/04/81	Soda ash storage tank	0.18	0.00	0.00	0.00	0.00	0.00
4008322C	09/04/81	Modify TEDR operation; add 7 wells	0.00	0.00	0.00	0.00	17.50	0.00
4008313E	10/14/81	Modify TEDR operation; add 2 wells	0.00	0.00	0.00	0.00	5.00	0.00
4008325D	10/14/81	Modify TEDR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008222B	10/27/81	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008224B	10/27/81	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008245B	10/27/81	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008116B	01/11/82	Ammonia injection system	A. to C. expired 1/11/84					
4008316D	01/18/82	Modify TEDR operation; add 1 well	0.00	0.00	0.00	0.00	2.50	0.00
4008222B	01/26/82	Transfer of location	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008025B	04/15/82	Flue gas scrubber for 4 S. G.'s	0.00	0.00	0.00	0.00	0.00	0.00	
4008189	04/15/82	62.5 MM BTU/hr oil fired steam generator	Cancelled and replaced by 4008189A 1/18/83						
4008190	04/15/82	62.5 MM BTU/hr oil fired steam generator	Cancelled and replaced by 4008190A 1/18/83						
4008059B	06/17/82	T of L to western stationary source	-35.30	-0.72	-39.70	-154.83	-2.52	-12.60	
4008002C	08/01/82	Scrubber for 12 steam generators	-8.62	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008049 to scrubber	-19.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008050 to scrubber	-19.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008051 to scrubber	-19.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008057 to scrubber	-8.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008058 to scrubber	-8.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008061 to scrubber	-19.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008062 to scrubber	-19.61	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008103 to scrubber	-20.29	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008104 to scrubber	-20.29	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008105 to scrubber	-20.29	0.00	0.00	0.00	0.00	0.00	
	08/01/82	Connect S. G. # 4008116 to scrubber	-20.29	0.00	0.00	0.00	0.00	0.00	
4008006B	08/01/82	Transfer of Location	0.00	0.00	0.00	0.00	0.00	0.00	
4008006C	08/01/82	Scrubber for 4 new & 1 existing S. G.'s	0.00	0.00	-446.57	0.00	0.00	0.00	
4008037E	08/01/82	North American Lo-NOx burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008038B	08/01/82	North American Lo-NOx burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008039B	08/01/82	North American Lo-NOx burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008040B	08/01/82	North American Lo-NOx burner	0.00	0.00	0.00	-192.00	0.00	0.00	
4008191	08/01/82	62.5 MM BTU/hr oil fired steam generator	49.61	1.40	103.62	178.18	5.84	29.49	
4008192	08/01/82	62.5 MM BTU/hr oil fired steam generator	49.61	1.40	103.62	178.18	5.84	29.49	
4008193	08/01/82	62.5 MM BTU/hr oil fired steam generator	49.61	1.40	103.62	178.18	5.84	29.49	
4008194	08/01/82	62.5 MM BTU/hr oil fired steam generator	49.61	1.40	103.62	178.18	5.84	29.49	
4008374	08/01/82	TEOR operation serving 58 wells	0.00	0.00	0.00	0.00	-428.00	0.00	
4008818	08/01/82	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00	
4008121D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008122D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008123D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008124D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008125D	08/04/82	Replacement steam generator	0.00	0.00	0.00	0.00	0.00	0.00	
4008128B	08/12/82	Exp. Lo-NOx staged combustion burner	0.00	0.00	0.00	0.00	0.00	0.00	
4008438	10/07/82	Rail car coal unloading operation	52.40	0.00	0.00	0.00	0.00	0.00	
4008439	10/07/82	Coal transfer and storage operation	Does not operate when 4008438 is operating						
4008440	10/07/82	Limestone receiving and storage	0.27	0.00	0.00	0.00	0.00	0.00	
4008441	10/07/82	Coal fired steam generator	79.20	0.00	132.00	429.60	62.40	400.80	
4008442	10/07/82	Ash handling and disposal	2.00	0.00	0.00	0.00	0.00	0.00	
4008013B	01/18/83	Multiple locations for SG	0.60	0.00	449.90	0.00	0.10	0.20	
4008189A	01/18/83	62.5 MM BTU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
4008190A	01/18/83	62.5 MM BTU/hr oil fired steam generator	67.12	17.51	99.36	288.00	6.39	31.95	
	01/18/83	Surrender P to Q # 4008005	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to Q # 4008010	-43.00	-8.10	-47.70	-184.32	-3.10	-15.40	
	01/18/83	Surrender P to Q # 4008030	-36.70	-6.90	-452.30	-154.83	-2.60	-13.10	
	01/18/83	Surrender P to Q # 4008060	-39.40	-7.40	-43.70	-168.96	-2.80	-14.10	
4008007B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008007C 11/26/84						
4008037F	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008037E 11/26/84						
4008038C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008038D 11/26/84						

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008039C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008039D 11/26/84					
4008040C	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008040D 11/26/84					
4008063B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008063C 11/26/84					
4008117B	08/12/83	Raise fuel sulfur to 1.2% by weight	Cancelled and replaced by 4008117C 11/26/84					
4008332B	09/26/83	Mod. TEOR operation; consolidate systems	0.00	0.00	0.00	0.00	-264.40	0.00
4008364A	09/26/83	Mod. TEOR operation; consolidate systems	A to C surrendered by applicant 8/29/85					
4008334C	10/07/83	Modify TEOR operation; add incinerator	0.00	0.00	0.00	0.00	-882.10	0.00
4008335C	10/07/83	Modify TEOR operation; add incinerator	0.00	0.00	0.00	0.00	-470.40	0.00
4008303D	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00
4008311C	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	6.30	0.00
4008320A	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00
4008322E	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	6.90	0.00
4008330C	04/03/84	Modify TEOR operation; add wells	0.00	0.00	0.00	0.00	3.10	0.00
4008305C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008306C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008308C	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008315B	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008316E	04/30/84	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008443	05/11/84	3,000 bbl wash tank	0.00	0.00	0.00	0.00	12.90	0.00
4008444	05/11/84	5,000 bbl wash tank	0.00	0.00	0.00	0.00	13.80	0.00
4008323C	06/08/84	Modify TEOR operation	0.00	0.00	0.00	0.00	18.84	0.00
4008325E	06/08/84	Modify TEOR operation	0.00	0.00	0.00	0.00	3.14	0.00
4008304B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008304C 5/14/85					
4008307B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008307C 5/14/85					
4008308D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008308E 5/14/85					
4008309D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008309E 5/14/85					
4008310D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008310E 5/14/85					
4008311D	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008311E 5/14/85					
4008333B	08/27/84	Modify TEOR operation	Cancelled and replaced by 4008333C 5/14/85					
4008331D	10/08/84	Modify TEOR operation; add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
4008002D	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00
4008024C	10/29/84	Revise scrubber eff. & emission limits	35.79	1.00	13.10	36.30	0.80	3.99
4008025C	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008049B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008050B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008051B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008055B	10/29/84	Revise scrubber eff. & emission limits	-15.75	0.00	0.00	0.00	0.00	0.00
4008057B	10/29/84	Revise scrubber eff. & emission limits	-7.80	0.00	0.00	0.00	0.00	0.00
4008061B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008062B	10/29/84	Revise scrubber eff. & emission limits	-17.80	0.00	0.00	0.00	0.00	0.00
4008103B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008104B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008105B	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008116D	10/29/84	Revise scrubber eff. & emission limits	-15.60	0.00	0.00	0.00	0.00	0.00
4008127B	10/29/84	Revise scrubber eff. & emission limits	-35.79	0.00	0.00	0.00	0.00	0.00
4008140B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008141B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008142B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99
4008143B	10/29/84	Revise scrubber eff. & emission limits	34.80	0.20	13.10	36.30	0.80	3.99

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008114C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008115C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008116C/D	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008117C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008121E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008122E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008123E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008124E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008125E	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008129B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008139B	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008140C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008141C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008142C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008143C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008144C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
4008145C	11/26/84	Increase SO2 control eff. for Rule 424	0.00	0.00	0.00	0.00	0.00	0.00	
	11/26/84	Surrender A to C # 4008339A	0.00	0.00	0.00	0.00	-37.50	0.00	
4008313F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008313G 3/20/85						
4008315C	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008315D 3/20/85						
4008316F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008316G 3/20/85						
4008325F	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008325F 3/20/85						
4008326C	11/30/84	Modify TEOR operation	Cancelled and replaced by A to C # 4008326D 3/20/85						
	11/30/84	Surrender A to C # 4008327A	0.00	0.00	0.00	0.00	-7.50	0.00	
4008025D	01/04/85	Modify scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008313G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	361.10	0.00	
4008315D	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	69.10	0.00	
4008316G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	207.20	0.00	
4008325G	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	194.70	0.00	
4008326D	03/29/85	Modify TEOR operation	0.00	0.00	0.00	0.00	69.10	0.00	
4008304C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	100.50	0.00	
4008307C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	94.20	0.00	
4008308E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	141.30	0.00	
4008309E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	270.10	0.00	
4008310E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	59.70	0.00	
4008311E	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	125.60	0.00	
4008333C	05/14/85	Modify TEOR operation	0.00	0.00	0.00	0.00	72.20	0.00	
4008301B	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	133.60	0.00	
4008331E	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	70.60	0.00	
40083B1	06/28/85	New TEOR operation	0.00	0.00	0.00	0.00	147.50	0.00	
	06/28/85	Surrender P to O # 4008328	0.00	0.00	0.00	0.00	-20.00	0.00	
	06/28/85	Surrender P to O # 4008329	0.00	0.00	0.00	0.00	-20.00	0.00	
	06/28/85	Surrender P to O # 4008330	0.00	0.00	0.00	0.00	-10.00	0.00	
	06/28/85	Surrender A to C # 4008328B	0.00	0.00	0.00	0.00	-67.50	0.00	
	06/28/85	Surrender A to C # 4008329B	0.00	0.00	0.00	0.00	-85.00	0.00	
	06/28/85	Surrender A to C # 4008330B	0.00	0.00	0.00	0.00	-60.00	0.00	
4008322F	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	131.10	0.00	
4008323D	06/28/85	Modify TEOR operation	0.00	0.00	0.00	0.00	260.40	0.00	
4008303E	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00	

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008332C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-39.00	0.00
4008334D	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-78.00	0.00
4008335D	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	-52.50	0.00
4008340C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	0.00	0.00
4008341C	08/13/85	Modify TEOR operation	0.00	0.00	0.00	0.00	9.40	0.00
4008435A	09/27/85	Modify tank battery	0.00	0.00	0.00	0.00	0.00	0.00
4008003B	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008004B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-21.12	0.00	0.00
4008006D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00
4008007D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-15.48	0.00	0.00
4008008B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008009B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008012B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008013C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008014C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-7.74	0.00	0.00
4008016B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008017E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008018F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008019C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008020C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008021C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008022C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008023C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008024F	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008025E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008037H	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008038E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008039E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008040E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
40080416	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008042C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008043C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008044C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008045C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008046F	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008047C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008048C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008049D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008050D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008051D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008052E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008053C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008054B	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008055D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-8.45	0.00	0.00
4008056E	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008061D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008062D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008063D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-16.90	0.00	0.00
4008103D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008014D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008105D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008109H	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008113C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008114D	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008115E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008116E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008117E	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	19.20	0.00	0.00
4008121F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008122F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008123F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008124F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008125F	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	9.60	0.00	0.00
4008127C	12/03/85	Revise NOx emission limits	Withdrawn by applicant 11/08/85					
4008128C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00
4008129C	12/03/85	Revise NOx emission limits	0.00	0.00	0.00	-96.00	0.00	0.00
4008211C	01/10/86	Revise approved emission limits	-13.47	-7.02	-49.02	-27.23	0.00	0.00
4008217B	01/10/86	Revise approved emission limits	-18.67	-9.82	-68.38	-37.65	0.00	0.00
4008221B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-45.36	0.00	0.00
4008222C	01/10/86	Revise approved emission limits	-22.28	-3.68	-66.60	-45.36	0.00	0.00
4008223B	01/10/86	Revise approved emission limits	-22.28	-3.68	-7.40	-45.36	0.00	0.00
4008224B	01/10/86	Revise approved emission limits	-22.28	-3.68	0.00	-13.50	0.00	0.00
4008441A	01/10/86	Revise approved emission limits	4.95	3.26	-85.08	-64.95	-60.70	-392.30
	01/10/86	Surrender P to O 4008255	-0.29	0.00	-0.04	-132.02	-1.34	-18.11
	01/10/86	Surrender P to O 4008256	-0.29	0.00	-0.04	-132.02	-1.34	-18.11
4008002F	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.22	0.00	0.00	0.00
4008006E	02/20/86	Revise existing S. G. emission limits	Withdrawn by applicant during processing					
4008007E	02/20/86	Revise existing S. G. emission limits	-0.61	-4.64	4.08	0.00	0.00	0.00
4008012C/D	02/20/86	Revise existing S. G. emission limits	-13.66	-4.26	-401.09	0.00	0.00	0.00
4008014D	02/20/86	Revise existing S. G. emission limits	-14.06	-4.26	0.41	0.00	0.00	0.00
4008015D	02/20/86	Revise existing S. G. emission limits	-13.75	-4.26	-4.05	0.00	0.00	0.00
4008029B	02/20/86	Revise existing S. G. emission limits	-17.00	-4.65	-437.69	0.00	0.00	0.00
4008037I	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008038J	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008039F	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008040F	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008041H	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008042D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008043D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008044D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008045D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008046G	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008047D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008048D	02/20/86	Revise existing S. G. emission limits	-3.53	-10.56	1.00	0.00	0.00	0.00
4008049E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008050E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008051E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008052F	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008053D	02/20/86	Revise existing S. G. emission limits	-15.50	-4.65	0.44	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008056F	02/20/86	Revise existing S. G. emission limits	-5.38	-10.56	1.00	0.00	0.00	0.00
4008057D	02/20/86	Revise existing S. G. emission limits	-2.15	-4.65	-4.42	0.00	0.00	0.00
4008061E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008062E	02/20/86	Revise existing S. G. emission limits	-6.14	-10.56	-10.05	0.00	0.00	0.00
4008063E	02/20/86	Revise existing S. G. emission limits	-3.37	-5.07	4.51	0.00	0.00	0.00
4008103E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008104E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008105E	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008109I	02/20/86	Revise existing S. G. emission limits	-5.37	-10.56	-10.05	0.00	0.00	0.00
4008113D	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	4.54	0.00	0.00	0.00
4008114E	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	5.66	0.00	0.00	0.00
4008115F	02/20/86	Revise existing S. G. emission limits	-42.88	-11.04	-6.01	0.00	0.00	0.00
4008116F	02/20/86	Revise existing S. G. emission limits	-8.45	-11.04	-6.01	0.00	0.00	0.00
4008117F	02/20/86	Revise existing S. G. emission limits	-8.14	-11.52	10.25	0.00	0.00	0.00
4008121G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008122G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008123G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	-10.05	0.00	0.00	0.00
4008124G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008125G	02/20/86	Revise existing S. G. emission limits	-3.52	-10.56	1.00	0.00	0.00	0.00
4008128D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008129D	02/20/86	Revise existing S. G. emission limits	-42.86	-11.04	-1039.97	0.00	0.00	0.00
4008146B	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008147A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008148A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008149B/C	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008152A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008153A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008154A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008155A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008156A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008157A	02/20/86	62.5 MM BTU/hr Steam Generator	49.92	24.64	110.53	192.00	6.40	32.00
4008158A	02/20/86	Revise scrubber conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008265	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008266	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008267	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008268	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008269	02/27/86	62.5 MM BTU/hr gas fired Steam Generator	4.80	0.00	0.58	115.20	2.69	33.60
4008332D	05/07/86	Modify TEOR operation 27-CC-1	0.00	0.00	0.00	0.00	0.00	0.00
4008017D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008018E	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008019D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008020D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008021D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008022D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008023D	06/19/86	Revise steam generator cond. of approval	-17.28	0.00	-5.95	0.00	0.00	0.00
4008024E	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008025F	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008053D	06/19/86	Revise steam generator cond. of approval	-1.53	0.00	0.00	0.00	0.00	0.00
4008055E	06/19/86	Revise steam generator cond. of approval	-1.20	0.00	-2.60	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008127C	06/19/86	Revise steam generator cond. of approval	-3.78	0.00	-5.91	0.00	0.00	0.00
4008140D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008141D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008142D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008143D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008144D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008145D	06/19/86	Revise steam generator cond. of approval	-12.68	-3.22	-12.06	-36.00	-0.79	-4.00
4008159B	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Revise flue gas scrubber cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008160A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008161A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008162A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008163A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008164A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008165A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008166A	06/19/86	Revise steam generator cond. of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008190C	06/19/86	Revise steam generator cond. of approval	-3.78	7.10	-21.95	0.00	0.00	0.00
4008017F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008018G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008019E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008020E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008021E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008022E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008023E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008024H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008025G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008041I	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008042E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008043E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008044E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008045E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008046H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008047E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008048E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008049F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008050F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008051F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008052G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008056G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008061F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008062F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008103F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008104F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008105F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008109J	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008113E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008114F	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008115G	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008116B	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008117B	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-115.20	0.00	0.00
4008121H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008122H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008123H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008124H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008125H	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-105.60	0.00	0.00
4008127D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008139C	06/19/86	Revise SG authorized emission limits	22.10	0.00	-1.73	-96.00	0.00	0.00
4008140E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008141E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008142E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008143E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008144E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008145E	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008146C	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008147B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008148B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008149D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008152B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008153B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008154D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008155D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008156D	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008157B	06/19/86	Install wet ESP serving 10 SG's	-14.28	0.00	0.00	0.00	0.00	0.00
4008158D	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008159C	06/19/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00
4008159D	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008160B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008161B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008162B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008163B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008164B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008165B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008166B	06/19/86	Install wet ESP serving 8 SG's	-32.10	0.00	0.00	0.00	0.00	0.00
4008180A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008181A	06/19/86	Revise SG conditions of approval	49.92	24.64	110.53	192.00	6.40	32.00
4008189D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008190D	06/19/86	Retrofit Lo-NOx staged combustion burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008191A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008192A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008193A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008194A	06/19/86	Revise SG authorized emission limits	0.00	21.33	0.00	0.00	0.00	0.00
4008217C	06/19/86	Revise op. cond. from 100/75 to 80/80	-4.66	-1.47	-4.56	-26.16	-0.53	-2.64
4008221C	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-61.78	-1.27	-6.36
4008222D	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-10.69	-61.78	-1.27	-6.36
4008224B	06/19/86	Revise op. cond. from 100/90 to 80/80	-11.00	-5.75	-12.83	-70.98	-1.27	-6.36
4008263	06/19/86	62.5 MM BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00
4008264	06/19/86	62.5 MM BTU/hr oil fired steam generator	49.92	24.64	88.47	192.00	6.40	32.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
400B385H	02/02/87	Modify TEOR operation; revise well roster	0.00	0.00	0.00	0.00	0.00	0.00
400B150B	04/08/87	Change steam generator ESL's	-6.04	0.00	23.55	-54.91	0.00	0.00
400B046I	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B047B	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B048B	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B052H	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B056H	05/22/87	Increase S. G. hydrocarbon ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B001B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	5.01	0.00
400B002B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B003C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
400B004C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B006B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B007F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
400B008C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B009C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B012E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
400B013D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B014E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
400B015F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
400B016D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B017H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B018I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B019F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B020F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B021F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B022F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B023F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B025H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B029C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B037J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B038K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B039G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B040G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B041J	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B042F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B043F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B044F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B045F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B049B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B050G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B051G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B053F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B054C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B055F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B057E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B061B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B062B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
400B063F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
400B103G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008104G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008105G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008109K	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008113F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008114G	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008115H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008116H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008117H	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008121I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008122I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008123I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008124I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008125I	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008127F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008128E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008129E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008139E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008146F	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008147D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008148D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008149E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008152C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008153C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008154C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008155C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008156C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008157C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008158C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008159E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008160C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008161C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008162C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008163C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008164C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008165C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008166C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008180B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008181B	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008189E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008190E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008191C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008192C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008193C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008194C	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	9.52	0.00
4008211D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008217D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008221D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008222E	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00
4008224D	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.86	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008263A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008264A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008265A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008266A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008267A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008268A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008269A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008273A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008274A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008275A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008276A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008277A	09/29/87	Change steam generator HC ESL's	0.00	0.00	0.00	0.00	4.27	0.00
4008024J	11/04/87	Modify SO2 monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
Total adjustments from 9/12/79 to 6/22/87 =			93.05	137.06	-2541.33	-1697.61	-6434.53	2054.17

Rule 210.1 rule change adjustments =

1697.61 6434.53

			93.05	137.06	-2541.33	0.00	0.00	2054.17
4008001C	12/02/87	Change of location of portable S. G.	0.00	0.00	0.00	0.00	0.00	0.00
4008017I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008018J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008019G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008020G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008021G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008022G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008023G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008024K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008025I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008037K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008038L	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008039H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008040H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008041K	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008042G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008043G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008044G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008045G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008046J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008047H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008049H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008050H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008051H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008052I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008056I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008061H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008062H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008103H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008104H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008105H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008109L	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008113G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008114H	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008115I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008116I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008117I	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008121J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008122J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008123J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008124J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008125J	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008127G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008128F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008129F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008139F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008140G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008141G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008142G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008143G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008144G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008145G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008146G	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008147E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008148E	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008149F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008152D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008153D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008154D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008155D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008156D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008157D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008159F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008160D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008161D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008162D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008163D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008164D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008165D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008166D	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008189F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008190F	12/16/87	Revise cogen NOx offset requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008313H	02/12/88	TEDR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008315E	02/12/88	TEDR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008316H	02/12/88	TEDR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008325H	02/12/88	TEDR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008326E	02/12/88	TEDR modification; change incinerators	0.00	0.00	0.00	0.00	0.00	0.00
4008301C	09/29/88	TEDR modifications	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Central Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008304D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008305F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008306F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008307D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008308F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008309F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008310F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008311F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008313J	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008315F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008316I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008322G	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008323E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008324E	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008325I	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008326F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008331F	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008333D	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
40083B1A	09/29/88	TEOR modifications	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Rule 427 piston engine controls	0.00	0.00	0.00	0.00	0.00	0.00
4008019H	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008116J	11/28/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008334E	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00
4008335F	02/03/89	TEOR Mod.; change wells, delete incin.	0.00	0.00	0.00	0.00	0.00	0.00

Total authorized emission rate changes since 9/12/79 = 93.05 137.06 -2541.33 0.00 0.00 2054.17

**Chevron U.S.A.
VOC Offsets**

**EMISSION PROFILE
REESTABLISHMENT TEST**

CENTRAL SOURCE

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
52 B	12-04-79	0.00	0.00		0.00
56 B	12-04-79	0.00	0.00		0.00
109 C	12-04-79	0.00	0.00		0.00
121 B	12-04-79	0.00	0.00		0.00
122 B	12-04-79	0.00	0.00		0.00
123 B	12-04-79	0.00	0.00		0.00
124 B	12-04-79	0.00	0.00		0.00
125 B	12-04-79	0.00	0.00		0.00
37 B	2-19-80	0.00	0.00		0.00
41 B	2-19-80	0.00	0.00		0.00
46 B	2-19-80	0.00	0.00		0.00
109 D	2-19-80	0.00	0.00		0.00
127 A	2-21-80	0.00	0.00		0.00
301 A	5-19-80	-165.00	-165.00		-165.00
302 B	5-19-80	-374.40	-539.40	-374.40	-165.00
303 B	5-19-80	-715.00	-1254.40	-715.00	-165.00
304 A	5-19-80	-344.60	-1599.00		-509.60
305 B	5-19-80	-195.00	-1794.00	-195.00	-509.60
306 B	5-19-80	-390.00	-2184.00	-390.00	-509.60
307 A	5-19-80	-135.00	-2319.00		-644.60
308 B	5-19-80	-510.00	-2829.00	-510.00	-644.60
309 C	5-19-80	-585.00	-3414.00		-1229.60
310 B	5-19-80	-208.80	-3622.80	-208.80	-1229.60
311 A	5-19-80	-418.90	-4041.70	-418.90	-1229.60
313 B	5-19-80	-877.50	-4919.20	-877.50	-1229.60
315 A	5-19-80	-222.00	-5141.20	-222.00	-1229.60
316 B	5-19-80	-463.50	-5604.70	-463.50	-1229.60
322 B	5-19-80	-460.30	-6065.00	-460.30	-1229.60
323 A	5-19-80	-598.00	-6663.00	-598.00	-1229.60
324 B	5-19-80	-249.20	-6912.20		-1478.80
325 A	5-19-80	-432.50	-7344.70	-432.50	-1478.80
326 A	5-19-80	-75.00	-7419.70		-1553.80
327 A	5-19-80	-45.00	-7464.70	-45.00	-1553.80
328 B	5-19-80	-80.90	-7545.60		-1634.70
329 B	5-19-80	-85.00	-7630.60	-85.00	-1634.70
330 B	5-19-80	-40.40	-7671.00	-40.40	-1634.70
331 A	5-19-80	-131.40	-7802.40	-131.40	-1634.70
333 A	5-19-80	-255.00	-8057.40	-255.00	-1634.70
334 B	5-19-80	600.00	-7457.40		-1034.70
335 B	5-19-80	300.00	-7157.40		-734.70
320 A	5-19-80	-225.00	-7382.40		-959.70
340 A	5-19-80	-240.00	-7622.40		-1199.70
341 A	5-19-80	-690.00	-8312.40		-1889.70
146 A	5-19-80	0.00	-8312.40		-1889.70
147 A	5-19-80	0.00	-8312.40		-1889.70
148 A	5-19-80	0.00	-8312.40		-1889.70
149 A	5-19-80	0.00	-8312.40		-1889.70
152 A	5-19-80	0.00	-8312.40		-1889.70

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
153	5-19-80		-8312.40		-1889.70
154	5-19-80		-8312.40		-1889.70
155	5-19-80		-8312.40		-1889.70
156	5-19-80		-8312.40		-1889.70
157	5-19-80		-8312.40		-1889.70
158	5-19-80		-8312.40		-1889.70
159	5-19-80		-8312.40		-1889.70
160	5-19-80		-8312.40		-1889.70
161	5-19-80		-8312.40		-1889.70
162	5-19-80		-8312.40		-1889.70
163	5-19-80		-8312.40		-1889.70
164	5-19-80		-8312.40		-1889.70
165	5-19-80		-8312.40		-1889.70
166	5-19-80		-8312.40		-1889.70
180	5-19-80		-8312.40		-1889.70
181	5-19-80		-8312.40		-1889.70
146 A	5-19-80		-8312.40		-1889.70
149 A	5-19-80		-8312.40		-1889.70
159 A	5-19-80		-8312.40		-1889.70
360	5-19-80	18.79	-8293.61		-1870.91
361	5-19-80	25.08	-8268.53		-1845.83
362	5-19-80	24.48	-8244.05		-1821.35
332 A	5-19-80		-8244.05		-1821.35
364	5-19-80		-8244.05		-1821.35
365	5-19-80		-8244.05		-1821.35
366	5-19-80		-8244.05		-1821.35
367	5-19-80	21.13	-8222.92		-1800.22
17 B	9-15-80		-8222.92		-1800.22
18 A	9-15-80		-8222.92		-1800.22
19 A	9-15-80		-8222.92		-1800.22
20 A	9-15-80		-8222.92		-1800.22
21 A	9-15-80		-8222.92		-1800.22
22 A	9-15-80		-8222.92		-1800.22
23 A	9-15-80		-8222.92		-1800.22
24 B	9-15-80		-8222.92		-1800.22
25 A	9-15-80		-8222.92		-1800.22
37 C	9-15-80		-8222.92		-1800.22
38 A	9-15-80		-8222.92		-1800.22
39 A	9-15-80		-8222.92		-1800.22
40 A	9-15-80		-8222.92		-1800.22
41 C	9-15-80		-8222.92		-1800.22
42 A	9-15-80		-8222.92		-1800.22
43 A	9-15-80		-8222.92		-1800.22
44 A	9-15-80		-8222.92		-1800.22
45 A	9-15-80		-8222.92		-1800.22
46 C	9-15-80		-8222.92		-1800.22
47 B	9-15-80		-8222.92		-1800.22
48 B	9-15-80		-8222.92		-1800.22
49 A	9-15-80		-8222.92		-1800.22

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
 REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
50 A	9-15-80		-8222.92		-1800.22
51 A	9-15-80		-8222.92		-1800.22
52 C	9-15-80		-8222.92		-1800.22
56 C	9-15-80		-8222.92		-1800.22
61 A	9-15-80		-8222.92		-1800.22
62 A	9-15-80		-8222.92		-1800.22
103 A	9-15-80		-8222.92		-1800.22
104 A	9-15-80		-8222.92		-1800.22
105 A	9-15-80		-8222.92		-1800.22
109 E	9-15-80		-8222.92		-1800.22
113 A	9-15-80		-8222.92		-1800.22
114 A	9-15-80		-8222.92		-1800.22
115 A	9-15-80		-8222.92		-1800.22
116 A	9-15-80		-8222.92		-1800.22
117 A	9-15-80		-8222.92		-1800.22
121 C	9-15-80		-8222.92		-1800.22
122 C	9-15-80		-8222.92		-1800.22
123 C	9-15-80		-8222.92		-1800.22
124 C	9-15-80		-8222.92		-1800.22
125 C	9-15-80		-8222.92		-1800.22
128 A	9-15-80		-8222.92		-1800.22
129 A	9-15-80		-8222.92		-1800.22
221 A	9-15-80		-8222.92		-1800.22
224 A	9-15-80		-8222.92		-1800.22
302 C	10-9-80		-8222.92		-1800.22
313 D	10-9-80		-8222.92		-1800.22
316 C	10-9-80		-8222.92		-1800.22
323 B	10-9-80		-8222.92		-1800.22
325 B	10-9-80		-8222.92		-1800.22
331 B	10-9-80		-8222.92		-1800.22
211 A	11-4-80		-8222.92		-1800.22
129 B	1-15-81		-8222.92		-1800.22
18 B	1-23-81		-8222.92		-1800.22
303 C	2-12-81		-8222.92		-1800.22
325 C	2-12-81	5.00	-8217.92		-1795.22
331 C	2-12-81	7.50	-8210.42		-1787.72
310 C	2-13-81	2.50	-8207.92		-1785.22
1 A	2-13-81		-8207.92		-1785.22
2 A	2-13-81		-8207.92		-1785.22
3 A	2-13-81		-8207.92		-1785.22
4 A	2-13-81		-8207.92		-1785.22
5 A	2-13-81		-8207.92		-1785.22
6 A	2-13-81		-8207.92		-1785.22
7 A	2-13-81		-8207.92		-1785.22
8 A	2-13-81		-8207.92		-1785.22
9 A	2-13-81		-8207.92		-1785.22
10 A	2-13-81		-8207.92		-1785.22
11 A	2-13-81		-8207.92		-1785.22
12 A	2-13-81		-8207.92		-1785.22

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
13 A	2-13-81		-8207.92		-1785.22
14 A	2-13-81		-8207.92		-1785.22
15 A	2-13-81		-8207.92		-1785.22
16 A	2-13-81		-8207.92		-1785.22
18 C	2-13-81		-8207.92		-1785.22
29 A	2-13-81		-8207.92		-1785.22
30 A	2-13-81		-8207.92		-1785.22
53 A	2-13-81		-8207.92		-1785.22
54 A	2-13-81		-8207.92		-1785.22
55 A	2-13-81		-8207.92		-1785.22
57 A	2-13-81		-8207.92		-1785.22
58 A	2-13-81		-8207.92		-1785.22
59 A	2-13-81		-8207.92		-1785.22
60 A	2-13-81		-8207.92		-1785.22
63 A	2-13-81		-8207.92		-1785.22
139 A	2-13-81		-8207.92		-1785.22
140 A	2-13-81		-8207.92		-1785.22
141 A	2-13-81		-8207.92		-1785.22
142 A	2-13-81		-8207.92		-1785.22
143 A	2-13-81		-8207.92		-1785.22
144 A	2-13-81		-8207.92		-1785.22
145 A	2-13-81		-8207.92		-1785.22
326 B	2-17-81	2.50	-8205.42		-1782.72
15 A	2-18-81		-8205.42		-1782.72
37 D	2-18-81		-8205.42		-1782.72
41 D	2-18-81		-8205.42		-1782.72
46 D	2-18-81		-8205.42		-1782.72
109 E	2-18-81		-8205.42		-1782.72
114 B	2-18-81		-8205.42		-1782.72
115 B	2-18-81		-8205.42		-1782.72
211 B	3-11-81		-8205.42		-1782.72
217 A	3-11-81		-8205.42		-1782.72
222 A	4-15-81		-8205.42		-1782.72
224 A	4-15-81		-8205.42		-1782.72
244 A	4-15-81		-8205.42		-1782.72
245 A	4-15-81		-8205.42		-1782.72
10 B	9-4-81		-8205.42		-1782.72
7	9-4-81		-8205.42		-1782.72
2 B	9-4-81		-8205.42		-1782.72
8	9-4-81		-8205.42		-1782.72
322 C	9-4-81	17.50	-8187.92		-1765.22
313 E	10-14-81	5.00	-8182.92		-1760.22
325 D	10-14-81	2.50	-8180.42		-1757.72
222 B	10-27-81		-8180.42		-1757.72
224 B	10-27-81		-8180.42		-1757.72
245 B	10-27-81		-8180.42		-1757.72
116 B	1-11-82		-8180.42		-1757.72
316 D	1-18-82	2.50	-8177.92		-1755.22
222 B	1-26-82		-8177.92		-1755.22

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #		DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
25	B	4-15-82		-8177.92		-1755.22
189		4-15-82		-8177.92		-1755.22
190		4-15-82		-8177.92		-1755.22
59	B	6-17-82	-2.52	-8180.44		-1757.74
2	C	8-1-82		-8180.44		-1757.74
49	S	8-1-82		-8180.44		-1757.74
50	S	8-1-82		-8180.44		-1757.74
51	S	8-1-82		-8180.44		-1757.74
57	S	8-1-82		-8180.44		-1757.74
58	S	8-1-82		-8180.44		-1757.74
61	S	8-1-82		-8180.44		-1757.74
62	S	8-1-82		-8180.44		-1757.74
103	S	8-1-82		-8180.44		-1757.74
104	S	8-1-82		-8180.44		-1757.74
105	S	8-1-82		-8180.44		-1757.74
116	S	8-1-82		-8180.44		-1757.74
6	B	8-1-82		-8180.44		-1757.74
6	C	8-1-82		-8180.44		-1757.74
37	E	8-1-82		-8180.44		-1757.74
38	B	8-1-82		-8180.44		-1757.74
39	B	8-1-82		-8180.44		-1757.74
40	B	8-1-82		-8180.44		-1757.74
191		8-1-82	5.84	-8174.60		-1751.90
192		8-1-82	5.84	-8168.76		-1746.06
193		8-1-82	5.84	-8162.92		-1740.22
194		8-1-82	5.84	-8157.08		-1734.38
374		8-1-82	-428.00	-8585.08		-2162.38
818		8-1-82		-8585.08		-2162.38
121	D	8-4-82		-8585.08		-2162.38
122	D	8-4-82		-8585.08		-2162.38
123	D	8-4-82		-8585.08		-2162.38
124	D	8-4-82		-8585.08		-2162.38
125	D	8-4-82		-8585.08		-2162.38
128	B	8-12-82		-8585.08		-2162.38
438		10-7-82		-8585.08		-2162.38
439		10-7-82		-8585.08		-2162.38
440		10-7-82		-8585.08		-2162.38
441		10-7-82	62.40	-8522.68		-2099.98
442		10-7-82		-8522.68		-2099.98
13	B	1-18-83	0.10	-8522.58		-2099.88
189	A	1-18-83	6.39	-8516.19		-2093.49
190	A	1-18-83	6.39	-8509.80		-2087.10
5	X	1-18-83	-2.60	-8512.40		-2089.70
10	X	1-18-83	-3.10	-8515.50		-2092.80
30	X	1-18-83	-2.60	-8518.10		-2095.40
60	X	1-18-83	-2.80	-8520.90		-2098.20
7	B	8-12-83		-8520.90		-2098.20
37	F	8-12-83		-8520.90		-2098.20
38	C	8-12-83		-8520.90		-2098.20

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
39 C	8-12-83		-8520.90		-2098.20
40 C	8-12-83		-8520.90		-2098.20
63 B	8-12-83		-8520.90		-2098.20
117 B	8-12-83		-8520.90		-2098.20
332 B	9-26-83	-264.40	-8785.30		-2362.60
364 A	9-26-83		-8785.30		-2362.60
334 C	10-7-83	-882.10	-9667.40		-3244.70
335 C	10-7-83	-470.40	-10137.80		-3715.10
303 D	4-3-84	3.10	-10134.70		-3712.00
311 C	4-3-84	6.30	-10128.40		-3705.70
320 A	4-3-84	3.10	-10125.30		-3702.60
322 E	4-3-84	6.90	-10118.40		-3695.70
330 C	4-3-84	3.10	-10115.30		-3692.60
305 C	4-30-84		-10115.30		-3692.60
306 C	4-30-84		-10115.30		-3692.60
308 C	4-30-84		-10115.30		-3692.60
315 B	4-30-84		-10115.30		-3692.60
316 C	4-30-84		-10115.30		-3692.60
443	5-11-84	12.90	-10102.40		-3679.70
444	5-11-84	13.80	-10088.60		-3665.90
323 C	6-8-84	18.84	-10069.76		-3647.06
325 E	6-8-84	3.14	-10066.62		-3643.92
304 B	8-27-84		-10066.62		-3643.92
307 B	8-27-84		-10066.62		-3643.92
308 D	8-27-84		-10066.62		-3643.92
309 D	8-27-84		-10066.62		-3643.92
310 D	8-27-84		-10066.62		-3643.92
311 D	8-27-84		-10066.62		-3643.92
333 B	8-27-84		-10066.62		-3643.92
331 D	10-8-84	3.14	-10063.48		-3640.78
2 D	10-29-84		-10063.48		-3640.78
24 C	10-29-84	0.80	-10062.68		-3639.98
25 C	10-29-84		-10062.68		-3639.98
49 B	10-29-84		-10062.68		-3639.98
50 B	10-29-84		-10062.68		-3639.98
51 B	10-29-84		-10062.68		-3639.98
55 B	10-29-84		-10062.68		-3639.98
57 B	10-29-84		-10062.68		-3639.98
61 B	10-29-84		-10062.68		-3639.98
62 B	10-29-84		-10062.68		-3639.98
103 B	10-29-84		-10062.68		-3639.98
104 B	10-29-84		-10062.68		-3639.98
105 B	10-29-84		-10062.68		-3639.98
116 D	10-29-84		-10062.68		-3639.98
127 B	10-29-84		-10062.68		-3639.98
140 B	10-29-84	0.80	-10061.88		-3639.18
141 B	10-29-84	0.80	-10061.08		-3638.38
142 B	10-29-84	0.80	-10060.28		-3637.58
143 B	10-29-84	0.80	-10059.48		-3636.78

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
144 B	10-29-84	0.80	-10058.68		-3635.98
145 B	10-29-84	0.80	-10057.88		-3635.18
189 B	10-29-84		-10057.88		-3635.18
190 B	10-29-84		-10057.88		-3635.18
340 B	10-29-84	-12.50	-10070.38		-3647.68
341 B	10-29-84	-32.50	-10102.88		-3680.18
11 X	10-29-84	-2.81	-10105.69		-3682.99
58 X	10-29-84	-2.93	-10108.62		-3685.92
339 X	10-29-84	-37.50	-10146.12		-3723.42
2 E	11-26-84		-10146.12		-3723.42
7 C	11-26-84		-10146.12		-3723.42
14 B	11-26-84		-10146.12		-3723.42
15 C	11-26-84		-10146.12		-3723.42
17 C	11-26-84		-10146.12		-3723.42
18 D	11-26-84		-10146.12		-3723.42
19 B	11-26-84		-10146.12		-3723.42
20 B	11-26-84		-10146.12		-3723.42
21 B	11-26-84		-10146.12		-3723.42
22 B	11-26-84		-10146.12		-3723.42
23 B	11-26-84		-10146.12		-3723.42
24 E	11-26-84		-10146.12		-3723.42
37 G	11-26-84		-10146.12		-3723.42
38 D	11-26-84		-10146.12		-3723.42
39 D	11-26-84		-10146.12		-3723.42
40 D	11-26-84		-10146.12		-3723.42
41 E	11-26-84		-10146.12		-3723.42
42 B	11-26-84		-10146.12		-3723.42
42 B	11-26-84		-10146.12		-3723.42
44 B	11-26-84		-10146.12		-3723.42
45 B	11-26-84		-10146.12		-3723.42
46 E	11-26-84		-10146.12		-3723.42
47 B	11-26-84		-10146.12		-3723.42
48 B	11-26-84		-10146.12		-3723.42
49 C	11-26-84		-10146.12		-3723.42
50 C	11-26-84		-10146.12		-3723.42
51 C	11-26-84		-10146.12		-3723.42
52 D	11-26-84		-10146.12		-3723.42
53 B	11-26-84		-10146.12		-3723.42
55 C	11-26-84		-10146.12		-3723.42
56 D	11-26-84		-10146.12		-3723.42
57 C	11-26-84		-10146.12		-3723.42
61 C	11-26-84		-10146.12		-3723.42
62 C	11-26-84		-10146.12		-3723.42
63 C	11-26-84		-10146.12		-3723.42
103 C	11-26-84		-10146.12		-3723.42
104 C	11-26-84		-10146.12		-3723.42
15 C	11-26-84		-10146.12		-3723.42
109 G	11-26-84		-10146.12		-3723.42
113 B	11-26-84		-10146.12		-3723.42

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
114 C	11-26-84		-10146.12		-3723.42
115 C	11-26-84		-10146.12		-3723.42
116 D	11-26-84		-10146.12		-3723.42
117 C	11-26-84		-10146.12		-3723.42
121 E	11-26-84		-10146.12		-3723.42
122 E	11-26-84		-10146.12		-3723.42
123 E	11-26-84		-10146.12		-3723.42
124 E	11-26-84		-10146.12		-3723.42
125 E	11-26-84		-10146.12		-3723.42
129 B	11-26-84		-10146.12		-3723.42
139 B	11-26-84		-10146.12		-3723.42
140 C	11-26-84		-10146.12		-3723.42
141 C	11-26-84		-10146.12		-3723.42
142 C	11-26-84		-10146.12		-3723.42
143 C	11-26-84		-10146.12		-3723.42
144 C	11-26-84		-10146.12		-3723.42
145 C	11-26-84		-10146.12		-3723.42
339 X	11-26-84	-37.50	-10183.62		-3760.92
313 F	11-30-84		-10183.62		-3760.92
315 C	11-30-84		-10183.62		-3760.92
316 F	11-30-84		-10183.62		-3760.92
325 F	11-30-84		-10183.62		-3760.92
326 C	11-30-84		-10183.62		-3760.92
327 X	11-30-84	-7.50	-10191.12		-3768.42
25 D	1-4-85		-10191.12		-3768.42
313 G	3-29-85	361.10	-9830.02		-3407.32
315 D	3-29-85	69.10	-9760.92		-3338.22
316 G	3-29-85	207.20	-9553.72		-3131.02
325 G	3-29-85	194.70	-9359.02		-2936.32
326 D	3-29-85	69.10	-9289.92		-2867.22
304 C	5-14-85	100.50	-9189.42		-2766.72
307 C	5-14-85	94.20	-9095.22		-2672.52
308 E	5-14-85	141.30	-8953.92		-2531.22
309 E	5-14-85	270.10	-8683.82		-2261.12
310 E	5-14-85	59.70	-8624.12		-2201.42
311 E	5-14-85	125.60	-8498.52		-2075.82
333 C	5-14-85	72.20	-8426.32		-2003.62
301 B	6-28-85	133.60	-8292.72		-1870.02
331 E	6-28-85	70.60	-8222.12		-1799.42
381	6-28-85	147.50	-8074.62		-1651.92
328 X	6-28-85	-20.00	-8094.62		-1671.92
329 X	6-28-85	-20.00	-8114.62		-1691.92
330 X	6-28-85	-10.00	-8124.62		-1701.92
328 X	6-28-85	-67.50	-8192.12		-1769.42
329 X	6-28-85	-85.00	-8277.12		-1854.42
330 X	6-28-85	-60.00	-8337.12		-1914.42
322 F	6-28-85	131.10	-8206.02		-1783.32
323 D	6-28-85	260.40	-7945.62		-1522.92
303 E	8-13-85		-7945.62		-1522.92

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
332 C	8-13-85	-39.00	-7984.62		-1561.92
334 D	8-13-85	-78.00	-8062.62		-1639.92
335 D	8-13-85	-52.50	-8115.12		-1692.42
340 C	8-13-85		-8115.12		-1692.42
341 C	8-13-85	9.40	-8105.72		-1683.02
435 A	9-27-85		-8105.72		-1683.02
3 B	12-3-85		-8105.72		-1683.02
4 B	12-3-85		-8105.72		-1683.02
6 D	12-3-85		-8105.72		-1683.02
7 D	12-3-85		-8105.72		-1683.02
8 B	12-3-85		-8105.72		-1683.02
9 B	12-3-85		-8105.72		-1683.02
12 B	12-3-85		-8105.72		-1683.02
13 C	12-3-85		-8105.72		-1683.02
14 C	12-3-85		-8105.72		-1683.02
16 B	12-3-85		-8105.72		-1683.02
17 E	12-3-85		-8105.72		-1683.02
18 F	12-3-85		-8105.72		-1683.02
19 C	12-3-85		-8105.72		-1683.02
20 C	12-3-85		-8105.72		-1683.02
21 C	12-3-85		-8105.72		-1683.02
22 C	12-3-85		-8105.72		-1683.02
23 C	12-3-85		-8105.72		-1683.02
24 F	12-3-85		-8105.72		-1683.02
25 E	12-3-85		-8105.72		-1683.02
37 H	12-3-85		-8105.72		-1683.02
38 E	12-3-85		-8105.72		-1683.02
39 E	12-3-85		-8105.72		-1683.02
40 E	12-3-85		-8105.72		-1683.02
41 G	12-3-85		-8105.72		-1683.02
42 C	12-3-85		-8105.72		-1683.02
43 C	12-3-85		-8105.72		-1683.02
44 C	12-3-85		-8105.72		-1683.02
45 C	12-3-85		-8105.72		-1683.02
46 F	12-3-85		-8105.72		-1683.02
47 C	12-3-85		-8105.72		-1683.02
48 C	12-3-85		-8105.72		-1683.02
49 D	12-3-85		-8105.72		-1683.02
50 D	12-3-85		-8105.72		-1683.02
51 D	12-3-85		-8105.72		-1683.02
52 E	12-3-85		-8105.72		-1683.02
53 C	12-3-85		-8105.72		-1683.02
54 B	12-3-85		-8105.72		-1683.02
55 D	12-3-85		-8105.72		-1683.02
56 E	12-3-85		-8105.72		-1683.02
61 D	12-3-85		-8105.72		-1683.02
62 D	12-3-85		-8105.72		-1683.02
63 D	12-3-85		-8105.72		-1683.02
103 D	12-3-85		-8105.72		-1683.02

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
14 D	12-3-85		-8105.72		-1683.02
105 D	12-3-85		-8105.72		-1683.02
109 H	12-3-85		-8105.72		-1683.02
113 C	12-3-85		-8105.72		-1683.02
114 D	12-3-85		-8105.72		-1683.02
115 E	12-3-85		-8105.72		-1683.02
116 E	12-3-85		-8105.72		-1683.02
117 E	12-3-85		-8105.72		-1683.02
121 F	12-3-85		-8105.72		-1683.02
122 F	12-3-85		-8105.72		-1683.02
123 F	12-3-85		-8105.72		-1683.02
124 F	12-3-85		-8105.72		-1683.02
125 F	12-3-85		-8105.72		-1683.02
127 C	12-3-85		-8105.72		-1683.02
128 C	12-3-85		-8105.72		-1683.02
129 C	12-3-85		-8105.72		-1683.02
211 C	1-10-86		-8105.72		-1683.02
217 B	1-10-86		-8105.72		-1683.02
221 B	1-10-86		-8105.72		-1683.02
222 C	1-10-86		-8105.72		-1683.02
223 B	1-10-86		-8105.72		-1683.02
224 B	1-10-86		-8105.72		-1683.02
441 A	1-10-86	-60.70	-8166.42		-1743.72
255 X	1-10-86	-1.34	-8167.76		-1745.06
256 X	1-10-86	-1.34	-8169.10		-1746.40
2 F	2-20-86		-8169.10		-1746.40
6 E	2-20-86		-8169.10		-1746.40
7 E	2-20-86		-8169.10		-1746.40
12 D	2-20-86		-8169.10		-1746.40
14 D	2-20-86		-8169.10		-1746.40
15 D	2-20-86		-8169.10		-1746.40
29 B	2-20-86		-8169.10		-1746.40
37 I	2-20-86		-8169.10		-1746.40
38 J	2-20-86		-8169.10		-1746.40
39 F	2-20-86		-8169.10		-1746.40
40 F	2-20-86		-8169.10		-1746.40
41 G	2-20-86		-8169.10		-1746.40
42 D	2-20-86		-8169.10		-1746.40
43 D	2-20-86		-8169.10		-1746.40
44 D	2-20-86		-8169.10		-1746.40
45 D	2-20-86		-8169.10		-1746.40
46 G	2-20-86		-8169.10		-1746.40
47 D	2-20-86		-8169.10		-1746.40
48 D	2-20-86		-8169.10		-1746.40
49 E	2-20-86		-8169.10		-1746.40
50 E	2-20-86		-8169.10		-1746.40
51 E	2-20-86		-8169.10		-1746.40
52 F	2-20-86		-8169.10		-1746.40
53 D	2-20-86		-8169.10		-1746.40

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
 REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
56 F	2-20-86		-8169.10		-1746.40
57 D	2-20-86		-8169.10		-1746.40
61 E	2-20-86		-8169.10		-1746.40
62 E	2-20-86		-8169.10		-1746.40
63 E	2-20-86		-8169.10		-1746.40
103 E	2-20-86		-8169.10		-1746.40
104 E	2-20-86		-8169.10		-1746.40
105 E	2-20-86		-8169.10		-1746.40
109 I	2-20-86		-8169.10		-1746.40
113 D	2-20-86		-8169.10		-1746.40
114 E	2-20-86		-8169.10		-1746.40
115 F	2-20-86		-8169.10		-1746.40
116 F	2-20-86		-8169.10		-1746.40
117 F	2-20-86		-8169.10		-1746.40
121 G	2-20-86		-8169.10		-1746.40
122 G	2-20-86		-8169.10		-1746.40
123 G	2-20-86		-8169.10		-1746.40
124 G	2-20-86		-8169.10		-1746.40
125 G	2-20-86		-8169.10		-1746.40
128 D	2-20-86		-8169.10		-1746.40
129 D	2-20-86		-8169.10		-1746.40
146 B	2-20-86	6.40	-8162.70		-1740.00
147 A	2-20-86	6.40	-8156.30		-1733.60
148 A	2-20-86	6.40	-8149.90		-1727.20
149 C	2-20-86	6.40	-8143.50		-1720.80
152 A	2-20-86	6.40	-8137.10		-1714.40
153 A	2-20-86	6.40	-8130.70		-1708.00
154 A	2-20-86	6.40	-8124.30		-1701.60
155 A	2-20-86	6.40	-8117.90		-1695.20
156 A	2-20-86	6.40	-8111.50		-1688.80
157 A	2-20-86	6.40	-8105.10		-1682.40
158 A	2-20-86		-8105.10		-1682.40
265	2-27-86	2.69	-8102.41		-1679.71
266	2-27-86	2.69	-8099.72		-1677.02
267	2-27-86	2.69	-8097.03		-1674.33
268	2-27-86	2.69	-8094.34		-1671.64
269	2-27-86	2.69	-8091.65		-1668.95
332 D	5-7-86		-8091.65		-1668.95
17 D	6-19-86		-8091.65		-1668.95
18 E	6-19-86		-8091.65		-1668.95
19 D	6-19-86		-8091.65		-1668.95
20 D	6-19-86		-8091.65		-1668.95
21 D	6-19-86		-8091.65		-1668.95
22 D	6-19-86		-8091.65		-1668.95
23 D	6-19-86		-8091.65		-1668.95
24 G	6-19-86	-0.79	-8092.44		-1669.74
25 F	6-19-86		-8092.44		-1669.74
53 D	6-19-86		-8092.44		-1669.74
55 E	6-19-86		-8092.44		-1669.74

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
127 C	6-19-86		-8092.44		-1669.74
140 D	6-19-86	-0.79	-8093.23		-1670.53
141 D	6-19-86	-0.79	-8094.02		-1671.32
142 D	6-19-86	-0.79	-8094.81		-1672.11
143 D	6-19-86	-0.79	-8095.60		-1672.90
144 D	6-19-86	-0.79	-8096.39		-1673.69
145 D	6-19-86	-0.79	-8097.18		-1674.48
159 B	6-19-86	6.40	-8090.78		-1668.08
159 C	6-19-86		-8090.78		-1668.08
160 A	6-19-86	6.40	-8084.38		-1661.68
161 A	6-19-86	6.40	-8077.98		-1655.28
162 A	6-19-86	6.40	-8071.58		-1648.88
163 A	6-19-86	6.40	-8065.18		-1642.48
164 A	6-19-86	6.40	-8058.78		-1636.08
165 A	6-19-86	6.40	-8052.38		-1629.68
166 A	6-19-86	6.40	-8045.98		-1623.28
189 C	6-19-86		-8045.98		-1623.28
190 C	6-19-86		-8045.98		-1623.28
17 F	6-19-86		-8045.98		-1623.28
18 G	6-19-86		-8045.98		-1623.28
19 E	6-19-86		-8045.98		-1623.28
20 E	6-19-86		-8045.98		-1623.28
21 E	6-19-86		-8045.98		-1623.28
22 E	6-19-86		-8045.98		-1623.28
23 E	6-19-86		-8045.98		-1623.28
24 H	6-19-86		-8045.98		-1623.28
25 G	6-19-86		-8045.98		-1623.28
41 I	6-19-86		-8045.98		-1623.28
42 E	6-19-86		-8045.98		-1623.28
43 E	6-19-86		-8045.98		-1623.28
44 E	6-19-86		-8045.98		-1623.28
45 E	6-19-86		-8045.98		-1623.28
46 H	6-19-86		-8045.98		-1623.28
47 E	6-19-86		-8045.98		-1623.28
48 E	6-19-86		-8045.98		-1623.28
49 F	6-19-86		-8045.98		-1623.28
50 F	6-19-86		-8045.98		-1623.28
51 F	6-19-86		-8045.98		-1623.28
52 G	6-19-86		-8045.98		-1623.28
56 G	6-19-86		-8045.98		-1623.28
61 F	6-19-86		-8045.98		-1623.28
62 F	6-19-86		-8045.98		-1623.28
103 F	6-19-86		-8045.98		-1623.28
104 F	6-19-86		-8045.98		-1623.28
105 F	6-19-86		-8045.98		-1623.28
109 J	6-19-86		-8045.98		-1623.28
113 E	6-19-86		-8045.98		-1623.28
114 F	6-19-86		-8045.98		-1623.28
115 G	6-19-86		-8045.98		-1623.28

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
116 G	6-19-86		-8045.98		-1623.28
117 G	6-19-86		-8045.98		-1623.28
121 H	6-19-86		-8045.98		-1623.28
122 H	6-19-86		-8045.98		-1623.28
123 H	6-19-86		-8045.98		-1623.28
124 H	6-19-86		-8045.98		-1623.28
125 H	6-19-86		-8045.98		-1623.28
127 D	6-19-86		-8045.98		-1623.28
139 C	6-19-86		-8045.98		-1623.28
140 E	6-19-86		-8045.98		-1623.28
141 E	6-19-86		-8045.98		-1623.28
142 E	6-19-86		-8045.98		-1623.28
143 E	6-19-86		-8045.98		-1623.28
144 E	6-19-86		-8045.98		-1623.28
145 E	6-19-86		-8045.98		-1623.28
146 C	6-19-86		-8045.98		-1623.28
147 B	6-19-86		-8045.98		-1623.28
148 B	6-19-86		-8045.98		-1623.28
149 D	6-19-86		-8045.98		-1623.28
152 B	6-19-86		-8045.98		-1623.28
153 B	6-19-86		-8045.98		-1623.28
154 B	6-19-86		-8045.98		-1623.28
155 B	6-19-86		-8045.98		-1623.28
156 B	6-19-86		-8045.98		-1623.28
157 B	6-19-86		-8045.98		-1623.28
158 B	6-19-86	6.40	-8039.58		-1616.88
159 C	6-19-86		-8039.58		-1616.88
159 D	6-19-86		-8039.58		-1616.88
160 B	6-19-86		-8039.58		-1616.88
161 B	6-19-86		-8039.58		-1616.88
162 B	6-19-86		-8039.58		-1616.88
163 B	6-19-86		-8039.58		-1616.88
164 B	6-19-86		-8039.58		-1616.88
165 B	6-19-86		-8039.58		-1616.88
166 B	6-19-86		-8039.58		-1616.88
180 A	6-19-86	6.40	-8033.18		-1610.48
181 A	6-19-86	6.40	-8026.78		-1604.08
189 D	6-19-86		-8026.78		-1604.08
190 D	6-19-86		-8026.78		-1604.08
191 A	6-19-86		-8026.78		-1604.08
192 A	6-19-86		-8026.78		-1604.08
193 A	6-19-86		-8026.78		-1604.08
194 A	6-19-86		-8026.78		-1604.08
217 C	6-19-86	-0.53	-8027.31		-1604.61
221 C	6-19-86	-1.27	-8028.58		-1605.88
222 D	6-19-86	-1.27	-8029.85		-1607.15
224 B	6-19-86	-1.27	-8031.12		-1608.42
263	6-19-86	6.40	-8024.72		-1602.02
264	6-19-86	6.40	-8018.32		-1595.62

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
270	6-19-86	280.09	-7738.23		-1315.53
271	6-19-86	280.09	-7458.14		-1035.44
273	6-19-86	2.80	-7455.34		-1032.64
274	6-19-86	2.80	-7452.54		-1029.84
275	6-19-86	2.80	-7449.74		-1027.04
276	6-19-86	2.80	-7446.94		-1024.24
277	6-19-86	2.80	-7444.14		-1021.44
278	6-19-86	24.35	-7419.79		-997.09
279	6-19-86	24.35	-7395.44		-972.74
280	6-19-86	24.35	-7371.09		-948.39
281	6-19-86	24.35	-7346.74		-924.04
132 X	6-19-86	-0.83	-7347.57		-924.87
133 X	6-19-86	-0.83	-7348.40		-925.70
223 X	6-19-86	-4.40	-7352.80		-930.10
244 X	6-19-86	-4.32	-7357.12		-934.42
245 X	6-19-86	-4.32	-7361.44		-938.74
246 X	6-19-86	-0.60	-7362.04		-939.34
247 X	6-19-86	-0.60	-7362.64		-939.94
248 X	6-19-86	-0.30	-7362.94		-940.24
250 X	6-19-86	-0.60	-7363.54		-940.84
251 X	6-19-86	-0.60	-7364.14		-941.44
324 D	6-23-86	6.28	-7357.86		-935.16
335 E	6-23-86	-6.28	-7364.14		-941.44
340 D	6-23-86	3.14	-7361.00		-938.30
341 D	6-23-86	12.56	-7348.44		-925.74
302 D	6-26-86	6.28	-7342.16		-919.46
303 F	6-26-86		-7342.16		-919.46
305 D	6-26-86	6.28	-7335.88		-913.18
306 D	6-26-86	12.56	-7323.32		-900.62
241 I	8-1-86	8.96	-7314.36		-891.66
140 F	8-1-86	8.96	-7305.40		-882.70
141 F	8-1-86	8.96	-7296.44		-873.74
142 F	8-1-86	8.96	-7287.48		-864.78
143 F	8-1-86	8.96	-7278.52		-855.82
144 F	8-1-86	8.96	-7269.56		-846.86
145 F	8-1-86	8.96	-7260.60		-837.90
341 E	8-1-86	63.90	-7196.70		-774.00
361 A	9-16-86	-51.20	-7247.90		-825.20
445	9-24-86		-7247.90		-825.20
447	10-10-86		-7247.90		-825.20
448	10-10-86		-7247.90		-825.20
449	10-10-86		-7247.90		-825.20
450	10-10-86		-7247.90		-825.20
6 F	11-25-86		-7247.90		-825.20
16 C	11-25-86		-7247.90		-825.20
302 E	2-2-87		-7247.90		-825.20
303 G	2-2-87		-7247.90		-825.20
305 E	2-2-87		-7247.90		-825.20
306 E	2-2-87		-7247.90		-825.20

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #		DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
385	H	2-2-87		-7247.90		-825.20
150	B	4-8-87		-7247.90		-825.20
46	I	5-22-87	8.96	-7238.94		-816.24
47	G	5-22-87	8.96	-7229.98		-807.28
48	G	5-22-87	8.96	-7221.02		-798.32
52	H	5-22-87	8.96	-7212.06		-789.36
56	H	5-22-87	8.96	-7203.10		-780.40
1	B	9-29-87	5.01	-7198.09		-775.39
2	G	9-29-87	4.25	-7193.84		-771.14
3	C	9-29-87	4.18	-7189.66		-766.96
4	C	9-29-87	4.25	-7185.41		-762.71
6	B	9-29-87	4.25	-7181.16		-758.46
7	F	9-29-87	4.18	-7176.98		-754.28
8	C	9-29-87	4.25	-7172.73		-750.03
9	C	9-29-87	4.25	-7168.48		-745.78
12	E	9-29-87	4.18	-7164.30		-741.60
13	D	9-29-87	4.25	-7160.05		-737.35
14	E	9-29-87	4.18	-7155.87		-733.17
15	F	9-29-87	4.18	-7151.69		-728.99
16	D	9-29-87	4.25	-7147.44		-724.74
17	H	9-29-87	8.96	-7138.48		-715.78
18	I	9-29-87	8.96	-7129.52		-706.82
19	F	9-29-87	8.96	-7120.56		-697.86
20	F	9-29-87	8.96	-7111.60		-688.90
21	F	9-29-87	8.96	-7102.64		-679.94
22	F	9-29-87	8.96	-7093.68		-670.98
23	F	9-29-87	8.96	-7084.72		-662.02
25	H	9-29-87	8.96	-7075.76		-653.06
29	C	9-29-87	4.25	-7071.51		-648.81
37	J	9-29-87	8.96	-7062.55		-639.85
38	K	9-29-87	8.96	-7053.59		-630.89
39	G	9-29-87	8.96	-7044.63		-621.93
40	G	9-29-87	8.96	-7035.67		-612.97
41	J	9-29-87	8.96	-7026.71		-604.01
42	F	9-29-87	8.96	-7017.75		-595.05
43	F	9-29-87	8.96	-7008.79		-586.09
44	F	9-29-87	8.96	-6999.83		-577.13
45	F	9-29-87	8.96	-6990.87		-568.17
49	G	9-29-87	8.96	-6981.91		-559.21
50	G	9-29-87	8.96	-6972.95		-550.25
51	G	9-29-87	8.96	-6963.99		-541.29
53	F	9-29-87	4.25	-6959.74		-537.04
54	C	9-29-87	4.25	-6955.49		-532.79
55	F	9-29-87	4.25	-6951.24		-528.54
57	E	9-29-87	4.25	-6946.99		-524.29
61	G	9-29-87	8.96	-6938.03		-515.33
62	G	9-29-87	8.96	-6929.07		-506.37
63	F	9-29-87	4.25	-6924.82		-502.12
103	G	9-29-87	8.96	-6915.86		-493.16

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
104 G	9-29-87	8.96	-6906.90		-484.20
105 G	9-29-87	8.96	-6897.94		-475.24
109 K	9-29-87	8.96	-6888.98		-466.28
113 F	9-29-87	8.96	-6880.02		-457.32
114 G	9-29-87	8.96	-6871.06		-448.36
115 H	9-29-87	8.96	-6862.10		-439.40
116 H	9-29-87	8.96	-6853.14		-430.44
117 H	9-29-87	8.96	-6844.18		-421.48
121 I	9-29-87	8.96	-6835.22		-412.52
122 I	9-29-87	8.96	-6826.26		-403.56
123 I	9-29-87	8.96	-6817.30		-394.60
124 I	9-29-87	8.96	-6808.34		-385.64
125 I	9-29-87	8.96	-6799.38		-376.68
127 F	9-29-87	8.96	-6790.42		-367.72
128 E	9-29-87	8.96	-6781.46		-358.76
129 E	9-29-87	8.96	-6772.50		-349.80
139 E	9-29-87	8.96	-6763.54		-340.84
146 F	9-29-87	8.96	-6754.58		-331.88
147 D	9-29-87	8.96	-6745.62		-322.92
148 D	9-29-87	8.96	-6736.66		-313.96
149 E	9-29-87	8.96	-6727.70		-305.00
152 C	9-29-87	8.96	-6718.74		-296.04
153 C	9-29-87	8.96	-6709.78		-287.08
154 C	9-29-87	8.96	-6700.82		-278.12
155 C	9-29-87	8.96	-6691.86		-269.16
156 C	9-29-87	8.96	-6682.90		-260.20
157 C	9-29-87	8.96	-6673.94		-251.24
158 C	9-29-87	8.96	-6664.98		-242.28
159 E	9-29-87	8.96	-6656.02		-233.32
160 C	9-29-87	8.96	-6647.06		-224.36
161 C	9-29-87	8.96	-6638.10		-215.40
162 C	9-29-87	8.96	-6629.14		-206.44
163 C	9-29-87	8.96	-6620.18		-197.48
164 C	9-29-87	8.96	-6611.22		-188.52
165 C	9-29-87	8.96	-6602.26		-179.56
166 C	9-29-87	8.96	-6593.30		-170.60
180 B	9-29-87	8.96	-6584.34		-161.64
181 B	9-29-87	8.96	-6575.38		-152.68
189 E	9-29-87	8.96	-6566.42		-143.72
190 E	9-29-87	8.96	-6557.46		-134.76
191 C	9-29-87	9.52	-6547.94		-125.24
192 C	9-29-87	9.52	-6538.42		-115.72
193 C	9-29-87	9.52	-6528.90		-106.20
194 C	9-29-87	9.52	-6519.38		-96.68
211 D	9-29-87	4.18	-6515.20		-92.50
217 D	9-29-87	4.92	-6510.28		-87.58
221 D	9-29-87	4.86	-6505.42		-82.72
222 E	9-29-87	4.86	-6500.56		-77.86
224 D	9-29-87	4.86	-6495.70		-73.00

CHEVRON HYDROCARBON OFFSETS CENTRAL SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
263 A	9-29-87	8.96	-6486.74		-64.04
264 A	9-29-87	8.96	-6477.78		-55.08
265 A	9-29-87	4.38	-6473.40		-50.70
266 A	9-29-87	4.38	-6469.02		-46.32
267 A	9-29-87	4.38	-6464.64		-41.94
268 A	9-29-87	4.38	-6460.26		-37.56
269 A	9-29-87	4.38	-6455.88		-33.18
273 A	9-29-87	4.27	-6451.61		-28.91
274 A	9-29-87	4.27	-6447.34		-24.64
275 A	9-29-87	4.27	-6443.07		-20.37
276 A	9-29-87	4.27	-6438.80		-16.10
277 A	9-29-87	4.27	-6434.53		-11.83
24 J	11-4-87		-6434.53		-11.83
Sum of credits reset to zero:				-6422.70	

Chevron U.S.A.
VOC Offsets

PERMITS

CENTRAL SOURCE

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008302A
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-2-9 serving the
following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115
52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81, and 105.

SEE ATTACHED SHEET

Location:

Sec. 9, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be
made after an inspection to determine if the equipment has been constructed in accordance
with the approved plans and specifications and if the equipment can be operated in com-
pliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of
equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations
of other governmental agencies which are applicable to the equipment to be constructed.
For example, prior clearance must be obtained from the State Department of Industrial
Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years
from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008302A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-2-9 serving the following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115, 52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81 and 105, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By

A handwritten signature in black ink, appearing to read "T. Faxson", is written over a horizontal line.

Thomas Faxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008303A

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-1-9 serving the following wells 125, 126, 127, 54, 119, 120, 53, 63B, 131, 64, 132, 63A, 111, 62D, 63, 62A, 73, 73A, 121, 128, 73B, 74, 129, 130, 83A, 83B, 116, 122, 123, 72B, 72C, 82A, 112, 107, 72, 72A, 71B, 82, 103, 71C, 104, 81C, 108, 109, and 4 proposed wells.

SEE ATTACHED SHEET

Location:

Sec. 9 T29S R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008303A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system, #CC-1-9, serving the following wells 125, 126, 127, 54, 119, 120, 53, 63B, 131, 64, 132, 63A, 111, 62D, 63, 62A, 73, 73A, 121, 128, 73B, 74, 129, 130, 83A, 83B, 116, 122, 123, 72B, 72C, 82A, 112, 107, 72, 72A, 71B, 82, 103, 71C, 104, 81C, 108, 109 and 4 proposed wells, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator.
- d. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. If hydrocarbon vapor combustion source is not available, well vent vapors shall not be vented to atmosphere.

By 

Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008305A

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #3-CC-1 serving the following wells #259, 2,4,6, and nine (9) proposed wells, including the following:

SEE ATTACHED SHEET

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80



4008305A

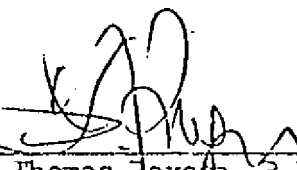
EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #3-CC-1 serving the following wells #259, 2, 4, 6, and nine (9) proposed wells including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAFCO approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By


Thomas Haxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008306A
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #3-CC-2 serving the following wells #223, 26-11, 247, 255, 254, 253, 244, 235, 227, 251, 252, 242, 233, 250, 249, 232, and ten (10) proposed wells

SEE ATTACHED SHEET

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By:

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



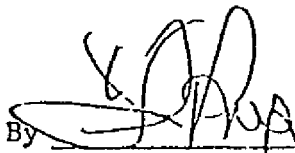
4008306A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #3-CC-2 serving the following wells #223, 26-11, 247, 255, 254, 253, 244, 235, 227, 251, 252, 242, 233, 250, 249, 232, and ten (10) proposed wells, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Faxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008308A

Date: October 6, 1978

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of October 25, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One Well Head Casing Vapor Collection System #CI-4-3 serving the following wells, 16-1, 16-9, 16-10, 17-1, 17-10, 18-2, 18-4, 18-7, 18-9, 19-1, 19-10, 20-2, 20-4, 21-5, 22-4, 23-3, 191, 198, 200, 202, 205, 207, 209, including the following: Z10, Z12, Z13, Z15, Z17, Z19, Z20, Z21, Z22, Z24, & Z26

SEE ATTACHED SHEET

DS
4 DEC 78

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 10-25-78 to 10-25-80

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008308A

EQUIPMENT DESCRIPTION: One Well Head Casing Vapor Collection System #CF-4-3 serving the following wells, 16-1, 16-9, 16-10, 17-1, 17-10, 18-2, 18-4, 18-7, 18-9, 19-1, 19-10, 20-2, 20-4, 21-5, 22-4, 23-3, 191, 198, 200, 202, 205, 207, 209, including the following equipment and design specifications:

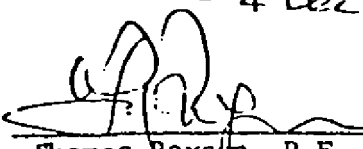
- a. Production well vent vapor collection piping network,
- b. One gas/liquid separator with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 60 days after startup of steam generator(s) associated with project,
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 60 days after startup of steam generator(s) associated with project.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations,
6. Authority to Construct #4008308 is hereby cancelled.

Caution: Future modifications require authority to construct.

* 4008308A includes above and : 210, 212, 213, 215, 217, 219, 220, 221, 222, 224, & 226 JS 4 Dec 78

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008310A
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One Well Head Casing Vapor Recovery System #CC-3-3 serving the following wells 67, 3-6, 77, 118, 4-8, 5-8, 6-9, 105, 4-9, 106, 4-10, 119, 130, 131, 144 and 156.

SEE ATTACHED SHEET

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

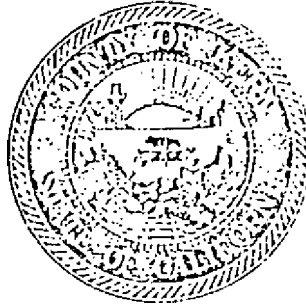
By:

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008310A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-3-3 serving the following wells 67, 3-6, 77, 118, 4-8, 5-8, 6-9, 105, 4-9, 106, 4-10, 119, 130, 131, 144 and 156, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Faxon, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008311

Date: October 21, 1976

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 18, 1977

TO:

Legal Owner
or Operator:

Chevron U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3692 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.

For Period: 4-18-77 to 4-18-79

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 661-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008311

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from ²⁸~~fourteen~~ crude oil production well casing head vents (well 3-19 is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control, and stainless steel mist extractor.

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

KERN COUNTY AIR POLLUTION CONTROL DISTRICT
P. O. Box 997, 1700 Flower Street
Bakersfield, California 93302

APPLICATION FOR (Check appropriate items):

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

1. PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

CHEVRON USA, INC.

2. MAILING ADDRESS:

575 Market Street, San Francisco, CA

Zip Code: 94105

3. ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Sec. 3, T. 29S., R. 28E.

4. GENERAL NATURE OF BUSINESS:

Oil production

5. EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

Casing collection system serving 28 wells
(CT-5-3) (Drawing NE-2195)

(Continue on additional 8½ x 11 page if space above is insufficient.)

6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Collection System & Tank \$109,000

7. TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

8. SIGNATURE OF APPLICANT:



OFFICIAL TITLE OF SIGNER

Staff Contract Advisor

9. TYPE OR PRINT NAME OF SIGNER

NAME: HENRY P. LYNCH

DATE: 4/19/78

(805)
PHONE NO. 393-1312

Validation (A.P.C.D. use only)

Date Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$ 20 / 320

RECEIPT NO. 557567

DATE: 19 Apr 78

PERMIT FEE: \$

RECEIPT NO.

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008313A
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system CC-1-5 serving the following wells 3-8A, 5-8A, 3-10, 5-10A, 1-10, 1-11A, 3-11A, 3-13A, 1-13, 1-1A, 3-1A, 1-3A, 116, 105, 5-5A, 159, 121, 92, 9-7A, 96, 132, 120, 5-1A, 119, 5-13, 5-11A, 7-13A, 7-11A, 7-10A, 8-10, 158, 180, 126, 9-1A, 11-1A, 10-13, 8-13A, 8-11A, 9-11, 9-10A, 13-5A, 13-3A, 13-1A, 15-5A, 15-3A, 161, 11-13A, 11-11A, 13-13, 13-11B, 11-10, 13-10, 13-9, 13-7, and 13-6. SEE ATTACHED SHEET

Location:

Sec. 5, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

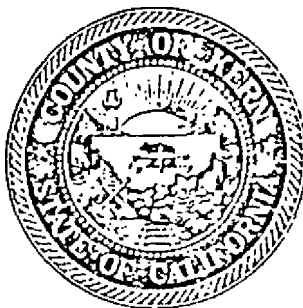
By: [Signature]

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008313A

One well head casing vapor recovery system CC-1-5 serving the
EQUIPMENT DESCRIPTION: following wells 3-8A, 5-8A, 3-10, 5-10A, 1-10, 1-11, 3-11A, 3-13A,
1-13, 1-1A, 3-1A, 1-3A, 116, 105, 5-5A, 159, 121, 92, 9-7A, 96, 132, 120, 5-1A, 119, 5-13,
5-11A, 7-13A, 7-11A, 7-10A, 8-10, 158, 180, 126, 9-1A, 11-1A, 10-13, 8-13A, 8-11A, 9-11,
9-10A, 13-5A, 13-3A, 13-1A, 15-5A, 15-3A, 161, 11-13A, 11-11A, 13-13, 13-11B, 11-10, 13-10,
13-9, 13-7, and 13-6

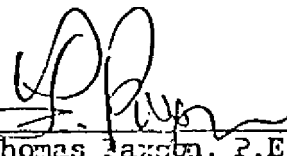
- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

991, 1700 Flower Street
Baldwin, California 93302

<input checked="" type="checkbox"/>	AUTHORITY TO CONSTRUCT
<input checked="" type="checkbox"/>	PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A., Inc.

MAILING ADDRESS:

575 Market Street, San Francisco, CA

Zip Code: 94105

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 5, T.29S., R.28E.

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

KCAPCD # 4008313A (CC-1-5) Casing Collection System
Add 3 wells (Wells 112, AHO 11-12, 128) (Drawing ND-518-1)

(Continue on additional 8½ x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$7,500 for 3 wells

SIGNATURE OF APPLICANT:

ORIGINAL SIGNED

C. N. SEGNAR

OFFICIAL TITLE OF SIGNER

General Manager, Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. SEGNAR

DATE: Aug. 24, 1978 PHONE NO. (415) 894-2851

Validation (A.P.C.D. use only)

Application Received:

FILE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

X
X

AUTHORITY TO CONSTRUCT
PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual, Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A., Inc. Production, Western Region

MAILING ADDRESS:

P. O. Box 5545, Oildale, CA

Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 5, T.29S., R.28E.

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

KCAPCD # 4008313A (CC-1-5) Casing Collection System

Add 3 wells (115, 138, 3-6) to existing system (Drawing #ND-518-4).

Total 61 Wells

Monte Cristo #1 Wells: 1-1A, 1-3A, 3-1A, 3-6, 5-1A, 5-5A, 9-1A, 9-3A, 9-7A, 11-1A, 13-1A, 13-3A, 13-5A, 15-3A, 15-5A, 92, 96, 105, 112, 115, 116, 119, 120, 121, 126, 128, 138, 158, 159, 161, 180,

American Naptha Wells: 1-10, 1-11A, 1-13, 3-8A, 3-10A, 3-11A, 3-13A, 5-8A, 5-10A, 5-11A, 5-13, 7-10A, 7-11A, 7-13A, 8-10, 8-11A, 8-13A, 9-10A, 9-11A, 10-13, 11-10, 11-11A, 11-12, 11-13A, 13-6, 13-7, 13-9, 13-10A, 13-11B, and 13-13.

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

SIGNATURE OF APPLICANT:

\$7,500 for 3 wells

OFFICIAL TITLE OF SIGNER

General Manager, Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. Segnar

DATE: 12/19/78

PHONE NO (415) 894-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008315

Date: October 21, 1976

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 18, 1977

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 5, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.

For Period: 4-18-77 to 4-18-79

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008315

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from twelve crude oil production well casing head vents (well 79 is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control, and stainless steel mist extractor.

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

Corcoran, California 93302

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A. Inc.

MAILING ADDRESS:

575 Market, San Francisco, CA

Zip Code: 94105

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Sec. 5, T.29S, R.28E

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

KCAPCD # 4008315 (CT-3-5) Casing Collection System
Add 1 (one) well to existing system (Well 136)
Drawing (HD-518-1)

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$2,500 to add well

SIGNATURE OF APPLICANT:

OFFICIAL TITLE OF SIGNER

General Manager Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. Segnar

DATE: Aug. 24, 1978 PHONE NO. (415)894-3025

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

O. Box 997, 1700 Flower Street
Bakersfield, California 93302

<input checked="" type="checkbox"/>	AUTHORITY TO CONSTRUCT
<input checked="" type="checkbox"/>	PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

CHEVRON U.S.A., INC. PRODUCTION, WESTERN REGION

MAILING ADDRESS:

P. O. Box 5545, Oildale, CA

Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 5, T.29S., R.28E

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

KCARPCD # 4008315 (CT-3-5) Casing Collection System
Add 2 wells (2-5 & 84) to existing system (Drawing # ND-518-4)

Total 15 Wells

1-5A, 2-5, 3-11A, 3-13A, 77, 78, 79, 82, 84, 86, 107, 114, 117, 118 & 136.

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$5,000 for 2 wells

SIGNATURE OF APPLICANT:

OFFICIAL TITLE OF SIGNER

General Manager, Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. H. Segnar

DATE: 12/19/78

PHONE NO. (415) 894-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.



Application No.: 4008316

Date: October 21, 1976

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 18, 1977

TO:

Legal Owner
or Operator:

Chevron U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 5, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.

For Period: 4-18-77 to 4-18-79

1700 Flower Street
P. O. Box 937
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008316

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from twenty-seven crude oil production well casing head vents (well 95 is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control, and stainless steel mist extractor.

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

KERN COUNTY AIR POLLUTION CONTROL DISTRICT
P. O. Box 997, 1700 Flower Street
Bakersfield, California 93302

APPLICATION FOR (Check appropriate items):

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

1. PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:
CHEVRON USA, INC.

2. MAILING ADDRESS:

575 Market Street, San Francisco, CA

Zip Code: 94105

3. ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Sec. 5, T. 29S., R. 28E.

4. GENERAL NATURE OF BUSINESS:

Oil production

5. EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

Casing collection system serving 28 wells
(CI-2-5) (Drawing ND-518)

(Continue on additional 8½ x 11 page if space above is insufficient.)

6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Collection System & Tank \$110,000

7. TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

8. SIGNATURE OF APPLICANT:



OFFICIAL TITLE OF SIGNER

Staff Contract Advisor

9. TYPE OR PRINT NAME OF SIGNER

NAME: HENRY P. LYNCH

DATE: 4/19/78

PHONE NO. (805) 393-1312

Validation (A.P.C.D. use only)

Date Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$ 20

RECEIPT NO. 357567

320

DATE: 19 Apr 78

PERMIT FEE: \$

RECEIPT NO.

P. O. Box 997, 1700 Flower Street
Bakersfield, California 93302

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

1. PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A., Inc.

2. MAILING ADDRESS:

575 Market Street, San Francisco, CA

Zip Code: 94105

3. ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 5, T.29S., R.28E.

4. GENERAL NATURE OF BUSINESS:

Energy

5. EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

KCAPCD # 4008316 (TT-2-5) Casing Collection System
Add 2 wells to existing system (wells 108 & 140) (Drawing # ND-513-1)

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

7. TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$5,000 to add 2 wells

SIGNATURE OF APPLICANT:



OFFICIAL TITLE OF SIGNER

General Manager, Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. SEGNAE

DATE: August 24, 1973 PHONE NO. (415) 864-2871

Validation (A.P.C.D. use only)

Date Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

O. Box 997, 1700 Flower Street
Bakersfield, California 93302

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual
Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A. Inc., Production, Western Region

MAILING ADDRESS:

P. O. Box 5545, Oildale, CA

Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 5, T.29S., R.28E.

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code
and the Rules and Regulations of the Kern County Air Pollution Control District,
application is hereby made for the following equipment:

KCAPCD # 4008316 (CT-2-5) Casing Collection System
Add 1 well (148) to existing system (Drawing #ND-518-4)

Total 31 Wells

5-11A, 7-9A, 9-11A, 11-11A, 13-7A, 13-9A, 15-7A, 15-11A, 15-13A,
88, 89, 91, 94, 95, 98, 99, 108, 133, 134, 140, 145, 146, 148, 149,
151, 152, 153, 155, 164, 168 and 170.

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$2,500 for 1 well

SIGNATURE OF APPLICANT:

OFFICIAL TITLE OF SIGNER

General Manager, Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. Segnar

DATE: 12/19/78

PHONE NO. (415)894-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

1700 Flower Street
P. O. Box 997
Lakersfield, California 93302
Telephone (805) 861-3682

AIR POLLUTION CONTROL DISTRICT

LÉON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008322

Date: June 6, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of September 14, 1977

TO:

Legal Owner
or Operator:

Chevron U.S.A., Inc.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed:

Equipment
Description
and
Conditions:

One Crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 4., T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 9-14-77 to 9-14-79



4008322

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from twenty-one crude oil production well casing head vents,
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control and stainless steel mist extractor (tank no. 2).

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point at which visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By 

Thomas Paxson, P.E.
Air Sanitation Engineer II



Chevron U.S.A. Inc.
575 Market Street, San Francisco, CA 94105
Mail Address: P.O. Box 7643, San Francisco, CA 94120

September 7, 1978

C. N. Segnar
General Manager
Production Department
Western Region

Kern County APCD Permits
To Construct
Casing Collection Systems
Kern River Field

Leon M. Hebertson, M.D.
Kern County Air Pollution Control District
1700 Flower Street
P. O. Box 997
Bakersfield, CA 93302

Dear Sir:

We wish to modify our present casing collection system permits for Section 4, T.29S., R.28E., Kern River Field. We now have three permits:

1. APCD #4008321 for 7 wells
Equipment Number CT-1-4
2. APCD #4008322 for 21 wells
Equipment Number CT-2-4
3. APCD #4008323 for 40 wells
Equipment Number CT-3-4

We request that the above permits be changed as follows:

1. APCD #4008321 - Delete
2. APCD #4008322 - Reapply for 31 wells and designate as CT-2-4
3. APCD #4008323 - Retain permit for 40 wells but designate as CT-1-4

One tank (#4008321) has been eliminated; its seven wells plus three additional wells are tied into CT-2-4 (#4008322).

Attached is a new application to replace APCD #4008322, a check of \$20 for application fees, and drawing number ND-495 showing subject casing collection systems.

Leon M. Hebertson, M.D.

Page 2

September 7, 1978

Contact Mr. C. V. Peterson (415) 894-3025 or Mr. D. A. Busing (415) 894-3547
if you need additional information.

Very truly yours,

Original Signed By /
C. N. SEGNER / TDC

Enclosures

bcc: Messrs. J. L. Rowland
H. P. Lynch
A. A. Dulan
D. A. Busing ✓

O. Box 997, 1700 Flower Street
Korsfield, California 93302

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

CHEVRON U.S.A. INC., PRODUCTION DEPARTMENT, WESTERN REGION

HAILING ADDRESS:

P. O. BOX 5595, OILDALE, CALIFORNIA 93308

Zip Code:

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

SECTION 4, T.29S., R.28E.

GENERAL NATURE OF BUSINESS:

ENERGY

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

(1) Casing Collection System serving 31 wells.

Tank Setting only - CT-2-4.

See Drawing ND-495-3.

Well Nos. 1-16, 1-18A, 1-20 A, 1-29A, 3-22A, 3-32A, 5-32A, 6-30, 85, 89, 90, 95, 101, 102, 110, 113, 114, 115, 116, 117, 119, 122, 124, 126, 128, 129, 107, 168, 201, 219, 234.

167

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Existing

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

SIGNATURE OF APPLICANT:

C.N. Segnar

OFFICIAL TITLE OF SIGNER

GENERAL MANAGER, PRODUCTION

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. SEGJAR

DATE: Sept. 7, 1978 PHONE NO. (415) 894-2163

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.



Application No.: 4008323

Date: June 6, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of September 14, 1977

TO:

Legal Owner
or Operator:

Chevron U.S.A., Inc.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons
collection/condensation system, including the following equipment
and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 4, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 9-14-77 to 9-14-79

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008323

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from forty crude oil production well casing head vents,
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control and stainless steel mist extractor (tank No. 3).

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point at which visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer II

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682



Application No.: 4008325

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-3-31 serving the following wells 4-1, 6-1, 6-3, 5-3A, 3-3, 5-5A, 6-5, 6-6A, 5-6A, 5-8, 6-8A, 7-6A, 8-8, 9-8, 9-6, 11-8, 10-6B, 11-5, 13-5, 13-3, 11-3, 11-1A, 13-1A, 9-5, 7-5, 9-3, 7-3, 7-1B, 9-1A

SEE ATTACHED SHEET

Location:

Sec. 31, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

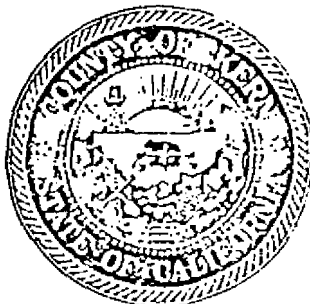
It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By:

For Period: 2-28-78 to 2-28-80



4008325

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-3-31 serving the following wells, 4-1, 6-1, 6-3, 5-3A, 3-3, 5-5A, 6-5, 6-6A, 5-6A, 5-8, 6-8A, 7-6A, 8-8, 9-8, 9-6, 11-8, 10-6B, 11-5, 13-5, 13-3, 11-3, 11-1A, 13-1A, 9-5, 7-5, 9-3, 7-3, 7-1, 9-1A, including the following equipment and design specifications:


- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Parsch, P.E.
Air Sanitation Engineer III



Application No.: 4008326

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-2-31 serving the following wells 1-8A, 3-6A, 3-5, 1-5A, and 1-6A

SEE ATTACHED SHEET

Location:

Sec. 31, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

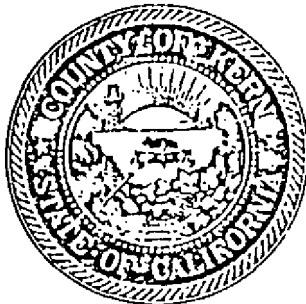
It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80



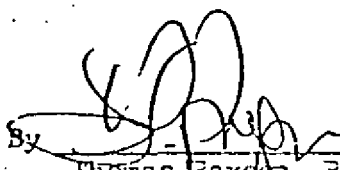
4008326

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-2-31 serving the following wells 1-8A, 3-6A, 3-5, 1-5A, and 1-6A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger;
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Frazee, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008327
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-1-31 serving the following wells 1-1A, 1-3A, and 3-1A, including the following:

SEE ATTACHED SHEET

Location:

Sec. 31, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231



4008327

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-31 serving the following wells 1-1A, 1-3A, and 3-1A, including the following equipment and design specifications:


- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Parsons, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Kern County, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008328

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-2-32 serving the following wells 1-10, 1-9A, 1-7A, 3-7A, and 3-5A, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231




4008323

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-2-32 serving the following wells 1-10, 1-9A, 1-7A, 3-7A, and 3-5A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

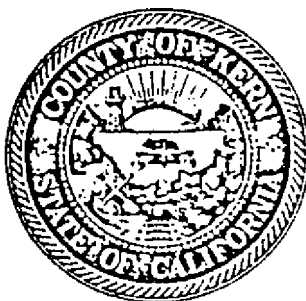
1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Farson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Lakersfield, California 93301
Phone (806) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008328A

Date: July 2, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 22, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modify W,S Scrubber on experimental basis, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson, P.E. at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 8-22-79 to 8-22-81

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

01 "H" Street, Suite 250
Arvin, California 93301
• (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008328A

EQUIPMENT DESCRIPTION: Modify H₂S scrubber on experimental basis, including the following equipment and design specifications:

Modify H₂S scrubber (installed per Chevron Dwg No. ND562-3) in accord with flow charts (Systems Nos 1, 2 & 3) that accompanied May 24, 1979 letter from Chevron to KCAPCD. Scrubber is installed on line that vents well Nos. 1-7A, 1-9A, 1-10, 3-5A and 3-7A.

SPECIAL CONDITIONS:

Notify KCAPCD before tests are being conducted.

By

A handwritten signature in black ink, appearing to read "Thomas Paxson", is written over a horizontal line.

Thomas Paxson P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008328B

Date: April 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 22, 1979

TO:

CHEVRON U.S.A., INC.

Legal Owner
or Operator:

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Installation of H₂S scrubber on oil well vent system

SEE ATTACHED SHEET

Equipment
description
and
Conditions:

Sec. 32, T28S, R28E

Location:

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

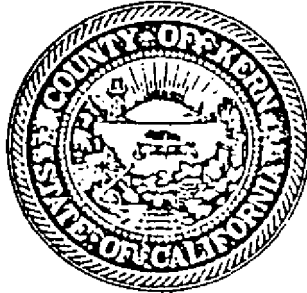
By:

For Period: 8-22-79 to 8-22-81

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "M" Street, Suite 250
Arvin, California 93301
Phone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008328B

EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 1-7A, 1-9A, 1-10, 3-5A and 3-7A.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND 562-3
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND562-3
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND562-3

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HERBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008329

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-3-32 serving the following wells, 3-1A, 5-1A, 7-1A, 6-3, 5-3A, and 4-2

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Herbertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329


EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-3-32 serving the following wells, 3-1A, 5-1A, 7-1A, 6-3, 5-3A and 4-2, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 350
Bakersfield, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008329A

Date: April 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 22, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Installation of H₂S Scrubber on Oil Well Vent System

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: [Signature]

For Period: 8-22-79 to 8-22-81

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Artesia, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008329A

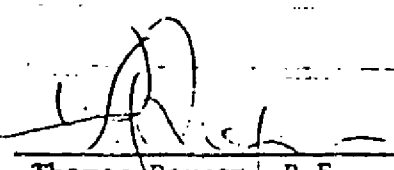
EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent systems, including the following equipment and design specifications:

1. Vent line venting well No.s 1-1A, 1-3A, 1-5A and 41.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND561-1
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND561-1
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND561-1

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Kernfield, California 93302
Telephone (805) 861-3682

LEON M. HERBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008330

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-1-32 serving the following wells 1-3A, 1-1A, 41 and 1-5A, including the following:

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Herbertson, M.D.,
Air Pollution Control Officer

By 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Kernersfield, California 93302
Telephone (805) 851-2231




4008330

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-1-32 serving the following wells, 1-3A, 1-1A, 41 and 1-5A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

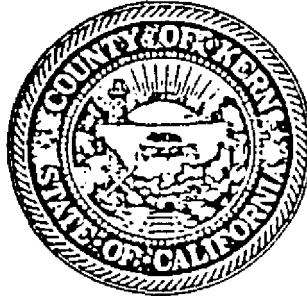
1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Arroyo Grande, California 93301
(805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008330A

Date: April 17, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 22, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Installation of H₂S scrubber on oil well vent system

SEE ATTACHED SHEET

Location:

Sec. 32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson, P.E. at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 8-22-79 to 8-22-81

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008330A


EQUIPMENT DESCRIPTION: Installation of H₂S scrubber on oil well vent system, including the following equipment and design specifications:

1. Vent line venting well No.s 31A, 3-3A, 5-1A, 5-3A, 6-3 and 7-1A.
2. Komax Motionless Mixer, Model X030-040-1-006-33 installed per Chevron Dwg. No. ND 563-2.
3. Chemical tank, Chemical pump and Chemical injection line into vent line installed per Chevron Dwg. No. ND 563-2.
4. Fresh water injection line into vent line installed per Chevron Dwg. No. ND563-2

SPECIAL CONDITIONS:

1. Applicant shall provide KCAPCD with result of source tests for H₂S emissions from scrubber, to verify compliance with KCAPCD Rule 407 before Permit to Operate will be approved.
2. Source tests on scrubber shall be repeated as directed by KCAPCD until consistent performance by scrubber is assured.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephones (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008331
Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-4-32 serving the following wells 3-9A, 27, 5-9A, 5-7A, 7-9A, 7-7A, 7-5A, and 5-5A

SEE ATTACHED SHEET

Location:

Sec.32, T28S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Phone (805) 861-2231



4008331

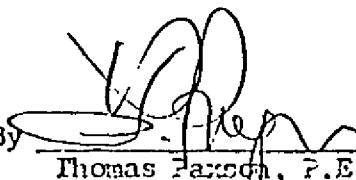
EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-4-32 serving the following wells 3-9A, 27, 5-9A, 5-7A, 7-9A, 7-7A, 7-5A, and 5-5A including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By


Thomas Parsons, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008333

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CT-1-3 serving the following
wells 143, 142, 9-8, 7-7, 7-5, 153, 10-5, 139, 164, 138, 12-4, 163,
150, 12-2, 175, 185, and 16-5

SEE ATTACHED SHEET

Location:

Sec. 3, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be
made after an inspection to determine if the equipment has been constructed in accordance
with the approved plans and specifications and if the equipment can be operated in com-
pliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of
equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations
of other governmental agencies which are applicable to the equipment to be constructed.
For example, prior clearance must be obtained from the State Department of Industrial
Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years
from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Phone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer




4008333

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CT-1-3 serving the following wells 143, 142, 9-8, 7-7, 7-5, 153, 10-5, 139, 164, 138, 12-4, 163, 150, 12-2, 175, 185 and 16-5, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One vapor condenser(s) with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 15%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

**Chevron U.S.A.
VOC Offsets**

SOURCE TEST RESULTS

CENTRAL SOURCE

Chevron U.S.A.
VOC Offsets

TABLE 3-1

CHEVRON USA INC. CENTRAL SOURCE

HYDROCARBON CREDITS

APCD #	CHEVRON ID	TEST DATE	UNCONTROLLED		# OF WELLS	LB/DAY OFFSETS @ 99% EFFICIENCY		APCD CREDITS	REESTABLISH CREDITS (SMALLER)
			TOTAL H/C LB/HR	LB/DAY PER WELL		WEIGHTED EMIS FACT	ACTUAL SRCE TEST		
302 B	CC-2-9	7-31-80	393.81	378.06	25.00	336.18	567.09	374.40	336.18
303	CC-1-9	8-4-80	191.50	95.75	48.00	645.47	275.76	715.00	645.47
305 B	CC-9-3	7-29-80	33.65	62.12	13.00	174.81	48.46	195.00	174.81
306	CC-3-2	8-4-80	0.07	0.06	26.00	349.63	0.10	390.00	349.63
308 B	CT-4-3	7-29-80	155.42	109.71	34.00	457.20	223.80	510.00	457.20
310 B	CC-3-3	7-30-80	164.84	263.74	15.00	201.71	237.37	208.80	201.71
311	CT-5-3	11-22-79	798.10	684.09	28.00	376.52	1149.26	418.90	376.52
313	CC-1-5	8-5-80	361.70	149.67	58.00	779.94	520.85	877.50	779.94
315	CT-3-5	8-6-80	83.88	154.86	13.00	174.81	120.79	222.00	174.81
316	CT-2-5	8-5-80	451.70	387.17	28.00	376.52	650.45	463.50	376.52
322 B	CT-2-4	7-31-80	188.36	145.83	31.00	416.86	271.24	460.30	416.86
323	CT-1-4	11-20-79	98.00	58.80	40.00	537.89	141.12	598.00	537.89
325	CC-3-31	8-7-80	498.55	412.59	29.00	389.97	717.91	432.50	389.97
326	CC-2-31	8-11-80	160.42	770.02	5.00	67.24	231.00		
327	CC-1-31	8-6-80	54.54	436.32	3.00	40.34	78.54	45.00	40.34
328	CC-2-32	8-8-80	79.88	383.42	5.00	67.24	115.03		
329	CC-3-32	8-7-80	44.80	179.20	6.00	80.68	64.51	85.00	80.68
330	CC-1-32	8-8-80	110.77	664.62	4.00	53.79	159.51	40.40	40.40
331 A	CC-4-32	8-1-80	105.83	317.49	8.00	107.58	152.40	131.40	107.58
333 A	CT-1-3	7-30-80	95.69	135.09	17.00	228.60	137.79	255.00	228.60
APCD CREDITS BASED ON				250.00					
WEIGHTED AVERAGE				224.12					
TOTALS						5862.97	5862.97	6422.70	5715.11

* Not reestablishing emission credits from these sources.



FIELD DATA SOURCE TEST

Prepared for CHEVRON USA

Rt. 1, Box 222-A

Bakersfield, CA 93308

Attention: Mike Kelley

Regarding Steam Testing

Regulatory Agency Kern County APCD

Purpose Compliance

Test Date 7/29, 7/30, 7/31 and 8/1/80

Unit Tested CT-4-3, 3-CC-1, CT-1-3, CC-3-3, CT-2-4, CC-2-9, CC-4-32

CC-3-9

Report Number: A 979

Reviewed By: *David M. Albert*
CHEMECOLOGY CORP.

SUMMARY
(Selected Results)

SITE	DATE	TIME	LB/HR RECOVERY			LB/HR LOSS			% EFF.
			LT HC	LIQ HC	TOTAL	LT HC	LIQ HC	TOTAL	
CT-4-3	7/29	1130	6.03	27.58	33.61	6.03	115	121.0	21.7
	7/29	1345	3.84	27.58	31.42	3.84	121	124.8	20.1
3-CC-1 (CC-9-3)	7/29	1715	0.009	33.63	33.64	0.009	0.02	0.029	99.9
	7/29	1920	0.002	33.63	33.63	0.002	0.0026	0.0046	99.9
CT-1-3	7/30	1050	0.95	~2.56 ^{1/}	3.51	0.95	83.5	84.45	4.0
	7/30	1225	2.13	~2.56	4.69	2.13	96.6	98.73	4.5
CC-3-3	7/30	1515	0.69	161.33	162.02	0.69	2.8	3.49	97.9
	7/30	1730	0.78	161.33	162.11	0.78	1.3	2.08	98.7
CT-2-4	7/31	1100	31.79	95.49	127.28	31.79	242.2	274.0	31.7
	7/31	1255	16.56	95.49	112.05	16.56	246.8	263.4	29.9
CC-2-9	7/31	1535	0.71	391.76	392.47	0.71	0.36	1.07	99.7
	7/31	1730	0.95	391.76	392.71	0.95	0.43	1.38	99.7
CC-4-32	8/1	1200	3.97	82.99	86.96	3.97	11.4	15.37	85.0
	8/1	1315	5.07	82.99	88.06	5.07	16.2	21.27	80.6

^{1/} Not enough sample collected to determine specific gravity.
Assumed 0.8.

SITE	INITIAL		FINAL		AVERAGE		TANK AREA (IN) ²	SP.GR.	LB/HR
	DATE & TIME	HC HT.	DATE & TIME	HC HT.	INCHES	MINS			
<u>CT-4-3</u>	7-31 0920	12.25 12.25 12.00 12.17-AVG	7-31 1920	12.5 13.5 13.625 12.5 13.03-AVG	0.86	600	9633	0.922	27.58
<u>3-00-1</u>	7-29 2000	27.5 27.75 26.25 27.75 27.31-AVG	7-30 2004	30.75 30.75 30.0 29.0 29.5 30.0-AVG	2.69	1444	9633	0.865	33.63
<u>CT-1-3</u>	7-30 1330	0.000	7-31 0830	0.063	0.063	1140	26769.9	-	~2.56 ^{1/}
<u>CC-3-3</u>	7-30 1415	16.0 (Avg of 3 readings)	7-30 1725	17.688	1.688	190	9633	0.870	161.33
<u>CT-2-4</u>	7-31 1020	14.5 15.0 15.563 15.021-AVG	7-31 1405	15.25 15.25 15.75 15.42-AVG	0.40	225	26769.9	0.926	95.49
<u>CC-2-9</u>	7-31 1500	21.375 21.0 21.25 21.21-AVG	7-31 1702	23.5 24.0 24.0 23.83-AVG	2.62	122	9633	0.874	391.76
<u>CC-4-32</u>	8-1 1130	10.5 10.25 10.25 10.33-AVG	8-1 1400	10.625 11. 10.875 11.25 11.04-AVG	0.71	150	9633	0.840	82.99

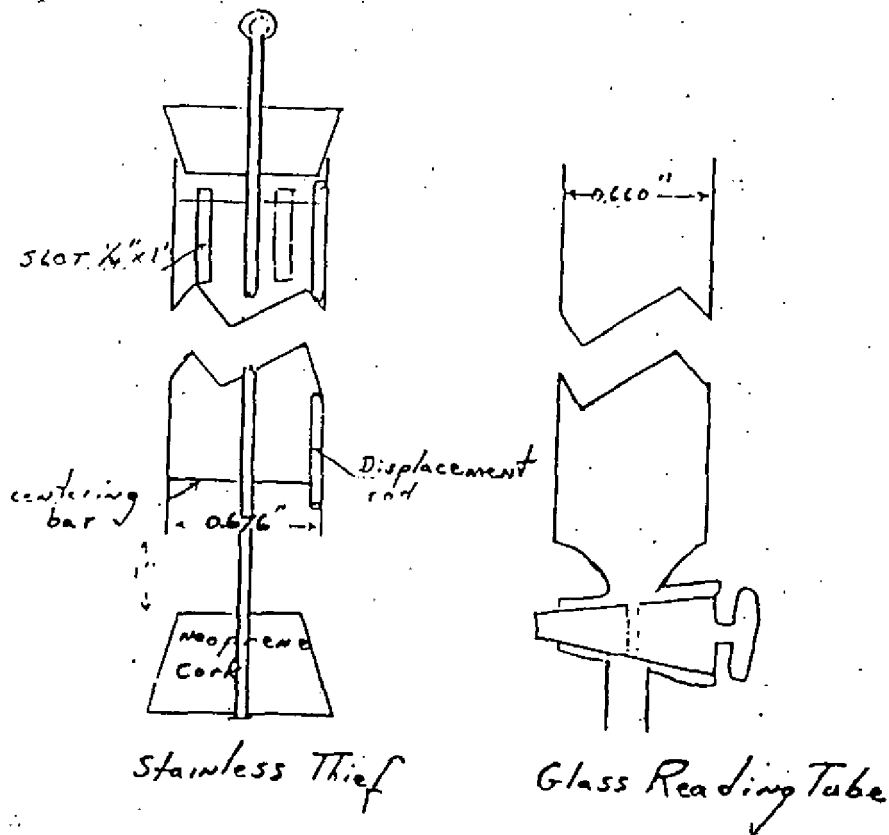
^{1/} insufficient sample collected for determination of sp.gr. Assumed 0.8.

TANK COLLECTION VOLUME DETERMINATION

Thief Construction:

A stainless steel tube four feet long was constructed with a rod centered by stainless bearings. Neoprene corks were attached to the rod at both ends. The top cork could be lightly seated in the thief tube holding the bottom cork away from the tube and allowing the tube to fill with fluid. A gentle tug on the center rod could unseat the top cork allowing the bottom cork to seal the fluid collection.

A glass reading tube was fabricated with a stopcock at the bottom for direct reading of hydrocarbon height. The thief tube was calibrated to hold the same volume per height as the reading tube by filling with distilled water and adding the correct size displacement rod. See Drawing.



Tank Hydrocarbon Volume Determination:

After tank pump down, the thief tube was lowered through a hole in the tank roof and allowed to descend gently through the hydrocarbon/water layer. The thief was snapped shut when it had descended at least a foot into the water layer. The closed thief was withdrawn from the tank, wiped off, and drained directly into the reading tube for HC height determination. Triplicate samples were taken at the beginning and end of the testing period with the time being recorded. Specific gravity was also determined on this fraction.

Problems Encountered:

- 1) No positive shut off of incoming gas from well casings. Wave action and turbulence of H.C. layer causes error in thief readings.
- 2) Some tanks not equipped with sight gauges making it impossible to pump down to set level for representative sampling.

CALCULATIONS:

$$\frac{\pi D^2}{4} = \text{area of a circle}$$

Tank area in square inches * 0.00433 gal/in³ = gal/inch of Tank

$$\text{lb/hr} = \text{gal/in} * 8.34 \text{ lbs/gal(H}_2\text{O)} * \text{Sp. Grav.} * \frac{\text{Change in HC vol(in.)}}{\text{Time Period (hours)}}$$

$$\% \text{ Efficiency of Recovery} = \frac{\text{Total Recovered}}{\text{Total Recovered} + \text{Total Lost}} * 100$$

VELOCITY TRAVERSE AND VOLUME FLOW RATE

Ref: Environmental Protection Agency, Code of Federal Regulations, Part 60, Chapter 1, Method 1 and 2
 : ASME Performance Test Code #27, N.Y., N.Y., 1957
 : ASTM D-2928-71
 : Western Precipitation Div. of Joy Manuf., WP-50, 1968

PROCEDURE:

The number of traverse points was chosen to aid in the extraction of a representative sample. Velocity head was determined using a calibrated type "S" pitot tube and Magnehelic differential pressure gage. Duct temperature was measured by means of a thermocouple attached to the pitot tube. Static pressure was measured with the Magnehelic and one leg of the pitot tube. Using the molecular weight and traverse data, velocity was calculated at each traverse point. From the average velocity, duct area, temperature, pressure and composition, actual and standard gas volume flow rate were calculated for the duct.

CALCULATIONS: (Performed by computer based on the following equations)

Symbol Identification:

t.p. = traverse point (distance from sample port wall), inches
 D = duct diameter (circular ducts), inches
 L = duct dimension having ports (rectangular), inches
 W = 2nd duct dimension (rectangular), inches
 k = number of traverse points on D or W
 v_d = velocity at duct conditions, fps
 C_p = pitot tube correction factor
 Δp = velocity head, "H₂O
 MW = molecular weight (wet)
 T_d & T_{std} = duct and standard temperature, OR
 P_d & P_{std} = duct (barometric/static) and standard pressure, "Hg
 A_d = duct area, sq ft
 Q_d = volume flow rate, actual CFM
 Q_{std} = volume flow rate, standard condition (wet or dry), SCFM

Equations:

1.) Circular Duct:

$$t.p. (1st\ half) = D/2 - (D/2k) \sqrt{k(k+1-2n)}$$

$$t.p. (2nd\ half) = D/2 + (D/2k) \sqrt{k(2n-1)} \quad \text{where } n = 1 \text{ to } k/2$$

2.) Rectangular Duct:

$$t.p. = W/2k + (n-1) * W/k$$

where k=(W/L)* no. of ports on L
 n = 1 to k

$$3.) \quad v_d = 85.48 * C_p \sqrt{\frac{T_d * \Delta p}{P_d * MW}}$$

$$Q_d = 60 * v_d(\text{avg}) * A_d$$

$$Q_{std}(\text{wet}) = Q_d * \frac{T_{std}}{T_d(\text{avg})} * \frac{P_d}{P_{std}}$$

$$Q_{std}(\text{dry}) = Q_{std}(\text{wet}) * (1 - \%H_2O/100)$$

PARTICULATE EMISSIONS

Ref: EPA, Code of Federal Regulations, Part 60, Chapter 1, Method 5
: ASME Performance Test Code #27, New York 1957
: Bay Area APCD, Source Test Manual, Revised
: Los Angeles APCD, Air Pollution Test Manual, Los Angeles, CA Nov. 196:

Sampling Procedures

The apparatus consisted of a stainless steel nozzle, heater wrapped stainless steel probe and stainless steel section containing the heater wrapped orifice section fitted with a Magnehelic differential pressure gage. A series of impinger-absorbers were connected in tandem and immersed in ice. The absorption train was followed by a gas drying tube containing indicating silica gel, an aspiration pump and a dry test meter.

The computer was used in selection of suitable sampling points, and nozzle size. The apparatus was leak tested, the probe heaters were brought to temperature and the nozzle was positioned at the first sampling point. The pump was immediately started and adjusted to obtain the isokinetic sampling rate.

Duct conditions were monitored throughout the sampling period with a type "S" pitot tube and thermocouple simultaneously positioned at the traverse point. Conditions at the sampling apparatus and metering device were constantly monitored and regularly recorded on the data sheet. Isokinetic sampling rate in terms of orifice differential pressure was calculated by computer for each set of duct and sampling apparatus conditions. Data was relayed between the computer and site by radio.

On completion of sampling from all usable traverse points, the apparatus was removed, sealed from possible contamination and transported to the lab. Replicate samples were taken at each of the available test ports.

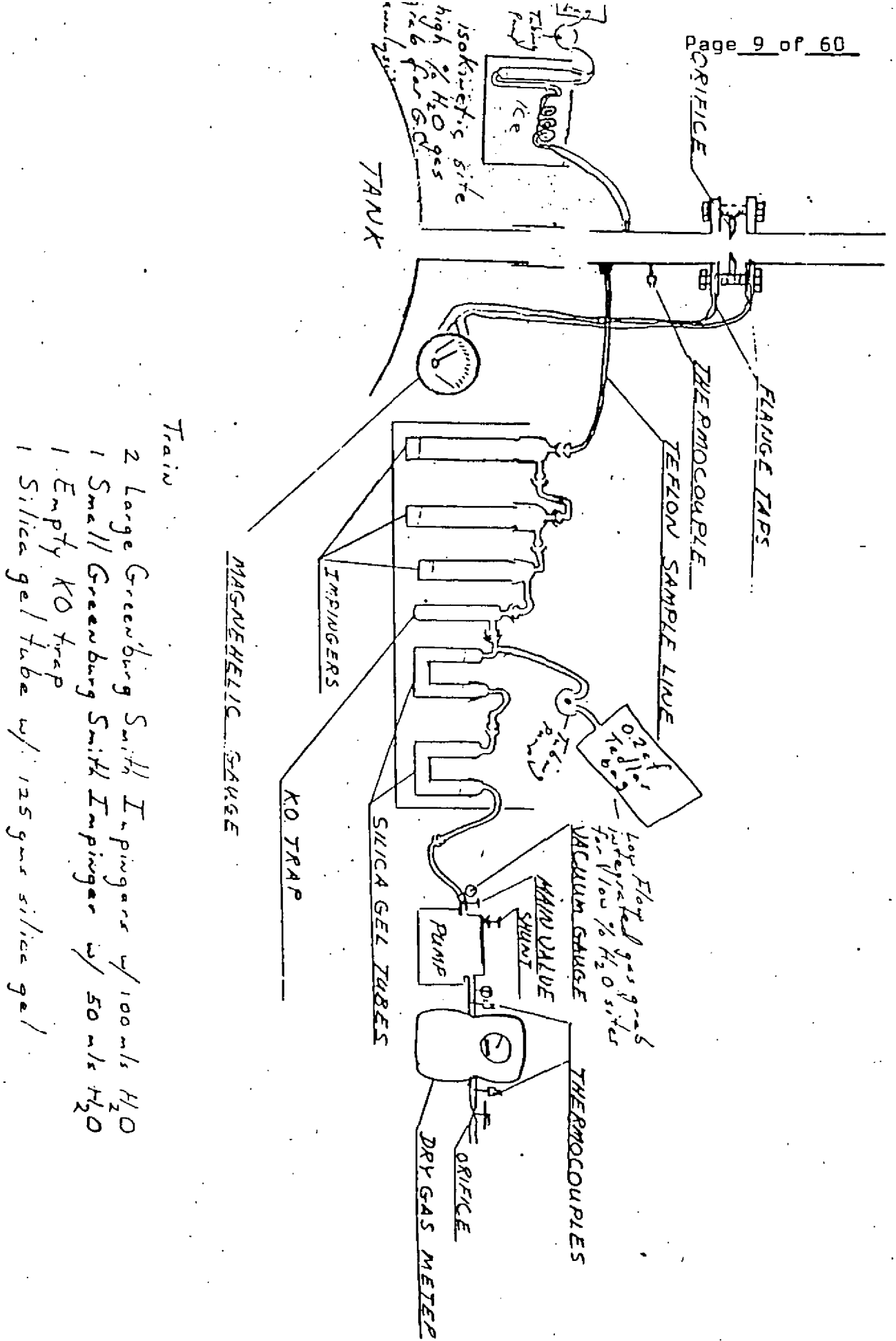
An attempt to follow EPA's suggestion of withdrawing the gas sample from the junction of the k.o. pot and silica gel during the isokinetic runs resulted in diluted samples. Prior to isokinetic sampling, a gas grab was taken through an iced coil and gas absorber filled with approximately 100 mls of distilled H₂O. The system was purged with sample until the 200 mls of gas absorber head-space was reduced to about 50 mls of head-space. A gas sampling bag was connected and filled until no more head-space remained in the gas absorber. The system was drained and the procedure repeated until 200 mls of dry gas was collected. Orsat analysis on this gas yielded 75% CO₂ and 0.5% O₂. An integrated gas sample started ten minutes after the isokinetic run was started and taken off the junction of the k.o. pot and silica gel yielded 6% CO₂ and 17.5% O₂. The reasons for this dilution are as follows:

- 1) The stack gas is 80-100% water - very small percentage of fixed gases available.
- 2) The head-space of the three impingers and k.o. pot is about 2 liters - there is not enough dry gas in the high temperature systems to completely purge the air from the head-space.

Gas samples taken from the high temperature, 80-95% H₂O, systems were taken in the above mentioned iced coil manner and analyzed by G.C. in the same manner as the low flow fin fan integrated gas samples.

Analytical Procedure

Analysis of the impinger catch is identical to the procedure explained for low flow systems.



Train

- 2 Large Greenburg Smith Impingers w/ 100 ml H₂O
- 1 Small Greenburg Smith Impinger w/ 50 ml H₂O
- 1 Empty KO trap
- 1 Silica gel tube w/ 125 gms silica gel

HYDROCARBON EMISSIONS FROM LOW FLOW KO DRUMS

Ref: "Principles and Practices of Flow Meter Engineering" L.K. Spink
AGA Report #3. EPA Source Manual.

Sampling Procedure:

The apparatus consisted of a cover plate with sampling tap and a threaded three inch insulated orifice run. This section was flanged to accept a series of orifice plates and tapped for temperature differential pressure, and gas sampling points. A series of impinger-absorbers connected in tandem and immersed in ice were joined via a short section of teflon line to the sampling tap located in the cover plate. Due to the extremely low volume experienced, isokinetic sampling was not attempted. The absorption train was followed by a gas drying tube containing indicating silica gel, a diaphragm pump and a dry test meter. A sampling rate of 0.3 cfm was maintained at the meter during sampling. Sampling time was varied to obtain not more than 20 grams of hydrocarbon.

Duct conditions were monitored by two methods depending on the stability of the flow.

- 1) Extremely varied flow - Three sets of readings were obtained at 5 minute intervals (20-30 minute test) or 10 minute intervals (45-60 minute test).

A set of readings consists of differential pressure across an appropriate orifice and temperature of outlet gas every 5 seconds for a one minute time period.

- 2) Stable flow - One reading every 3 minutes (20-30 minute test) or one reading every 5 minutes (45-60 minute test).

EQUATIONS:

$$\text{Flow: } \beta = d/D \quad K_o = \left((0.5993 - \frac{0.007}{D}) - (0.364 - \frac{0.076}{\sqrt{D}}) \beta^4 - 0.4(1.6 - \frac{1}{D})^5 (0.07 - \frac{1}{2D} - \beta)^{5/2} - (0.009 - \frac{0.034}{D}) (0.5 - \beta)^{3/2} - \frac{(65}{D^2} + (\beta - 0.7)^{5/2}) \div (1 + 0.000015 (830 - 5000\beta + 9000 \beta^2 - 4200 \beta^3 + \frac{530}{\sqrt{D}})) \right)$$

$$F_b = 339.17 d^2 K_o$$

$$F_b/12.1384 = k'$$

$$\text{ACFM} = Q_o = (k' * \frac{1}{\sqrt{28.85 * \text{sp.gr.} * P_{\text{abs.}}}}) * \sqrt{((T + 460) * \Delta p)}$$

$$\text{SCFM} = Q_{\text{std}} = Q_o * \frac{520}{T_d + 460} * \frac{P_{\text{abs.}}}{29.92}$$

Where: D = pipe i.d. in inches
d = orifice size in inches
Fb = orifice coefficient

Pabs = pressure "Hg
T = temperature, °F
Δp = pressure across orifice,
H₂O

Concurrent with each particulate sampling an integrated gas sample was withdrawn from a tee located between the empty k.o. pot and the silica gel in the particulate train (see drawing). A 0.2 cf Tedlar bag was filled and its volume added to the meter volume for $V_m(\text{std})$ calculation. The bag was analyzed for $C_1 - C_5^+$ hydrocarbons.

Analytical Procedure:

The liquid fraction of the outlet sample collected in the iced impingement train will be analyzed as follows:

- a. The contents of the Greenburg Smith impingers will be placed in a separatory funnel, the visible hydrocarbon fraction to be gravimetrically determined.
- b. The impingers, sampling line, H_2O fraction and separatory funnel will be washed at least three times with $MeCl_2$ to extract suspended hydrocarbon, the evaporated results to be gravimetrically determined.
- c. Both fractions will be added together and an emission rate calculated.

The gas fraction of the outlet sample collected in the tedlar bag will be analyzed as follows:

- a. A methane standard, and a propane standard of known concentration will be injected into a gas chromatograph equipped with a Poropak Q column and flame ionization detector. A known volume of sample will be similarly injected for quantitative comparison of peak areas produced on the chromatogram.
- b. $C_1 - C_5$ will be determined in percent volume and lbs/hr.
- c. C_6 and greater will be backflushed thru the detector and weighed as C_6 in percent volume and lbs/hr.
- d. Total light hydrocarbons and total lbs/hr excluding methane will be calculated.

EQUATIONS:

x = hydrocarbon component

$$\text{ppm}_x(\text{dry}) = \frac{\text{ppm}}{\text{or } \%} \text{ STD} * \frac{\text{Attenuation}_x}{\text{attenuation}_{\text{std}}} * \frac{\text{area}_x}{\text{area}_{\text{STD}}} * \text{response factor}$$

Ref: "Principles and Practices of Flow Meter Engineering" L.K. Spink
AGA Report #3. EPA Source Manual.

DATA:Date 7-29-80 Time 0945

Description: Two 3" ports 90° apart five diameters downstream and 1/2 diameter upstream from a disturbance.

Diagram of Duct

Duct Diameter 12.25 inches Area 0.82 ft²

Rectangular duct _____ X _____

%H₂O 95.5 MW 18.98Duct Static Pressure _____ inches H₂O

Pitot tube # _____

Standard Conditions 60 °F & 29.92 "Hg

Mag box # _____

Pitot Tube Coefficient 0.775

Handitemp # _____

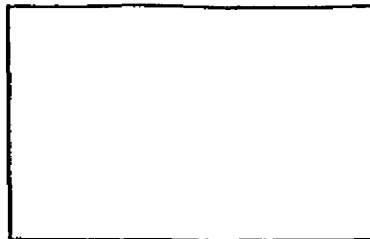
Sec. 3 c.t.-4-3

Traff Pt.	Inches from edge	1st			2nd			3rd			4th		
		Temp °F	ΔP in.	V _d ft/sec	Temp °F	ΔP in.	V _d ft/sec	Temp °F	ΔP in.	V _d ft/sec	Temp °F	ΔP in.	V _d ft/sec
1	0.4	208	0.16	29.0	209	0.19	31.7						
2	1.3	208	0.16	29.0	209	0.18	30.8						
3	2.4	208	0.19	31.6	209	0.19	31.7						
4	4.0	209	0.24	35.6	209	0.23	34.8						
5	8.3	209	0.24	35.6	210	0.27	37.8						
6	9.9	209	0.24	35.6	210	0.25	36.3						
7	11.0	209	0.23	34.8	210	0.26	37.1						
8	11.9	209	0.23	34.8	210	0.26	37.1						
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

RESULTS:Average velocity (V_d) 34.0 FPS Average duct temp. 209 °FActual volume flow rate Q_d 1670 CFM at 209 °F & 29.34 "HgVolume flow rate Q_{std(wet)} 1275 CFM at standard conditonsVolume flow rate Q_{std(dry)} 57 CFM at standard conditons

CHEMECOLOGY CORPORATION
 PARTICULATE MONITOR DATA & RESULTS

Date: 7-20-80 Run: 1
 Client: Chevron Oil Co.
 Unit: Sec. 3 C.T.-4-2
 Meter:# _____ Orifice: _____
 Leak rate 0.0 CFM
 "ck.vacuum: 5.0 "Hg
 Nozzle:# _____ i.d. 4.5 mm
 Pitot:# 85 l. 0.750
 Train:# _____ Filter:# _____



Stack Cross Section

Temp ambient: 105
 Pressure bar: 29.94 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.94 "Hg
 %H₂O initial: 95.2
 %H₂O ambient: _____
 MW initial: 18.96
 Temp Unit: # _____

K₀ 0.300

Sample Bag # 7

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Orifice °F	Filter °F	Gas to Pump °F	Dry in °F	Test out °F	Orifice ΔH, "H ₂ O	Volume CF
2	1150	212	0.27	36.6	355		ice	105		1.55	972.72
3	1155	212	0.26	35.9	350			100		1.47	
4	1140	212	0.30	38.6	325			100		1.70	
5	1145	212	0.30	38.6	350			100		1.74	
6	1150	212	0.30	38.6	360			110		1.76	
7	1155	212	0.30	38.6	360			110		1.76	
	1200	End of Test									975.24
											0.5c
al	30 min.	212		37.8				AVG 109	AVG		
	Average							AVG			

Recorded by: _____

DATA AND RESULTS:

Site C M 1-3 Date 7-20-80 Hr. 1130

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grbrg.	H ₂ O	285	100	185
#2 Lg. Grbrg.	"	128	100	28
#3 Sm Grbrg.	H ₂ O	18	50	-32
liquid trap	empty	0	0.0	0
drying tube	silica gel	129	125	4
Total				185

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net mgram	Co
Oil Fraction	29.74	25.00	4.74	
MeCl ₂ Ext.	57.04	56.10	0.94	
backup filter				
probe wash				
(condensables)				
			5.68	

Gas Composition:

CO₂ 75.0 %vol(dry) ---
 O₂ 0.5 " "
 CO " "
 N₂ 24.5 " "
 H₂O 95.1 " "

Total MW (wet) 12.00
 Excess air _____ %
 Sampled volume 0.45 SDCF
 Isokinetic rate 102 %

Dust grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate: 1860 ACFM 1410 SCFM 69 SDCF

E.R. 115.1 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-4-3 Date 7/29/80 Time 11301.06% C₁ @ 10,000X = 541.02% C₃ @ 10,000X = 10

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	50000	78.5	7.70	13.4
ETHYLENE					
ETHANE	1.41	500	4	0.029	0.064
PROPYLENE					
PROPANE	1.00	100	15	0.015	0.073
BUTENES					
BUTANES	0.77	100	11.5	0.009	0.057
PENTENES					
PENTANES	0.63	200	93.5	0.120	0.94
> n-PENTANE	0.50	200	509	0.519	4.87
CARBON MONOXIDE	—	—	—		

SDCFM = 69

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

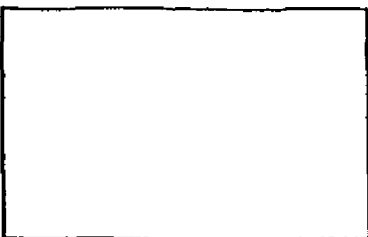
Total olefins C _____ ppm as Carbon _____ ppm

0.69 % vol Excl C₁6.03 lb/hr excl C₁

*methane neglected

CHEMECOLOGY CORPORATION
PARTICULATE MONITOR DATA & RESULTS

Date: 7-29-80 Run: 2
 Client: Chevron Oil
 Unit: C.M. - 4-3
 Meter:# _____ Orifice: _____
 Leak rate _____ CFM
 "ck.vacuum: _____ "Hg
 Nozzle:# _____ i.d. 4.5 mm
 Pitot:# 85 l. C 0.750
 Train:# _____ Filter:# _____
 K 0.500



Stack Cross Section

Temp ambient: 110
 Pressure bar: 29.92 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.92 "Hg
 %H₂O initial: 85.0
 %H₂O ambient: _____
 MW initial: 19.09
 Temp Unit: # _____

WEST PORT		Duct Data			Sample Train			Meter Data			
Trav. Point	Time	Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in °F	Test out °F	Orifice ΔH. "H ₂ O	Volume CF
2	1345	212	0.20	51.5			ice	110		1.29	976.50
3	1350	212	0.30	58.6				110		1.72	
4	1355	212	0.30	43.4				110		2.21	
5	1400	212	0.30	38.6				110		1.72	
6	1405	212	0.36	42.5				110		2.06	
7	1410	212	0.36	42.5				110		2.06	
8	End of Test										976.08
											0.48
Total 30 min.		212		50.45				Avg 110	Avg		
Average								Avg			

Recorded by: _____

DATA AND RESULTS:

Site C.P. -4-3 Date 7-22-80 Hr. 17:15

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	294	100	194
#2 Lg. Grnbrg.	"	100	100	0
#3 Sm. Grnbrg.	H ₂ O	52	50	2
liquid trap	empty	0	0.0	0
drying tube	silica gel	120	125	5
Total				200

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net mgram	Co
Oil Fraction	29.27	25.15	4.12	
MeCl ₂ Ext.	58.03	56.08	1.95	
backup filter				
probe wash				
(condensables)				
Total			6.07	

Gas Composition:

CO₂ 75.0 %vol(dry)
 O₂ 0.5 " "
 CO _____ " "
 N₂ 24.5 " "
 H₂O 05.8 " "

MW (wet) 18.07
 Excess air _____ %
 Sampled volume 0.41 SDCF
 Isokinetic rate 105 %

Dust grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate: 1940 ACEM 1470 SCFM 62 SDCFM

E.R. 121.3 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-4-3 Date 7/29/80 Time 1345 hrs1.06% C₁ @ 10,000X = 541.02% C₃ @ 10,000X = 10

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr ⁰
STD. PROPANE					
METHANE	1.0	50,000	71	6.97	
ETHYLENE					
ETHANE	1.41	100	4.5	0.006	0.019
PROPYLENE					
PROPANE	1.00	100	22	0.022	0.007
BUPENES					
BUTANES	0.77	100	20	0.016	0.080
PENTENES					
PENTANES	0.63	200	116	0.149	1.05
> n-PENTANE	0.50	200	300	0.306	2.58
CARBON MONOXIDE	—	—	—		

SDCFM = 62

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.50 % vol excl. C₁3.84 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron
Unit: 3-C.C.-1

Date: 7/29/80

<u>Ambient</u>	<u>Duct</u>	<u>Sampling</u>
barometric pressure <u>29.32</u> Hg	static pressure <u>-0.02</u> "H ₂ O	nozzle i.d. _____ mm
ambient temperature <u>100</u> °F	absolute " <u>29.32</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) <u>28.09</u>	pitor coef. <u>0.</u>
	%H ₂ O (initial) <u>7.4</u>	meter volume, CF _____

Orifice 0.375"
Run 3.068"

final 1002.13 _____
start 980.80 _____
21.33 + 0.20 Ba

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp OF	Orifice ΔP	ACFM	Probe CF	Filter OF	Gas to Pump OF	Dry Test OF	Orifice ΔH. "H ₂ O
	1715	start	test						
	1725	105	0.06	0.475				113	0
	1730	105	0.06	0.475				113	
	1735	120	0.04	0.393				115	
	1740	119	0.04	0.393				115	
	1750	119	0.04	0.393				115	
	1755	119	0.05	0.439				115	
	1800	119	0.06	0.481				115	
	1805	118	0.060	0.481				114	
	1810	117	0.07	0.519				113	
	1815	End test							
AVG.	ACFM 0.45	AVG.	SCFM 0.40	SDCFM 0.37	Sp. Gr. 0.97				
Average 60 min	116	XXXX	0.450	XXXX	XXXX	XXXXXX			

DATA AND RESULTS:

S to 3°C.C.-1 Date 7/29/80 Hr. 1715

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grb.	H2O	130	100	30
#2 Lg. Grb.	H2O	100	100	0
#3 Sm. Grb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				33

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial #183	31.10	25.10	6.00	
MeCl2 EXT.	58.10	56.06	2.04	
backup filter				
probe wash				
(condensables)				
			Total 8.04	

Gas Composition:

CO₂ 0.6 %vol(dry)
 O₂ 20.0 " "
 CO -- " "
 N₂ 79.4 " "
 H₂O 7.4 "

MW (wet) 28.09
 Excess air _____ %
 Sampled volume 19.11 SDCF
 Isokinetic rate -- %

Dust grainloading:

C_o 6.48 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.020 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

CC-3-9

DATA AND RESULTS:

Sample type 3 CC-1 Date 7/29/80 Time# 1715

1.03% C₁ @ 5000 X = 68
1.02% C₃ @ 5000 X = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	%VOL	LB/HR
STD. PROPANE					
METHANE	1.0	10,000	83	2.51	
ETHYLENE					
ETHANE	1.4	100	4	0.007	0.0001
PROPYLENE					
PROPANE	1.0	100	1.5	0.002	0.00005
BUTENES					
BUTANES	0.77	100	-		
PENTENES					
PENTANES	0.63	100	11	0.009	0.0004
> n-PENTANE	0.50	100	284	0.176	0.0088
CARBON MONOXIDE	-	-	-		

SDCFM = 0.37

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.19 % vol excl. C₁

0.009 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron
Unit: 3-C.C.-1

Date: 7/29/80

Ambient	Duct	Sampling
barometric pressure <u>29.32</u> "Hg	static pressure <u>0</u> "H ₂ O	nozzle i.d. _____ mm
ambient temperature <u>100</u> °F	absolute " <u>29.32</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) <u>27.90</u>	pitor coef. <u>0.</u>
	%H ₂ O (initial) <u>9.2</u>	meter volume, CF _____

Orifice 0.375"
Run 3.068"

final 8.745
start 2.900
5.845+ 0.20 Bag

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp °F	Orifice Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry Test °F	Orifice ΔH, "H ₂ O
	1920	106	0.02	0.274				00	
	1930	106	0.00	0.000				67	
	1935	104	0.00	0.000				105	
	1940	end test due to insufficient flow							
This test was cut short due to no observable flow.									
Avg. ACFM 0.091		Avg. SCFM 0.082		Avg. SDCFM 0.074		Sp. Gr. 0.97			
Average	20 min	106	XXXX	.091	XXXX	XXXX	XXXXX	100	

DATA AND RESULTS:

Site 3-C.C.-1 Date 7/29/80 Hr. 1920

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grb.	H2O	109	100	9
#2 Lg. Grb.	H2O	100	100	0
#3 Sm. Grb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				12

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
MeCl2 EXT	26.17	25.10	1.07	
backup filter	56.60	56.18	0.42	
probe wash				
(condensables)				
			Total	1.49

Gas Composition:

CO₂ 0.6 %vol(dry)
 O₂ 20.0 " "
 CO -- " "
 N₂ 79.4 " "
 H₂O 9.2 " "

MW (wet) 27.90
 Excess air _____ %
 Sampled volume 5.50 SDCF
 Isokinetic rate _____ %

Dust grainloading:

Co 4.17 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.0026 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type 3CC-1 Date 7/29/80 Time 1920

1.03% C₁ @ 5000 = 68
 1.02% C₃ @ 5000 = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	10,000	93	2.82	
ETHYLENE					
ETHANE	1.41	100	5	0.009	3x10 ⁻⁵
PROPYLENE					
PROPANE	1.00	100	4	0.0040	2.5x10 ⁻⁵
BUTENES					
BUTANES	0.77	100	-		
PENTENES					
PENTANES	0.63	100	13	0.010	8.5x10 ⁻⁵
> n-PENTANE	0.50	100	330	0.204	2.1x10 ⁻³
CARBON MONOXIDE	-	-	-		

SDCF^M = 0.074

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

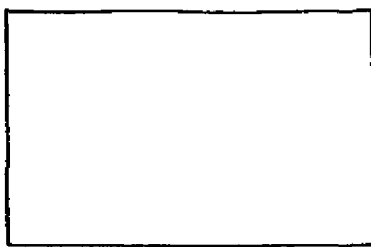
Total olefins C _____ ppm as Carbon _____ ppm

0.23 % vol excl. C₁0.0022 lb/hr excl C₁

*methane neglected

CHEMECOLOGY CORPORATION
 PARTICULATE MONITOR DATA & RESULTS

Date: 7-30-80 Run: 1
 Client: Chevron Oil
 Unit: C.P.-1-5
 Meter:# _____ Orifice: _____
 Leak rate 0.00 CFM
 " ck.vacuum: 0 "Hg
 Nozzle:# _____ i.d. 7 mm
 Pitot:# 85 l. C 0.750
 Train:# _____ Filter:# _____
 K_o 0.300



Stack Cross Section

Temp ambient: 05
 Pressure bar: 29.5 "Hg
 Pressure static: 0.0 "H₂O
 Pressure abs: 29.5 "Hg
 %H₂O initial: 25.2
 %H₂O ambient: _____
 MW initial: 19.56
 Temp Unit: # _____

North

Trav. Point	Time	Duct Data			Sample Train			Meter Data				
		Temp. °F	Head Δp	Velocity ft/sec	Orifice °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF	
2	1050	208	0.03	12.0	320		ice	08		1.02	009.30	
3	1055	208	0.03	12.0	300			08		0.96		
4	1100	208	0.03	12.0	305			08		0.96		
5	1105	208	0.03	12.0	305			100		0.97		
6	1110	208	0.03	12.0	305			100		0.97		
7	1115	208	0.03	12.0	305			100		0.97		
	1120	end test										009.445
								Avg	Avg			
Average								208	12.0		0.97	0.115

Int. Gs. Bag+0.100

Recorded by: _____

DATA AND RESULTS:

Site C.T.-1-3 Date 7/30/80 Hr. 1050

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbg.	H2O	252	100	152
#2 Lg. Grnbg.	H2O	100	100	0
#3 Sm. Grnbg.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128.5	125.0	3.5
Total				155.5

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	33.78	25.13	8.65	
MeCl2 extract	57.98	56.15	1.83	
backup filter				
probe wash				
(condensables)				
			Total	10.48

Gas Composition:

CO2 70 %vol(dry)
 O2 0 " "
 CO --- " "
 N2 30 " "
 H2O 27.0 "

MW (wet) 18.6
 Excess air _____ %
 Sampled volume 0.224 SDCF
 Isokinetic rate 108.7%

Dust grainloading:

Co 0.659 grains/SDCF @ _____ °F and 29.92"Hg

C _____ grains/SDCF @ _____
 590 ACFM 451 SCFM 13.5 SDCFM

Emission Rate:

E.R. 83.5 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO2 = _____ / _____ (QO2 - QCO2) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-1-3Date 7/30/80Time 10501.03% C₁ @ 5000 = 771.02% C₃ @ 5000 = 18.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	200,000	29	15.5	
ETHYLENE					
ETHANE	1.41	2000	3	0.092	0.059
PROPYLENE					
PROPANE	1.00	100	32	0.035	0.033
BUTENES					
BUTANES	0.77	100	17	0.014	0.018
PENTENES					
PENTANES	0.63	100	166	0.113	0.174
> n-PENTANE	0.50	200	333	0.361	0.663
CARBON MONOXIDE	—	—	—	—	—

13.5 SDCFM

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.62 % vol excl. C₁0.95 lb/hr excl. C₁

*methane neglected

CHEMECOLOGY CORPORATION
PARTICULATE MONITOR DATA & RESULTS

Date: 7/30/80 Run: 2
 Client: Chevron
 Unit: C.T.-1-3
 Meter: # Orifice:
 Leak rate 0.00 CFM
 " ck. vacuum: 5 "Hg
 Nozzle: # i.d. 7 mm
 Pitot: # 85 l. C 0.750
 Train: # Filter: #



Stack Cross Section

Temp ambient: 100
 Pressure bar: 29.10 "Hg
 Pressure static: 0.0 "H₂O
 Pressure abs: 29.10 "Hg
 %H₂O initial: 97.0
 %H₂O ambient:
 MW initial: 18.6
 Temp Unit: #

Ko=0.30

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Orifice °F	Gas to Pump °F	Dry in	Test °F	Orifice out	Volume AH, "H ₂ O CF
2	1225	208	0.03	12.3	290	335		98		1.00	010.400
3	1230	208	0.03	12.3	290	300		100		0.96	
4	1235	208	0.03	12.3	290	320		98		0.98	
5	1240	208	0.03	12.3	290	320		97		0.98	
6	1245	208	0.03	12.3	290	350		97		1.02	
7	1250	208	0.03	12.3	290	330		97		1.00	
	1255	end test									010.80
Total 30 min.		208		12.3				Avg 98	Avg	0.99	0.400
Average								Avg			

Recorded by: _____

DATA AND RESULTS:

Site C.M. 1-2 Date 7/30/80 Hr. 1225

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbg.	H2O	242	100	142
#2 Lg. Grnbg.	H2O	127	100	27
#3 Sm. Grnbg.	H2O	19	50	-31
liquid trap	empty	0	0.0	0
drying tube	silica gel	129.5	125	4.5
Total				142.5

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Oil Fraction	35.71	25.07	10.64	
MeCl ₂ Ext.	56.62	56.04	0.58	
backup filter				
probe wash				
(condensables)				
			11.22	

Gas Composition:

CO₂ 65 %vol(dry)
 O₂ 0 " "
 CO --- " "
 N₂ 35 " "
 H₂O 04.8 "

Total MW (wet) 19.1
 Excess air _____ %
 Sampled volume 0.370 SDCF
 Isokinetic rate 99.5 %

Dust grainloading:

C_o _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate: 605ACFM 463SCFM 24.1 SDCFM

E.R. 96.6 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-1-3 Date 7/30/80 Time 1225

1.03% C₁ @ 5000X = 77
 1.02 C₃ @ 5000X = 18.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.00	200,000	32	17.1	
ETHYLENE					
ETHANE	1.41	500	13	0.099	0.114
PROPYLENE					
PROPANE	1.00	100	31	0.034	0.056
BUTENES					
BUTANES	0.77	100	15	0.013	0.028
PENTENES					
PENTANES	0.63	100	141	0.096	0.264
> n-PENTANE	0.50	200	471	0.511	1.67
CARBON MONOXIDE	—	—	—		

SDCFM = 24.1

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.753 % vol excl. C₁2.13 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron
Unit:

Date: 7/30/80

C.C. 3-3

<u>Ambient</u> barometric pressure <u>29.40</u> "Hg	<u>Duct</u> static pressure <u>-0.04</u> "H ₂ O	<u>Sampling</u> nozzle i.d. _____ mm
ambient temperature <u>100</u> °F	absolute " <u>29.4</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) <u>32.66</u>	pitor coef. <u>0.</u>
	%H ₂ O (initial) <u>20.8</u>	meter volume, CF _____

Orifice 1.000"
Run 3.068"

final 772.90
start 758.90
14.0 +0.20 bag

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp OF	Δp	ACFM	Probe OF	Filter OF	Gas to Pump OF	Dry Test OF	Orifice ΔH. "H ₂ O
	1515	140		-				102	
	1530	140		7.1				107	
	1535	140		-				106	
	1540	140		6.5				106	
	1545	140		-				106	
	1550	140		7.0				106	
	1555	140		-				106	
	1600	end test							
ACFM determinations were done by taking readings at five second intervals for one minute. Three determinations were done during the test.									
Avg. ACFM 6.9 Avg. SCFM 5.9 Sp. Gr. 1.13									
Average	45 min	140	XXXX	6.9	XXXX	XXXX	XXXXX	106	

DATA AND RESULTS:

S to C.C. 3-3 Date 7/30/80 Hr. 1515

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grngb.	H2O	170	100	70
#2 Lg. Grngb/	H2O	100	100	0
#3 Sm. Grngb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				73

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
MeCl2 EXT	131.08	75.78	55.30	
backup filter	58.03	56.10	1.93	
probe wash				
(condensables)				
Total			57.23	

Gas Composition:

CO2 52.0 %vol(dry)
 O2 5.0 " "
 CO --- " "
 N2 43.0 " "
 H2O 20.8 "

MW (wet) 32.66
 Excess air _____ %
 Sampled volume 12.82 SDCF
 Isokinetic rate --- %

Dust grainloading:

Co 68.74 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

SDCFM 4.7
 E.R. 2.8 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO2 = _____ / _____ (QO2 - QCO2) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-3-3 Date 7-30-80 Time 1515

1.03% C₁ @ 5000X = 77
 1.02% C₃ @ 5000X = 18.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	200,000	26.5	14.2	
ETHYLENE					
ETHANE	1.41	2,000	3.5	0.107	0.024
PROPYLENE					
PROPANE	1.00	100	37.8	0.041	0.0134
BUTENES					
BUTANES	0.77	100	21	0.0175	0.008
PENTENES					
PENTANES	0.63	100	227	0.155	0.083
> n-PENTANE	0.50	200	811	0.88	0.561
CARBON MONOXIDE	—	—	—	—	—

SDCFM = 4.7

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

1.20 % vol excl. C₁0.69 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS: C.C. 3-3 7/30/80 1730 hrs

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. GRngb.	H2O	112	100	12
#2 Lg. Grngb.	H2O	105	100	5
#3 Sm. Grngb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				20

Filter Sample: Type: _____

	Final Wt	Tare Wt	Net gram	Co
Vial	39.45	25.10	14.35	
MeCl2 EXT	57.13	56.05	1.08	
backup filter				
probe wash				
			15.43	
Total				

Gas Composition:

CO₂ 5.2 %vol(dry)
 O₂ 17.0 " "
 CO -- " "
 N₂ 76.9 " "
 H₂O 9.9 "

MW (wet) 28.41
 Excess air _____ %
 Sampled volume 8.44 SDCF
 Isokinetic rate _____ %

Dust grainloading:

Co 28.15 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

5.6 SDCFM
 E.R. 1.3 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-3-3 Date 7-30-80 Time 1730

1.03% C₁ @ 5000X = 77
 1.02% C₃ @ 5000X = 18.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	200,000	4	2.1	
ETHYLENE					
ETHANE	1.41	100	7	0.0107	0.003
PROPYLENE					
PROPANE	1.0	100	3.5	0.0038	0.001
BUTENES					
BUTANES	0.77	100	2	0.0017	0.0009
PENTENES					
PENTANES	0.63	100	47	0.032	0.020
> n-PENTANE	0.50	200	910	0.987	0.752
CARBON MONOXIDE	—	—	—		

SDCFM = 5.6

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

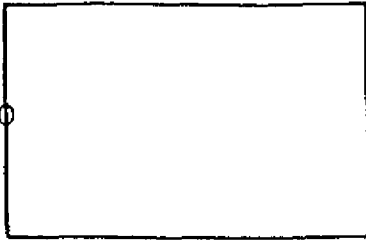
Total olefins C _____ ppm as Carbon _____ ppm

1.04% % vol excl. C₁0.78 lb/hr excl. C₁

*methane neglected

CHEMECOLOGY CORPORATION
PARTICULATE MONITOR DATA & RESULTS

Date: 7/31/80 Run: 1
 Client: Chevron
 Unit: C.T. 2-4
 Meter: # _____ Orifice: Ko 0.30
 Leak rate 0.00 CFM
 □ ck. vacuum: 5 "Hg
 Nozzle: # _____ i.d. 4.5 mm
 Pitot: # 1. C 0.75
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 95
 Pressure bar: 29.50 "Hg
 Pressure static: 0.00 "H₂O
 Pressure abs: 29.50 "Hg
 %H₂O initial: 89.4
 %H₂O ambient: _____
 MW initial: 20.5
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Orifice °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
2	1100	208	0.50	47.6		320		107		0	012.00
3	1105	208	0.50	47.6		295		110		0	
4	1110	208	0.50	47.6		295		110		0	
5	1115	208	0.50	47.6		310		115		0	
6	1120	208	0.50	47.6		310		115		0	
7	1125	208	0.50	47.6		310		115		0	
	1130	end test									014.59
cal 30 min.		208		47.6				Avg 112	Avg		2.59
Average								Avg			

Recorded by: _____

DATA AND RESULTS:

Site C.I. 2-4 Date 7/31/80 Hr. 1100

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbg.	H2O	335	100	235
#2 Lg. Grnbg.	H2O	110	100	10
#3 Sm. Grnbg.	H2O	12	50	-38
liquid trap	empty	0.0	0.0	0
drying tube	silica gel	129.0	125.0	4
Total				211

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	35.79	25.11	10.68	
MeCl2 EXT	57.79	56.07	1.72	
backup filter				
probe wash				
(condensables)				
			12.40	

Gas Composition:

CO2 86.5 %vol(dry)
 O2 0 " "
 CO _____ " "
 N2 13.5 " "
 H2O 80.9 "

Total
 MW (wet) 22.56
 Excess air _____ %
 Sampled volume 2.82 SDCF
 Isokinetic rate 107.6 %

grainloading:

Co 82.3 grains/SDCF @ 60°F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate: 2340 ACFM 1800 SCFM 343 SDCFM

E.R. 242.2 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO2 = _____ / _____ (QO2 - QCO2) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-2-4 Date 7-31-80 Time 1100

1.03% vol C₁ @ 5000X = 68
 1.02% vol C₃ @ 5000X = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	21	12.7	
ETHYLENE					
ETHANE	1.41	2000	2.5	0.087	1.42
PROPYLENE					
PROPANE	1.00	100	33	0.041	0.974
BUTENES					
BUTANES	0.77	100	30	0.029	0.898
PENTENES					
PENTANES	0.63	100	103	0.080	3.13
> n-PENTANE	0.50	200	440	0.544	25.37
CARBON MONOXIDE	—	—	—		

SDCFM = 343

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.78% vol excl C₁31.8 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

S to C.T. 2-4 Date 7/31/80 Hr. 1255

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbg.	H2O	330	100	230
#2 Lg. Grnbg.	H2O	100	100	0
#3 Sm. Grnbg.	H2O	50	50	0
liquid trap	empty		0.0	0
drying tube	silica gel	129	125	4
Total				234

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
Vial	36.09	25.16	10.93	
MeCl2 EXT	57.98	56.06	1.92	
backup filter				
probe wash				
(condensables)				
			Total	12.85

Gas Composition:

CO2 85.0% vol(dry)
 O2 0.0 " "
 CO -- " "
 N2 15.0 " "
 H2O 92.7 "

MW (wet) 19.73
 Excess air _____ %
 Sampled volume 0.86 SDCF
 Isokinetic rate 109.1%

grainloading:

Co _____ grains/SDCF @ 60 °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate:

2230 ACEM 1710 SCFM 125 SDCFM
 E.R. 246.8 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO2 = _____ / _____ (QO2 - QCO2) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-2-4 Date 7-31-80 Time 1255

1.03% C₁ @ 5000X = 68
 1.02% C₃ @ 5000X = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	100000	41	12.4	
ETHYLENE					
ETHANE	1.41	100	6	0.0105	0.062
PROPYLENE					
PROPANE	1.0	100	31	0.038	0.33
BUTENES					
BUTANES	0.77	100	26	0.025	0.28
PENTENES					
PENTANES	0.63	100	89	0.069	0.99
> n-PENTANE	0.5	200	710	0.872	14.9
CARBON MONOXIDE	—	—	—		

SDCF₁₁ = 125

Total light hydrocarbons C _____ *ppm vol. (dry)
 as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

1.02% vol excl. C₁
 16.56 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron
Unit: C.C.-2-9

Date: 7/31/80

<u>Ambient</u>	<u>Duct</u>	<u>Sampling</u>
barometric pressure <u>29.50</u> "Hg	static pressure <u>-0.10</u> "H ₂ O	nozzle i.d. _____ mm
ambient temperature _____ °F	absolute " <u>29.49</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) <u>39.21</u>	pitor coef. <u>0.</u>
	%H ₂ O (initial) <u>5.0</u>	meter volume, CF

Orifice 1.000"
Run 3.068

final 24.80
start 15.80
9.00 + 0.20 Ba

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp °F	Orifice Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry Test °F	Orifice ΔH, "H ₂ O
	1535	107	--	--				111	
	1545	107	--	10.7				114	
	1555	107	--	14.4				116	
	1600	107	--	13.7				116	
	1605	end test							
Avg. ACFM		12.9	Avg. BCFM 11.7		Avg. BDCFM 10.3		Sp. Gr. 1.31		
Acfm determinations one minute each, five second interval averages.									
Average 30 min		107	XXXX	12.9	XXXX	XXXX	XXXXX	114	

DATA AND RESULTS:

S to C.C. 2-9 Date 7/31/80 Hr. 1535

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grb.	H2O	111	100	11
#2 Lg. Grb.	H2O	100	100	0
#3 Sm. Grb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				14

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	26.62	25.63	0.99	
MeCl2	57.21	56.05	1.16	
backup filter				
probe wash				
(condensables)				
			2.15	

Gas Composition:

CO₂ 77.0 %vol(dry)
 O₂ 0.0 " "
 CO -- " "
 N₂ 23.0 " "
 H₂O 11.5 " "

Total
 MW (wet) 37.66
 Excess air _____ %
 Sampled volume 8.22 SDCF
 Isokinetic rate _____ %

Dust grainloading:

C_o 4.03 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.36 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-2-9 Date 7/31/80 Time 1535 hrs1.03% C₁ @ 5000X = 681.02% C₃ @ 5000X = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE	.				
METHANE	1.0	100,000	55	16.7	
ETHYLENE					
ETHANE	1.41	1000	10	0.33	0.16
PROPYLENE					
PROPANE	1.00	100	20	0.025	0.018
BUTENES					
BUTANES	0.77	100	12	0.011	0.013
PENTENES					
PENTANES	0.63	100	87	0.068	0.070
> n-PENTANE	0.50	200	254	0.314	0.44
CARBON MONOXIDE	—	—	—		

SDCFM = 10.3

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.75 % Vol excl. C₁0.71 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

5 to C.C. 2-9 Date 7/31/80 Hr. 1730

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grb.	H2O	120	100	20
#2 Lg. Grb.	H2O	100	100	0
#3 Sm. Grb.	H2O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				23

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net mgram	Co
Vial	27.86	25.61	2.25	
MeCl2 EXT	56.58	55.98	0.60	
backup filter				
probe wash				
(condensables)				
Total			2.85	

Gas Composition:

CO₂ 76.0%vol(dry)
 O₂ 1.0 " "
 CO -- " "
 N₂ 23.0 " "
 H₂O 7.8 " "

MW (wet) 38.46
 Excess air _____ %
 Sampled volume 12.52 SDCF
 Isokinetic rate _____ %

Dust grainloading:

C_o 3.50 grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.43 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type Cc-2-9 Date 7/31/80 Time 17301.03% C₁ @ 5000X = 681.02% C₂ @ 5000X = 16.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	100000	54	16.4	
ETHYLENE					
ETHANE	1.41	100000	0.3	0.52	0.35
PROPYLENE					
PROPANE	1.00	100	25	0.031	0.031
BUTENES					
BUTANES	0.77	100	16	0.015	0.020
PENTENES					
PENTANES	0.63	100	95	0.074	0.120
> n-PENTANE	0.50	200	177	0.219	0.425
CARBON MONOXIDE	—	—	—		

SDCFM = 14.3

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.86% vol excl C₁0.95 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron
Unit: CC-4-32

Date: 8-1-80

Ambient	Duct	Sampling
barometric pressure <u>29.37</u> "Hg	static pressure <u>0.0</u> "H ₂ O	nozzle i.d. _____ mm
ambient temperature <u>105</u> °F	absolute " <u>29.37</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) _____	pitot coef. <u>0.</u>
Orifice 2.260"	%H ₂ O (initial) _____	meter volume, CF _____
Pipe Size 3.068"		

final 53.10
start 39.60
13.50 + 0.20 Bag

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp °F	Head Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry Test °F	Orifice ΔH, "H ₂ O
	1200	105						112	
	1210	105	--	74.5				115	
	1220	105		73.2				115	
	1230	109		76.5				112	
	1242	END TEST							
ACFM determinations one minute each, five second interval averages. Sp. Grav. of gas 1.074									
Negative flows noted during test									
Average	45 min	106	XXXX	74.7	XXXX	XXXX	XXXXX	114	

DATA AND RESULTS:

S to CC-4-32 Date 8-1-80 Hr. 1200 hrs

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg	H ₂ O	120	100	20
#2 Lg. Grnbrg	"	100	100	0
#3 Sm. Grnbrg	H ₂ O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				23

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Oil Fraction	41.03	25.75	15.28	
MeCl ₂ Ext.	57.72	56.03	1.69	
backup filter				
probe wash				
(condensables)				
			16.97	

Gas Composition:

CO₂ 22.2 %vol(dry)
 O₂ 15.3 " "
 CO " "
 N₂ 62.5 " "
 H₂O 8.1 "

Total MW (wet) 31.01
 Excess air _____ %
 Sampled volume 12.20 SDCF
 Isokinetic rate _____ %

Dust grainloading: ACFM 74.7 SCFM 67.3 SDCFM 61.8

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 11.36 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-4-32 Date 8/1/80 Time 12001.03% C₁ @ 5000X = 731.02% C₂ @ 5000X = 16

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	6.5	3.7	
ETHYLENE					
ETHANE	1.41	500	2.5	0.022	0.066
PROPYLENE					
PROPANE	1.0	100	5	0.006	0.027
BUTENES					
BUTANES	0.77	100	7	0.007	0.039
PENTENES					
PENTANES	0.63	100	24	0.019	0.136
> n-PENTANE	0.50	200	345	0.440	3.70
CARBON MONOXIDE	—	—	—		

SDCF¹² = 61.8

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.49% vol excl. C₁3.97 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

Client: Chevron Oil
Unit: CC-4-32

Date: 8-1-80

Ambient	Duct	Sampling
barometric pressure <u>29.34</u> "Hg	static pressure <u>0</u> "H ₂ O	nozzle i.d. _____ mm
ambient temperature <u>105</u> °F	absolute " <u>29.34</u> "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) _____	pitor coef. <u>0.</u>
	%H ₂ O (initial) _____	meter volume, CF
		final <u>65.88</u>
		start <u>55.60</u>
		<u>10.28</u> + <u>0.20</u> BA

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp °F	Head Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry Test °F	Orifice ΔH, "H ₂ O
	1315							112	
	1325	132		83.5				115	
	1335	134		70.9				115	
	1345	136		59.9					
	1350	END OF TEST							
ACFM determinations one minute each, five second interval averages. Sp. Grav. of gas 1.097									
Some negative flows were noticed during this test.									
Average	35 min	134	XXXX	71.4	XXXX	XXXX	XXXXX	114	

DATA AND RESULTS:

S to CC-4-52 Date 8-1-80 Hr. 1315

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 LG. Grnbrg	H ₂ O	128	100	28
#2 LG. Grnbrg	"	100	100	0
#3 Sm. Grnbrg	H ₂ O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125	3
Total				31

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Oil Fraction	46.04	25.71	20.33	
MeCl ₂ Ext.	57.22	56.04	1.18	
backup filter				
probe wash				
(condensables)				
			Total 21.51	

Gas Composition:

CO₂ 33.0 %vol(dry)
 O₂ 13.0 " "
 CO _____ " "
 N₂ 54.0 " "
 H₂O 13.5 "

MW (wet) 31.66
 Excess air _____ %
 Sampled volume 9.33 SDCF
 Isokinetic rate _____ %

Dust grainloading: ACFM 71.4 SCFM 61.3 SDCFM 53.1

Co _____ grains/SDCF @ _____ °F and 29.92"Hg

C _____ grains/SDCF @ _____

Emission Rate:

E.R. 16.2 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-4-32 Date 8/1/80 Time 13151.03% C₁ @ 5000X = 731.02% C₃ @ 5000X = 16

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE					
METHANE	1.0	10,000	21.8	6.15	
ETHYLENE					
ETHANE	1.41	200	2	0.007	0.018
PROPYLENE					
PROPANE	1.00	100	13	0.017	0.061
BUTENES					
BUTANES	0.77	100	22	0.022	0.105
PENTENES					
PENTANES	0.63	100	72	0.058	0.35
> n-PENTANE	0.5	200	493	0.629	4.54
CARBON MONOXIDE	—	—	—		

SDCFM = 53.1

Total light hydrocarbons C *ppm vol. (dry)
as carbon C *ppm (dry)Total olefins C ppm as Carbon ppm0.73 % vol. excl. C₁5.07 lb/hr excl. C₁

*methane neglected

HYDROGEN SULFIDE

Ref: EPA Method 11

Sampling Procedure

The sampling apparatus consisted of a Teflon line connected to an empty k.o. trap, silica gel drying tube, diaphragm pump and dry gas meter. The first gas absorber was charged with 35 mls of cadmium sulfate with hydroxide suspension and the second gas absorber was charged with 25 mls of cadmium sulfate with hydroxide suspension, 125 grams of silica gel was used in the drying tube. The entire train with the exception of the silica gel was immersed in ice.

Sampling rate was unknown during sampling of 80-100% water sites. The rate was controlled by watching the first gas absorber bubble as the volume appearing on the meter was probably the air head-space of the train. $V_m(\text{std})$ was calculated on these sites by liquid volume increase on a wet basis.

Sampling rate was kept between 0.02 and 0.03 on the dry sites and meter temperature was monitored. Due to the high concentrations experienced on some sites, sampling duration was controlled by expenditure of the cadmium. At the end of the sampling period, air was drawn through the absorbers for the sampling purge of the same duration as the test period.

Analytical Procedure

On completion of the purge, the gas absorbers contents were combined in an Erlenmeyer flask. A volume of acidified standard potassium triiodide was used to rinse the remaining sample into the Erlenmeyer flask. Distilled H_2O washes were used to rinse the gas absorbers clean into the Erlenmeyer flask. The Erlenmeyer flask contents were back-titrated to a starch endpoint with standard sodium thio-sulfate. A blank was carried along with the analysis.

Calculation

Symbol Identification:

subscripts m, std, bar denote meter, standard condition and barometric
subscripts I and T denote potassium triiodide and sodium thiosulfate

V = volume, cubic feet

T = temperature, °R

P = pressure, "Hg

v = liquid volume, milliliters

N = normality, equivalents/liter

C = concentration, ppm volume dry or gr/SDCF

E.R. = lbs/hr

Equations

$$V_m(\text{std}) = V_m \cdot \frac{T(\text{std})}{T_m} \cdot \frac{P_{\text{bar}}}{P_{\text{std}}}$$

$$\text{WET BASIS: } V_m(\text{std}) = \frac{\text{liquid volume(mls)} - \text{ml char}}{18 \cdot 1.19}$$

$$C, \text{ ppm} = \frac{(v \cdot N)_I - (v \cdot N)_T \text{ sample} - (v \cdot N)_I - (v \cdot N)_T \text{ blank}}{V_m(\text{std})}$$

* 418 @ 60^o F standard

* 426 @ 70^o F standard

H₂S Data and Results

Standardization:

2 mls 0.318N Sodium Arsenite to 6.35 mls KI₃KI₃ = 0.1002N4 mls 0.1002N KI₃ to 3.5 mls Na S₂O₃NaS₂O₃ = 0.1145NBlank 3.0 mls KI₃ to 3.05 mls NaS₂O₃

Pbar= 29.32

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) wet	ppm(dry)	ppm(wet)	LB/H
7/29	CT-4-3	1030	5	3.90	1.541		28	0.22
		1035	5.5	3.87	3.408		19	0.15
		1225	5.0	2.40	3.968		29	0.22
		1245	5.0	4.40	2.148		9	0.07
		1430	5.0	3.20	2.661		65	0.50
		1440	5.0	3.30	2.381		30	0.23

Pbar= 29.32

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) dry	ppm(dry)	ppm(wet)	LB/H
7/29	3-CC-1	1645	3.5	2.20	0.036	1712	1570	.003
		1650	3.5	2.75	0.054	654	600	.001
		1840	3.5	2.45	0.076	654	600	.001
		1845	3.0	2.10	0.054	842	772	.001

No flow observed after 1845

H₂S Data and Results

Standardization:

2 mls KI₃ to 0.595 mls to 0.318N Sodium ArseniteKI₃ = 0.0946NNaS₂O₃ = 0.1145NBlank 3 mls KI₃ to 3.05 mls S₂O₃

Pbar = 29.40

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) wet	ppm(dry)	ppm(wet)	LB/HF
7/30	CT-1-3	0950	3.5	1.9	2.381		31	0.08
		1000	3.5	2.75	1.167		29	0.07
		1140	3.0	1.30	1.961		43	0.11
		1145	3.0	2.00	1.307		38	0.09
		1315	5.5	3.75	2.241		29	0.07
		1325	5.0	3.10	3.081		25	0.06

Pbar = 29.46

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) dry	ppm(dry)	ppm(wet)	LB/HF
7/30	CC-3-3	1500	3	1.4	0.055	1436	1216	0.044
		1505	3	1.15	0.055	1653	1399	0.054
		1615	4	1.60	0.055	1981	1677	0.064
		1620	4	2.65	0.037	1586	1343	0.052
		1815	3	1.25	0.055	1566	1326	0.051
		1835	3	1.35	0.055	1479	1252	0.041

H₂S Data and Results

Standardization:
 2 mls KI₃ to 0.595 mls to 0.318N Sodium Arsenite
 KI₃ = 0.0946N
 NaS₂O₃ = 0.1145N
 Blank 3 mls KI₃ to 3.05 mls S₂O₃

Pbar = 29.50

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) wet	ppm(dry)	ppm(wet)	LB/HI
7/31	CT-2-4	0945	3	0.55	1.03		116	1.09
		0955	4	2.05	0.84		104	0.98
		1150	4	2.15	0.61		135	1.27
		1205	4	1.98	0.84		108	1.02
		1330	4	1.20	1.03		124	1.17
		1335	4	2.30	0.79		95	0.90

Pbar = 29.50

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) dry	ppm(dry)	ppm(wet)	LB/HI
7/31	CC-2-9	1525	6	1.35	0.027	7407	6692	0.49
		1530	6	2.90	0.041	3068	2772	0.20
		1625	6	3.50	0.045	2157	1949	0.14
		1630	6	2.75	0.036	3694	3338	0.24
		1825	5	2.2	0.032	3742	3381	0.25
		1830	5	2.0	0.032	4042	3652	0.27

H₂S Data and Results

Standardization:
 2mls KI₃ to 0.583 mls to 0.318N Sodium Arsenite
 KI₃ = 0.0929N
 3mls KI₃ to 2.5 mls NaS₂O₃
 NaS₂O₃ = 0.1071N
 Blank 4 mls 0.0929N KI₃ to 4.04 mls 0.1071N NaS₂O₃

Pbar = 29.37

Date	Site	Time	mls KI ₃	mls NaS ₂ O ₃	Vm(std) dry	ppm(dry)	ppm(wet)	LB/
8/1	CC-4-32	1100	3.00	1.05	0.027	3519	3139	1.0
		1105	3.50	2.05	0.036	1935	1726	0.5
		1300	3.0	1.60	0.081	869	775	0.2
		1305	3.0	1.90	0.068	838	748	0.2
		1445	3.0	1.20	0.077	1147	1023	0.3
		1455	3.0	1.65	0.081	847	751	0.2

FIELD DATA SOURCE TEST

Prepared for Chevron USA
Rt. 1 Box 222-A
Bakersfield, Calif. 93308

Attention: Mike Kelley

Regarding: Steam Testing

Regulatory Agency KCAPCD

Purpose Compliance

Test Date 8/4/80 - 8/12/80

Unit Tested: CC-1-9 303 CC-3-32 327
CC-3-2 306 CC-2-32 325
CC-1-5 313 CC-1-32 325
CT-2-5 316 CC-2-31 326
CT-3-5 315 CC-1-27 326
CC-1-31 327 CT-167 318
CC-3-31 325 CC-36W-1 31

Report Number: A-992

Reviewed By: Margaret Allerton
CHEMECOLOGY CORP.

Tom Stricker

SELECTED RESULTS
SUMMARY

Lb/Hr Recovery Lb/Hr Loss

<u>Site</u>	<u>Date</u>	<u>Time</u>	<u>HQ HC</u>	<u>LT HC</u>	<u>HQ HC</u>	<u>Total</u>	<u>% Eff.</u>
CC-1-9	8/4	1015	187.0	1.77	3.08	4.85	97
		1115	187.0	2.22	1.92	4.14	98
CC-3-2	8/4	1500	neg	0.026	0.043	0.069	1/
		1840	neg	0.016	0.048	0.064	
CC-1-5	8/5	1125	226.7	19.5	108.1	127.6	64
		1245	226.7	22.4	120.0	142.4	61
CT-2-5	8/5	1550	202.8	31.0	251	282	42
		1650	202.8	13.8	202	215.8	48
CT-3-5	8/6	1100	53.8	0.75	28.1	28.85	65
		1205	53.8	1.51	29.8	31.31	63
CC-1-31	8/6	1425	41.6	1.76	11.7	13.46	76
		1525	41.6	0.81	11.6	12.41	77
CC-3-31	8/7	0925	24.5	8.6	504	512.6	5
		1025	24.5	10.3	425	435.3	5
CC-3-32	8/7	1315	44.5	0.12	0.047	0.167	99.6
		1410	44.5	0.30	0.140	0.44	99.0
CC-2-32	8/8	1030	79.8	0.022	0.036	0.058	99.9
		1200	79.8	0.050	0.044	0.094	99.9
CC-1-32	8/8	1425	110.6	0.061	0.093	0.154	99.9
		1540	110.6	0.075	0.102	0.177	99.9
CC-2-31	8/11	0950	119.4	1.89	34.8	36.69	76
		1050	119.4	1.14	44.2	45.34	72
CC-1-27	8/11	1430	59.5	2.81	5.76	8.57	87
		1545	59.5	1.28	8.67	9.95	86
CT-16Z	8/12	1050	34.0	4.49	97.1	101.6	25
		1200	34.0	1.21	82.3	83.5	29
CC-36U-1	8/12	1550	328.0	0.92	2.89	3.81	99
		1705	328.0	1.90	2.55	4.45	99

1/ Negative uptake in recovery tank. Unable to calculate % Efficiency.

TANK COLLECTION SUMMARY

Site	INITIAL		FINAL		AVERAGE		Tank Area (IN) ²	sp.gr.	lb/hr
	Date Time	HC HT	Date Time	HC HT	Inches	Mins.			
CC-1-9	8/4	4	8/4	5 $\frac{15}{16}$	2.06	200	9633	0.870	187.0
	0855	3 $\frac{3}{4}$	1215	6 $\frac{1}{16}$					
		4	5 $\frac{15}{16}$						
	3.92 = AVG		5.98 = AVG						
CC-3-2	8/4	24 $\frac{1}{16}$	8/4	23 $\frac{1}{4}$	-0.08	180	9633	0.84	?
	1430	25 $\frac{15}{16}$	1730	23 $\frac{3}{4}$					
		24 $\frac{1}{4}$		24 $\frac{1}{4}$					
				24 $\frac{1}{2}$					
		24.08 = AVG		24.00 = AVG					
C-1-5	8/5	12 $\frac{3}{16}$	8/5	13 $\frac{5}{8}$	1.21	260	26770	0.84	226.7
	0900	12 $\frac{7}{16}$	1320	13 $\frac{5}{8}$					
		12 $\frac{3}{4}$		13 $\frac{3}{4}$					
	12.46 = AVG		13.67 = AVG						
CT-2-5	8/5	9 $\frac{1}{8}$	8/5	11 $\frac{1}{2}$	2.38	240	9633	0.98	202.8
	1405	9	1805	11 $\frac{1}{2}$					
		9		11 $\frac{1}{4}$					
	9.04 = AVG		11.42 = AVG						

Site	INITIAL		FINAL		AVERAGE		Tank Area (IN) ²	sp. gr.	lb/hr
	Date Time	HC HT	Date Time	HC HT	Inches	Mins.			
CT-3-5	8/6	3 $\frac{1}{8}$	8/6	3 $\frac{7}{8}$	0.775	275	9633	0.915	53.8
	0900	3 $\frac{1}{8}$	1335	3 $\frac{9}{16}$					
		3 $\frac{1}{8}$		4 $\frac{1}{4}$					
		3.125 = AVG		3.9 = AVG					
CC-1-31	8/6	9 $\frac{3}{8}$	8/6	9	0.375	160	9633	0.850	41.6
	1430	8 $\frac{1}{4}$	1710	9					
		8 $\frac{1}{4}$		9					
		8.625 = AVG		9.0 = AVG					
CC-3-31	8/7	0	8/7	$\frac{1}{4}$	0.25	180	9633	0.844	24.5
	0845	0	1145	$\frac{1}{4}$					
		0		$\frac{1}{4}$					
		0							
CC-3-32	8/7	16	8/7	16 $\frac{5}{16}$	0.43	170	9633	0.842	44.5
	1240	16	1530	16					
		15 $\frac{3}{4}$		16 $\frac{3}{4}$					
		15.92 = AVG		16.35 = AVG					

INITIAL

FINAL

AVERAGE

Site	Date Time	HC HT	Date Time	HC HT	Inches	Mins.	Tank Area (IN) ²	sp.gr.	lb/hr
2-32	8/8	4 $\frac{1}{16}$	8/8	5 $\frac{7}{8}$	1.25	270	9633	0.840	79.8
	0845	4 $\frac{1}{16}$	1315	5 $\frac{7}{8}$					
		4 $\frac{5}{8}$		5 $\frac{15}{16}$					
		4.67 = AVG		5.90 = AVG					
CC-1-32	8/8	8 $\frac{7}{8}$	8/8	10	1.08	170	9633	0.834	110.6
	1350	9 $\frac{1}{8}$	1640	10 $\frac{1}{4}$					
		9		10					
		9 = AVG		10.08 = AVG					
CC-2-31	8/11	7 $\frac{3}{4}$	8/11	9 $\frac{3}{16}$	1.35	210	9633	0.890	119.4
	0855	7 $\frac{1}{2}$	1225	9					
		7 $\frac{7}{8}$		9					
		7.71 = AVG		9.06 = AVG					
3-1-27	8/11	0	8/11	9 $\frac{1}{2}$	10.06	130	380.1	0.933	59.5
	1320	0	1530	9 $\frac{3}{4}$					
		0		10 $\frac{1}{2}$					
				10 $\frac{1}{2}$					
				10.06 = AVG					

DATA AND RESULTS:

S to CC 1-9 Date 8-4-80 Hr. 1015

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	117	100	17
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty	0	0.0	
drying tube	silica gel	128		3
				20

Filter Sample: Type: _____ Total water collected _____

	Final Wt	Tare Wt	Net gram	Co
Vial #150	29.20	24.90	4.3	
MeCl ₂ Ext.	58.54	56.17	2.37	
			6.67	

(condensables)

Gas Composition:

CO₂ 60 %vol(dry)
 O₂ 1 " "
 CO _____ " "
 N₂ 39 " "
 H₂O 9.62 "

Total MW (wet) 35.75
 Excess air _____ %
 Sampled volume 8.69 SDCF
 Isokinetic rate _____ %

grainloading:

Co 11.8 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 3.08 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.
 C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-9 Date 8/4/80 Time 10151.03% C₁ @ 5000X = 831.06% C₃ @ 5000X = 21

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	42.5	21.1	-
ETHYLENE					
ETHANE	1.41	2,000	10.5	0.30	0.43
PROPYLENE					
PROPANE	1.0	100	36.0	0.036	0.076
BUTENES					
BUTANES	0.77	100	16.0	0.012	0.033
PENTENES					
PENTANES	0.63	100	48.0	0.031	0.11
> n-PENTANE	0.5	100	534	0.270	1.12
CARBON MONOXIDE	-	-	-		

SDCFM = 30.4

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 1.77

*methane neglected

DATA AND RESULTS:

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	118	100	18
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125.0	4
Total				22

Filter Sample: Type: _____

Vial #150

MeCl₂ Ext.

Final Wt	Tare Wt	Net gram	Co
27.80	25.08	2.72	
57.86	56.05	1.81	
Total		4.53	

Gas Composition:

CO₂ 34.5 %vol(dry)O₂ 11 " "CO " "N₂ 64.5 " "H₂O 9.57 " "

Total

MW (wet) 32.07Excess air %Sampled volume 9.62 SDCFIsokinetic rate %

grainloading:

Co 7.25 grains/SDCF @ 60 °F and 29.92" HgC grains/SDCF @

Emission Rate:

E.R. 1.92 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: Rate: SCFM (dry)QO₂ = / (QO₂ - QCO₂) = / See supplemental calcs.C grains/SDCF corrected for no auxillary fuelE.R. lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-9 Date 8/4/80 Time 11151.03% C₁ @ 5000 X = 831.06% C₃ @ 5000 X = 21

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol.	lb/hr
STD. PROPANE	.				
METHANE	1.0	200,000	43.2	21.4	-
ETHYLENE					
ETHANE	1.41	2,000	18.0	0.51	0.75
PROPYLENE					
PROPANE	1.0	100	31.0	0.031	0.066
BUTENES					
BUTANES	0.77	100	12.0	0.009	0.025
PENTENES					
PENTANES	0.63	100	44.7	0.029	0.102
> n-PENTANE	0.5	100	606	0.306	1.28
CARBON MONOXIDE	-	-	-	3.	

SDCFM = 30.8

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 2.22

*methane neglected

DATA AND RESULTS: 300-2 1500

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	120	100	20
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	128	125.0	3
Total				23

Filter Sample: Type: _____

Vial	Final Wt	Tare Wt	Net gram	Co
	33.85	24.95	8.90	
MeCl ₂ Ext.	57.52	56.51	1.01	
			9.91	

Gas Composition:

CO₂ 38.5 %vol(dry)
 O₂ 4.5 " "
 CO " "
 N₂ 57.0 " "
 H₂O 7.54 " "

Total

MW (wet) 33.11

Excess air _____ %

Sampled volume 13.04 SDCF

Isokinetic rate _____ %

grainloading:

C_o 11.7 grains/SDCF @ 60 °F and 29.92"Hg

C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.043 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type 3-CC-2 Date 8/4/80 Time 15001.03% C₁ @ 5000X = 821.06% C₃ @ 5000X = 21

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE	.				
METHANE	1.0	200,000	32.6	16.2	-
ETHYLENE					
ETHANE	1.41	2,000	3.5	0.100	0.002
PROPYLENE					
PROPANE	1.0	100	28.0	0.028	8.4*10 ⁻⁴
BUTENES					
BUTANES	0.77	100	15.6	0.012	4.7*10 ⁻⁴
PENTENES					
PENTANES	0.63	100	147	0.095	0.0046
> n-PENTANE	0.5	100	627	0.316	0.018
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 0.429

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.026

*methane neglected

DATA AND RESULTS:

S to 3CC-2 Date 8-4-80 Hr. 1840

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	123	100	23
#2 Lg. Grnbrg.	H ₂ O	102	100	2
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				29

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
	35.0	25.20	9.80	
MeCl ₂ Ext.	57.35	56.00	1.35	
backup filter				
probe wash				
(condensables)				
			Total	11.15

Gas Composition:

CO₂ 41.5 % vol (dry)
 O₂ 3.5 " "
 CO _____ " "
 N₂ 55 " "
 H₂O 9.89 "

MW (wet) 33.12
 Excess air _____ %
 Sampled volume 12.22 SDCF
 Isokinetic rate _____ %

grainloading:

Co 14.0 grains/SDCF @ _____ °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.048 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type 3CC-2 Date 8/4/80 Time 18401.03% C₁ @ 5000X = 831.06% C₃ @ 5000X = 21

COMPONENT	RESPONSE	ATTENUATION	AREA	%VOL	LB/HR
STD. PROPANE					
METHANE	1.	200000	30	14.9	-
ETHYLENE					
ETHANE	1.41	2000	2	0.057	0.0011
PROPYLENE					
PROPANE	1.00	100	16	0.016	4.4*10 ⁻⁴
BUTENES					
BUTANES	0.77	100	12	0.016	3.2*10 ⁻⁴
PENTENES					
PENTANES	0.63	100	60	0.038	0.0017
> n-PENTANE	0.50	100	425	0.215	0.012
CARBON MONOXIDE	-	-	-		

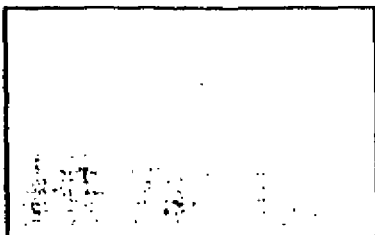
Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr excl C₁ = 0.016

*methane neglected

Date: 8-5-80 Run: 1
 Client: Chevron
 Unit: CC 1-5
 Meter: # Orifice:
 Leak rate .002 CFM
 ck. vacuum: 7 "Hg
 Nozzle: # 11 i.d. 11 mm
 Pitot: # 1 C 0.75
 Train: # Filter: #



Stack Cross Section

Temp ambient: 90
 Pressure bar: 29.34 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.34 "Hg
 %H₂O initial: 21.52
 %H₂O ambient: 44
 MW initial: 28.67
 Temp Unit: #

Trav. Point	Time	Duct Data			Sample Train			Meter Data			Volume CF
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F	Orifice ΔH, "H ₂ O	
2	1125	156	.01	5.48				98			125.65
3	1130	156	.02	7.76				05			
4	1135	156	.02	7.76				100			
5	1140	156	.02	7.76				100			
6	1145	156	.02	7.76				100			
7	1150	156	.02	7.76				100			
	1155	end test									134.34
		Duct area 0.82 sq. ft.									
		ACFM 363									
		SCFM 300									
		SDCFM 205									
Total 30 min.											
Average		156		7.38				Avg 99	Avg		

Recorded by: _____

DATA AND RESULTS:

Site CC 1-5 Date 8-5-80 Hr. 1125

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	169	100	69
#2 Lg. Grnbrg.	H ₂ O	106	100	6
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty	0	0.0	0
drying tube	silica gel	129.5	125	4.5
Total				79.5

Filter Sample: Type: _____ water collected

Vial
 MeCl₂ Ext.
 (condensables)

Final Wt	Tare Wt	Net gram	Co
47.70	25.30	22.4	
65.24	56.00	9.24	
		31.64	

Gas Composition:

CO₂ 65.0 %vol(dry)
 O₂ 0.5 " "
 CO _____ " "
 N₂ 34.5 " "
 H₂O 31.79 "

Total MW (wet) 31.93
 Excess air _____ %
 Sampled volume 7.93 SDCF
 Isokinetic rate 103 %

grainloading:

C_o 61.4 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 108.1 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)
 Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.
 C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-5 Date 8/5/80 Time 11251.03% C₁ @ 5000X = 91.81.06% C₃ @ 5000X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	36.1	16.2	-
ETHYLENE					
ETHANE	1.41	2,000	5	0.146	1.42
PROPYLENE					
PROPANE	1.0	100	29	0.030	0.43
BUTENES					
BUTANES	0.77	100	41	0.033	0.62
PENTENES					
PENTANES	0.63	100	54	0.036	0.84
> n-PENTANE	0.5	2,000	56	0.58	16.2
CARBON MONOXIDE	-	-	-		

SDCFM = 205

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

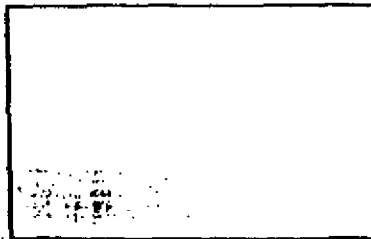
Total olefins O _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 19.5

*methane neglected

CHEMECOLOGY CORPORATION
RTICULATE MONITOR DATA & RESULT

Date: 8-5-80 Run: 2
 Client: Chevron
 Unit: CC 1-5
 Meter: # _____ Orifice: _____
 Leak rate .003 CFM
 "ck.vacuum: 7 "Hg
 Nozzle: # 11 i.d. 11 mm
 Pitot: # 1 C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 05
 Pressure bar: 29.31 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.31 "Hg
 %H₂O initial: 21.52
 %H₂O ambient: 35
 MW initial: 28.67
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
2	1245	156	.02	7.76				100			134.36
3	1248	156	.02	7.76				100			
4	1251	156	.02	7.76				105			
5	1254	160	.02	7.78				105			
6	1257	160	.02	7.78				105			
7	1300	160	.02	7.78				105			
	1303	End test								139.48	
		Duct area 0.82 Sq. Ft.									
		ACFM	382								
		SCFM	315								
		SDCFM	192								
Total 18 min.								Avg	Avg		
Average		158		7.77				Avg	103		

Recorded by: _____

DATA AND RESULTS:

5 to CC 1-5 Date 8-5-80 run#2 Hr. 1245

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	158	100	58
#2 Lg. Grnbrg.	H ₂ O	102	100	2
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty	0	0.0	
drying tube	silica gel	126.5	125	1.5
Total				61.5

Filter Sample: Type: _____ water collected

Vial
MeCl₂ Ext.

Final Wt	Tare Wt	Net gram	Co
44.70	25.31	19.39	
58.18	56.00	2.18	
		22.57	

(condensables)

Gas Composition:

CO₂ 61 %vol(dry)
 O₂ 2 " "
 CO _____ " "
 N₂ 37 " "
 H₂O 38.18 "

Total
 MW (wet) 30.27
 Excess air _____ %
 Sampled volume 4.63 SDCF
 Isokinetic rate 106 %

grainloading:

Co 71.7 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 120.0 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.
 C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-5 Date 8/5/80 Time 12451.03% C₁ @5000 X = 91.81.06% C₃ @5000 X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	33	14.8	-
ETHYLENE					
ETHANE	1.41	2,000	5.0	0.148	1.35
PROPYLENE					
PROPANE	1.0	100	26	0.027	0.36
BUTENES					
BUTANES	0.77	100	35.5	0.028	0.49
PENTENES					
PENTANES	0.63	100	42	0.028	0.61
> n-PENTANE	0.5	100	1456	0.75	19.6
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 192

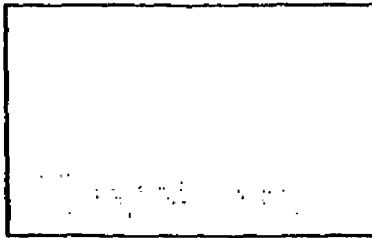
Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 22.4

*methane neglected

Date: 8-5-80 Run: 1
 Client: Chevron
 Unit: CT 2-5
 Meter: # _____ Orifice: _____
 Leak rate 000 CFM
 "ck. vacuum: 10 "Hg
 Nozzle: # _____ i.d. 4.5 mm
 Pitot: # 1. C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 05
 Pressure bar: 29.34 "Hg
 Pressure static: -0.54 "H₂O
 Pressure abs: 29.31 "Hg
 %H₂O initial: 95.4
 %H₂O ambient: 32
 MW initial: 18.85
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
2	1550	212	1.4	83.66				105			140.215
3	1553	212	1.5	86.59				105			
4	1556	212	1.5	86.59				105			
5	1559	212	1.7	92.73				105			
6	1602	212	1.7	92.19				105			
7	1605	212	1.7	92.19				105			
	1608	End test									140.725
		ACFM	4380								
		SCFM	3320								
		SDEFM	123								
Total 18 min.								Avg	Avg		
Average		212		80.0				Avg 105			510

Recorded by: _____

DATA AND RESULTS:

S to CT 2-5 Date 8-5-80 Hr. 1550

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	313	100	213
#2 Lg. Grnbrg.	H ₂ O	82	100	-18
#3 Sm. Grnbrg.	H ₂ O	10	50	-40
liquid trap	empty	0	0.0	
drying tube	silica gel	129	125	4
Total				259

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	28.30	25.30	3.00	
MeCl ₂ Ext	60.20	56.02	4.18	
backup filter				
probe wash				
(condensables)				
			Total	7.18

Gas Composition:

CO₂ 53.5 %vol(dry)
 O₂ 0 " "
 CO 0 " "
 N₂ 46.5 " "
 H₂O 96.3 "

MW (wet) 18.68
 Excess air _____ %
 Sampled volume 460 SDCF
 Isokinetic rate 100 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

251
 E.R. 251 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)
 QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supp-
 imental calcs.
 C _____ grains/SDCF corrected for no auxillary fuel
 E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-2-5 Date 8/5/80 Time 15501.03% C₁ @ 5000X = 91.81.06% C₃ @ 5000X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	28	12.6	-
ETHYLENE					
ETHANE	1.41	1,000	43	0.063	0.37
PROPYLENE					
PROPANE	1.0	100	7	0.007	0.060
BUTENES					
BUTANES	0.77	100	7½	0.006	0.068
PENTENES					
PENTANES	0.63	100	42.5	0.028	0.392
> n-PENTANE	0.5	100	3485	1.80	30.1
CARBON MONOXIDE	-	-	-		

SOCFM = 123

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 31.0

*methane neglected

DATA AND RESULTS:

Site CT 2-5 Date 8-5-80 Hr. 1650

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	343	100	243
#2 Lg. Grnbrg.	H ₂ O	158	100	58
#3 Sm. Grnbrg.	H ₂ O	15	50	-35
liquid trap	empty	0	0,0	
drying tube	silica gel	129.5	125	4.5
Total				270.5

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	29.45	25.25	4.20	
MeCl ₂ Ext.	58.00	56.00	2.00	
backup filter				
probe wash				
(condensables)				
Total			6.20	

Gas Composition:

CO₂ 68.5 %vol(dry)
 O₂ 5 " "
 CO _____ " "
 N₂ 31 " "
 H₂O 96.0 "

MW (wet) 18.84
 Excess air _____ %
 Sampled volume 52 SDCF
 Isokinetic rate 107 %

grainloading:

C_o _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 202 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-2-5 Date 8/5/80 Time 16501.03% C₁ @ 5000X = 91.81.06% C₃ @ 5000X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol.	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	33.2	14.9	-
ETHYLENE					
ETHANE	1.41	2,000	3	0.087	0.54
PROPYLENE					
PROPANE	1.0	100	12	0.012	0.11
BUTENES					
BUTANES	0.77	100	5	0.004	0.048
PENTENES					
PENTANES	0.63	100	44	0.029	0.43
> n-PENTANE	0.5	100	1402	0.72	12.7
CARBON MONOXIDE	-	-	-	-	-

SOCFM = 130

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

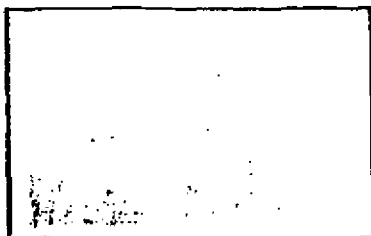
Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 13.8

*methane neglected

PARTICULATE MONITOR DATA & RESULTS

Date: 8-6-80 Run: 1
 Client: Chevron
 Unit: CT 3-5
 Meters: # _____ Orifices: _____
 Leak rate .005 CFM
 " ck. vacuum: 10 "Hg
 Nozzle: # _____ i.d. 7 mm
 Pitot: # 1 C
 Trains: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 90
 Pressure bar: 29.42 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.42 "Hg
 %H₂O initial: 82.69
 %H₂O ambient: 44
 MW initial: 20.41
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
6	1100	207	.26	34.45				105			144.37
5	1105	207	.18	28.67				105			
4	1110	207	.14	25.28				105			
3	1115	207	.16	27.03				105			
2	1120	207	.16	27.03				105			
7	1125	207	.18	28.67				105			
	1130	End test									146.43
		Average ACEM		335							
		SCEM		257		Area	0196				
		SDCEM		25.7							
<p>Flow at this site was very erratic. A six inch diameter stack was constructed and used for this test due to the very low flow to obtain usable velocities for isokinetic sampling. Isokinetic sampling was performed but it must be realized that true isokinetic conditions are impossible to obtain in this case due to the erratic flow. Delta P_s reported by the sampler and used in the isokinetic calculations are point estimations within the observed delta P range of 0.20 to 0.36.</p>											
Total 30 min.								Avg	Avg		
Average		207		28.52				Avg 105			2.06

Recorded by: _____

DATA AND RESULTS:

Site CT 3-5 Date 8-6-80 Hr. 1100

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	395	100	295
#2 Lg. Grnbrg.	H ₂ O	175	100	75
#3 Sm. Grnbrg.	H ₂ O	18	50	-32
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
				346

Filter Sample: Type: _____ Total water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	36.10	24.85	11.25	
MeCl ₂ Ext.	59.65	56.00	3.65	
backup filter				
probe wash				
(condensables)				
			14.90	

Gas Composition:

CO₂ 24 %vol(dry)
 O₂ 1.8 " "
 CO _____ " "
 N₂ 74.2 " "
 H₂O 90 " "

Total MW (wet) 19.45
 Excess air _____ %
 Sampled volume 1.86 SDCF
 Isokinetic rate 109 %

grainloading:

Co _____ grains/SDCF @ 60 °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 28.1 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-3-5Date 8/6/80Time 11001.03% C₁ @ 5000X = 991.06% C₃ @ 5000X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	48.1	20.0	-
ETHYLENE					
ETHANE	1.41	2000	4	0.11	0.13
PROPYLENE					
PROPANE	1.0	100	5.5	0.005	0.009
BUTENES					
BUTANES	0.77	100	1.0	0.0007	0.002
PENTENES					
PENTANES	0.63	100	17.8	0.011	0.032
> n-PENTANE	0.5	100	347	0.167	0.58
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 25.7

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.75 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

S to CT 3-5 Date 8-6-80 Hr. 1205

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	365	100	265
#2 Lg. Grnbrg.	H ₂ O	140	100	40
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128.5	125	3.5
Total				308.5

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	34.63	25.25	9.38	
MeCl ₂ Ext.	61.56	56.00	5.56	
backup filter				
probe wash				
(condensables)				
			14.94	

Gas Composition:

CO₂ 24 %vol(dry)
 O₂ 3 " "
 CO _____ " "
 N₂ 74.2 " "
 H₂O 87 " "

Total MW (wet) 19.84
 Excess air _____ %
 Sampled volume 2.19 SDCF
 Isokinetic rate 104 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 29.8 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CI-3-5 Date 8/6/80 Time 12051.03% C₁ @ 5000 = 99 1.06% C₃ @ 5000X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOL	lb/hr
STD. PROPANE					
METHANE	1.0	100000	96	20.0	-
ETHYLENE					
ETHANE	1.41	1000	6	0.082	0.13
PROPYLENE					
PROPANE	1.00	100	7.5	0.007	0.016
BUTENES					
BUTANES	0.77	100	1.0	0.0007	0.002
PENTENES					
PENTANES	0.63	100	15	0.009	0.033
> n-PENTANE	0.5	100	627	0.302	1.33
CARBON MONOXIDE	-	-	-		

SDCFM = 32.5

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

1.51 lb/hr exc. C₁

*methane neglected

DATA AND RESULTS:

Site CC 131 Date 8-6-80 Hr. 1425

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnrg.	H ₂ O	192	100	92
#2 Lg. Grnrg.	H ₂ O	103	100	3
#3 Sm. Grnrg.	H ₂ O	47	50	-3
liquid trap	empty	0	0.0	
drying tube	silica gel	129	125	4
Total				102

Filter Sample: Type: _____ water collected _____

Vial	Final Wt	Tare Wt	Net gram	Co
MeCl ₂ Ext.	80.25	50.30	29.95	
backup filter	58.10	53.25	4.85	
probe wash				
(condensables)				
			Total	34.80

Gas Composition:

CO₂ 88 %vol(dry)
 O₂ 1 " "
 CO _____ " "
 N₂ 11 " "
 H₂O 34.5 " "

MW (wet) 33.12
 Excess air _____ %
 Sampled volume 9.045 SDCF
 Isokinetic rate _____ %

grainloading:

Co 59.3 grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 11.7 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supp-
 limental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-31Date 8/6/80Time 142514251.03% C₁ @ 500GX = 991.06% C₃ @ 5000W = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE	.				
METHANE	1.0	200,000	18	7.5	-
ETHYLENE					
ETHANE	1.41	2000	1	0.027	0.030
PROPYLENE					
PROPANE	1.00	100	9	0.009	0.014
BUTENES					
BUTANES	0.77	100	7	0.005	0.011
PENTENES					
PENTANES	0.63	100	40.6	0.025	0.066
> n-PENTANE	0.5	100	1081	0.521	1.64
CARBON MONOXIDE	-	-	-		

O₂ = 23.1

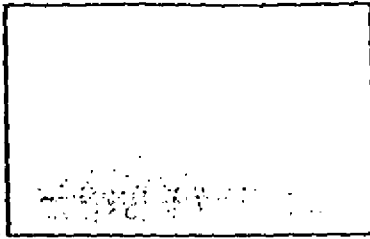
Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

1.76 lb/hr exc. methane

*methane neglected

Date: 8-6-80 Run: 1
 Client: Chevron
 Unit: CC 131
 Meter: # _____ Orifice: _____
 Leak rate .002 CFM
 "ck.vacuum: 10 "Hg
 Nozzle: # _____ i.d. _____ mm
 Pitot: # 1. C
 Train: # _____ Filter: # _____



Temp ambient: 29.42
 Pressure bar: 29.42 "Hg
 Pressure static: -0.15 "H₂O
 Pressure abs: 29.4 "Hg
 %H₂O initial: _____
 %H₂O ambient: _____
 MW initial: 33.11
 Temp Unit: # _____

Stack Cross Section

av. ant	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry in °F	Test out °F	Orifice ΔH, "H ₂ O	Volume CF
	1525	175		45.1				110			151.55
	1530	175		43.6				110			
	1535	175		42.0				110			
	1540	175		44.3				110			
	1545	175		38.6				110			
	1550	175		38.2				110			
	1555	175		46.6				110			
	1600	175		43.6				110			
	1605	175		46.6				110			
	1610	175		45.1				110			
	1615	End test									165.45
		Average ACFM		45.4							
		SCFM		36.5							
		SDCFM		24.3							
		Flow was somewhat erratic with occasional negative flow.									
		Orifice 2.260									
		Run 3.068									
		min.									
		Average									
								AVE	AVE		13.90
								AVE			BAG + 0.10
											14.00

Recorded by: _____

DATA AND RESULTS:

Site CC 131 Date 8-6-80 Hr. 1525

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	234	100	134
#2 Lg. Grnbrg.	H ₂ O	102	100	2
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	0
drying tube	silica gel	128	125	3
Total				139

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	91.03	50.10	40.93	
MeCl ₂ Ext.	60.53	56.00	4.53	
backup filter				
probe wash				
(condensables)				
			45.46	

Gas Composition:

CO₂ 80 %vol(dry)
 O₂ 2 " "
 CO _____ " "
 N₂ 18 " "
 H₂O 33.4 "

Total MW (wet) 33.11
 Excess air _____ %
 Sampled volume 12.56 SDCF
 Isokinetic rate _____ %

grainloading:

Co 55.7 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 11.6 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-1-31 Date 8/6/80 Time 15251.03% C₁ @ 5000X = 991.06 C₃ @ 5000X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	17.8	7.4	-
ETHYLENE					
ETHANE	1.41	100	1.0	0.0014	0.002
PROPYLENE					
PROPANE	1.00	100	8.0	0.0077	0.013
BUTENES					
BUTANES	0.77	100	4.5	0.0033	0.007
PENTENES					
PENTANES	0.63	100	19.0	0.012	0.033
> n-PENTANE	0.50	100	472	0.227	0.75
CARBON MONOXIDE	-	-	-	-	-

SOCFM = 24.3

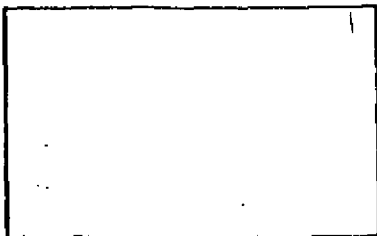
Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.81 lb/hr exc. C₁

*methane neglected

Date: 8-7-80 Run: 1
 Client: Chevron
 Unit: CC 3-31
 Meter: # _____ Orifice: _____
 Leak rate 000 CFM
 "ck.vacuum: 8 "Hg
 Nozzle: # _____ i.d. 7 mm
 Pitot: # 1 C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 90
 Pressure bar: 29.30 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.30 "Hg
 %H₂O initial: 88.26
 %H₂O ambient: 45
 MW initial: 20.98
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
7	0925	207	.17	27.53				105			175.10
6	0930	207	.18	28.33				105			
5	0935	207	.18	28.33				105			
4	0940	207	.16	26.71				105			
3	0945	207	.16	26.71				105			
2	0950	207	.18	28.33				105			
	0955	End Test.									177.255
		Average ACFM			1361						
					SCFM	1040					
					SDCFM	127					
Total 30 min.								Avg	Avg		
Average								Avg	105		2.155

Recorded by: _____

DATA AND RESULTS:

Site CC 3-31 Date 8-7-80 Hr. 0925

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	374	100	274
#2 Sm. Grnbrg.	H ₂ O	160	100	60
#3 Lg. Grnbrg.	H ₂ O	15	50	-35
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				302

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	101.25	50.38	50.87	
MeCl ₂ Ext.	64.10	56.13	7.97	
backup filter				
probe wash				
(condensables)				
Total			58.84	

Gas Composition:

CO₂ 96 %vol(dry)
 O₂ .5 " "
 CO _____ " "
 N₂ 3.5 " "
 H₂O 87.8 " "

MW (wet) 21.09
 Excess air _____ %
 Sampled volume 1.94 SDCF
 Isokinetic rate 101 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 504 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-3-31 Date 8/7/80 Time 09251.03% C₁ @ 5000X = 75.11.06% C₃ @ 5000X = 16.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE					
METHANE	1.0	200000	10.6	5.8	-
ETHYLENE					
ETHANE	1.41	100	12	0.021	0.13
PROPYLENE					
PROPANE	1.00	100	8.8	0.011	0.097
BUTENES					
BUTANES	0.77	100	13	0.013	0.151
PENTENES					
PENTANES	0.63	100	20	0.016	0.231
> n-PENTANE	0.5	100	739	0.466	8.0
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 127

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

8.6 lb/hr excl. C₁

*methane neglected

CHEMECOLOGY CORPORATION
 PARTICULATE MONITOR DATA & RESULT

Date: 8-7-80 Run: 2
 Client: Chevron
 Unit: CC 3-31
 Meter: # _____ Orifice: _____
 Leak rate 000 CFM
 "ck.vacuum: 10 "Hg
 Nozzle: # _____ i.d. 7 mm
 Pitot: # _____ C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 05
 Pressure bar: 29.30 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.30 "Hg
 %H₂O initial: 88.26
 %H₂O ambient: 41
 MW initial: 20.98
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data		Volume CF
		Temp. °F	Head Ap	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry in °F	Test out °F	
7	1025	207	.12	23.13				105		177.36
6	1028	207	.12	23.13				105		
5	1031	207	.14	24.99				105		
4	1034	207	.12	23.13				105		
3	1037	207	.12	23.13				105		
2	1040	207	.12	23.13				105		
	1043	End test								178.34
		Average			ACFM	1153				
					SCFM	.880				
					SDCFM	.93.3				
Total 18 min.				23.44				Avg	Avg	
Average								Avg 105		.975

Recorded by: _____

DATA AND RESULTS:

S to CC 3-31 Date 8-7-80 Hr. 1025

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	252	100	152
#2 Lg. Grnbrg.	H ₂ O	105	100	5
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				160

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
80.00	51.00	29.00		
MeCl ₂ Ext.	57.55	56.08	1.47	
backup filter				
probe wash				
(condensables)				
Total			30.47	

Gas Composition:

CO₂ 97 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 3 " "
 H₂O 89.4 "

MW (wet) 20.70
 Excess air _____ %
 Sampled volume .88 SDCF
 Isokinetic rate 104 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 425 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-3-31 Date 8/7/80 Time 10251.03% C₁ @ 5000X = 75.1 1.06% C₃ @ 5000X = 16.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% volume	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	23.2	6.4	-
ETHYLENE					
ETHANE	1.41	100	12	0.021	0.093
PROPYLENE					
PROPANE	1.0	100	9	0.011	0.071
BUTENES					
BUTANES	0.77	100	14	0.014	0.120
PENTENES					
PENTANES	0.63	100	32	0.026	0.276
> n-PENTANE	0.50	100	1219	0.769	9.76
CARBON MONOXIDE	-	-	-		

SDCFM = 93.3

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

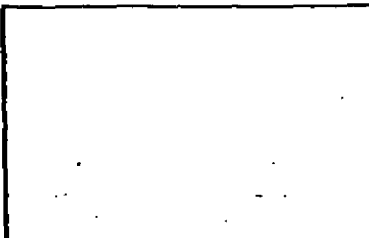
Total olefins C _____ ppm as Carbon _____ ppm

lb/hr = 10.3 exc. C₁

*methane neglected

CHEMECOLOGY CORPORATION
RTICULATE MONITOR DATA & RESULT

Date: 8-7-80 Run: 1
 Client: Chevron
 Unit: CC 3-32
 Meter: # _____ Orifice: .758
 Leak rate 000 CFM
 "ck.vacuum: 8 "Hg
 Nozzle: # _____ i.d. _____ mm
 Pitot: # 1 C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 95
 Pressure bar: 29.30 "Hg
 Pressure static: _____ "H₂O
 Pressure abs: 29.30 "Hg
 %H₂O initial: _____
 %H₂O ambient: _____
 MW initial: _____
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data			
		Temp. °F	Head Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry in	Test °F out	Orifice ΔH, "H ₂ O	Volume CF
	1315	120						110			178.45
	1330	120		1.84				110			
	1345	120		1.92				110			
	1347	End test									188.73
		Average ACFM		1.88							10.27
		SCFM		1.65						BAG	+ 0.20
		SDCFM		1.42							
Two one minute determinations of the flow were performed. Orifice 0.758 Run 3.068 Delta P range 0 to 0.22 observed.											
								Avg	Avg		
Total 32 min.								Avg			
Average											

Recorded by: _____

DATA AND RESULTS:

Site CC 3-32 Date 8-7-90 Hr. 1315

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	121	100	21
#2 Lg. Grnbrg.	H ₂ O	103	100	3
#3 Sm. Grnbrg.	H ₂ O	5	0	5
liquid trap	empty		0.0	
drying tube	silica gel	128.5	125	3.5
Total				32.5

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	27.07	25.06	2.01	
MeCl ₂ Ext.	56.34	56.00	.34	
backup filter				
probe wash				
(condensables)				
			2.35	

Gas Composition:

CO₂ 86 %vol(dry)
 O₂ 1 " "
 CO _____ " "
 N₂ 13 " "
 H₂O 13.9 "

Total MW (wet) 38.49
 Excess air _____ %
 Sampled volume 9.36 SDCF
 Isokinetic rate _____ %

grainloading:

Co 3.86 grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .047 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-3-32 Date 8/7/80 Time 13151.03% C₁ @ 5000X = 75.11.06% C₃ @ 5000X = 16.8

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100000	5.8	1.6	-
ETHYLENE					
ETHANE	1.41	100	6.0	0.011	7.4*10 ⁴
PROPYLENE					
PROPANE	1.00	100	4.8	0.006	5.9*10 ⁴
BUTENES					
BUTANES	0.77	100	8.0	0.0078	0.001
PENTENES					
PENTANES	0.63	100	26.5	0.021	0.003
> n-PENTANE	0.50	100	936	0.591	0.114
CARBON MONOXIDE	-	-	-		

FM = 1.42

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.12 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

S to CC 3-32 Date 8-7-80 Hr. 1410

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	123	100	23
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
				Total
				26

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	34.52	25.24	9.28	
Me Cl ₂ Ext.	57.10	56.00	1.10	
backup filter				
probe wash				
(condensables)				
			Total	
			10.38	

Gas Composition:

CO₂ 86 %vol(dry)
 O₂ 1 " "
 CO _____ " "
 N₂ 13 " "
 H₂O 7.0 " "

MW (wet) 40.13
 Excess air _____ %
 Sampled volume 16.02 SDCF
 Isokinetic rate _____ %

grainloading:

Co 9.98 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .140 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-3-32 Date 8/7/80 Time 14101.03% C₁ @ 5000X = 75.1 1.06% C₃ @ 5000X = 16.8

COMPONENT	RESPONSE	ATTENUATION	AREA	%volume	lb/hr
STD. PROPANE	.				
METHANE	1.0	100,000	30.8	8.4	-
ETHYLENE					
ETHANE	1.41	100	33	0.059	0.0046
PROPYLENE					
PROPANE	1.00	100	24	0.030	0.0034
BUTENES					
BUTANES	0.77	100	45	0.044	0.0066
PENTENES					
PENTANES	0.63	100	100	0.081	0.015
> n-PENTANE	0.5	5000	384	1.21	0.27
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 1.64

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

0.30 lb/hr exc. C₁

*methane neglected

DATA AND RESULTS:

S to CC 2-32 Date 8-8-80 Hr. 0905

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbg.	H ₂ O	1711	100	711
#2 Lg. Grnbg.	H ₂ O	70	100	-30
#3 Sm. Grnbg.	H ₂ O	15	50	-35
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				9

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	26.82	25.26	1.56	
MeCl ₂ Ext.	56.60	56.00	.60	
backup filter				
probe wash				
(condensables)				
Total			2.16	

Gas Composition:

CO₂ 30 %vol(dry)
 O₂ 16 " "
 CO _____ " "
 N₂ 54 " "
 H₂O 3.02 "

MW (wet) 32.97
 Excess air _____ %
 Sampled volume 13.43 SDCF
 Isokinetic rate _____ %

grainloading:

Co 2.48 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .013 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

S to CC 2-32 Date 8-8-80 Hr. 1030

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	125	100	25
#2 Lg. Grnbrg.	H ₂ O	115	100	15
#3 Sm. Grnbrg.	H ₂ O	52	50	2
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				45

Filter Sample: Type: _____ water collected

Vial	Final Wt	Tare Wt	Net gram	Co
Vial	34.30	25.32	8.98	
MeCl ₂ Ext.	57.00	56.00	1.00	
backup filter				
probe wash				
(condensables)				
			Total 9.98	

Gas Composition:

CO₂ 92 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 8 " "
 H₂O 11.31 "

MW (wet) 39.92
 Excess air _____ %
 Sampled volume 16.40 SDCF
 Isokinetic rate _____ %

grainloading:

Co 9.37 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .036 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-2-32 Date 8/8/80 Time 10301.03% C₁ @ 100² X = 52.11.06% C₃ @ 50² X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE	.				
METHANE	1.0	100,000	27.5	5.4	-
ETHYLENE					
ETHANE	1.41	100	10.5	0.14	0.0029
PROPYLENE					
PROPANE	1.0	100	54.5	0.053	0.0016
BUTENES					
BUTANES	0.77	100	94	0.070	0.0028
PENTENES					
PENTANES	0.63	100	122	0.075	0.0038
> n-PENTANE	0.5	500	76	0.183	0.011
CARBON MONOXIDE	-	-	-	.	

SOCFM = 0.442

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.022

*methane neglected

Date: 8-8-80 Run: 2
 Client: Chevron
 Unit: CC 2-32
 Meter: # _____ Orifice: _____
 Leak rate .005 CFM
 "ck.vacuum: 5 "Hg
 Nozzle: # _____ i.d. _____ mm
 Pitot: # 1 C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 95
 Pressure bar: 29.32 "Hg
 Pressure static: -.05 "H₂O
 Pressure abs: 29.32 "Hg
 %H₂O initial: _____
 %H₂O ambient: _____
 MW initial: 39.66
 Temp Unit: # _____

Trav. point	Time	Duct Data		Sample Train			Meter Data			
		Temp. °F	Head Δp	ACFM	Probe °F	Filter °F	Gas to Pump °F	Dry Test in °F out	Orifice ΔH, "H ₂ O	Volume CF
	1200							105		242.63
	1215	110		.5612				105		
	1230	104		.6093				105		
	1245	104		.7185				105		
	1300	End Test								260.77
		Average ACFM		.6597						18.14
		SCFM		.5937					BAG	+0.20
		SDCFM		.5310						18.34
Orifice 0.375		Run 3.068		Run 3 replaces the omitted run 1						
Total 60 min.		Average 106						Avg Avg	105	

Recorded by: _____

DATA AND RESULTS:

S to CC 2-32 Date 8-8-80 Hr. 1200

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	130	100	30
#2 Lg. Grnbrg.	H ₂ O	105	100	5
#3 Sm. Grnbrg.	H ₂ O	53	50	3
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				42

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	33.17	25.42	7.75	
MeCl ₂ Ext.	58.53	56.00	2.53	
backup filter				
probe wash				
(condensables)				
			10.28	

Gas Composition:

CO₂ 88.5 %vol (dry)
 O₂ 1.5 " "
 CO _____ " "
 N₂ 10 " "
 H₂O 10.56 "

Total MW (wet) 39.66
 Excess air _____ %
 Sampled volume 16.54 SDCF
 Isokinetic rate _____ %

grainloading:

Co 9.57 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 0.044 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-2-32 Date 8/8/80 Time 12001.03% C₁ @ 100² X = 52.11.06% C₃ @ 50² X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	26.4	5.2	-
ETHYLENE					
ETHANE	1.41	1,000	8.5	0.12	0.0030
PROPYLENE					
PROPANE	1.0	100	51	0.049	0.0018
BUTENES					
BUTANES	0.77	100	88.8	0.066	0.0032
PENTENES					
PENTANES	0.63	100	114	0.070	0.0042
> n-PENTANE	0.5	500	218	0.525	0.038
CARBON MONOXIDE	-	-	-		

SDCFM = 0.531

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.050

*methane neglected

DATA AND RESULTS:

S to GT 1-32 Date 8-8-80 Hr. 1425

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	140	100	40
#2 Lg. Grnbrg.	H ₂ O	104	100	4
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				47

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	80.25	50.83	29.42	
MeCl ₂ EXT.	57.62	56.00	1.62	
backup filter				
probe wash				
(condensables)				
			31.04	

Gas Composition:

CO₂ 93 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 7 " "
 H₂O 11.78 "

Total MW (wet) 39.95
 Excess air _____ %
 Sampled volume 16.35 SDCF
 Isokinetic rate _____ %

grainloading:

Co 29.24 grains/SDCF @ _____ °F and 29.92"Hg

C _____ grains/SDCF @ _____

Emission Rate:

E.R. .093 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-1-32 Date 8/8/80 Time 14251.03% C₁ @ 10000X = 52.11.06% C₃ @ 5000X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE	.				
METHANE	1.0	100,000	16.4	3.2	-
ETHYLENE					
ETHANE	1.41	100	38	0.052	9.1*10 ⁻⁴
PROPYLENE					
PROPANE	1.0	100	33	0.032	8.2*10 ⁻⁴
BUTENES					
BUTANES	0.77	100	88	0.065	0.0022
PENTENES					
PENTANES	0.63	100	153	0.094	0.0039
> n-PENTANE	0.5	100	2205	1.06	0.053
CARBON MONOXIDE	-	-	-	-	-

SDCFM = 0.369

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.061

*methane neglected

DATA AND RESULTS:

S to GC 1-32 Date 8-8-80 Hr. 1540

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	117	100	17
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				21

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	41.40	25.44	15.96	
MeCl ₂ Ext.	59.00	56.00	3.00	
backup filter				
probe wash				
			Total	18.96

(condensables)

Gas Composition:

CO₂ 95 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 5 " "
 H₂O 9.55 "

MW (wet) 40.79
 Excess air _____ %
 Sampled volume 9.25 SDCF
 Isokinetic rate _____ %

grainloading:

Co 31.56 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .102 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-1-32 Date 8/8/80 Time 15451.03% C₁ @ 10000X = 52.11.06% C₃ @ 5000X = 22

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	17.1	3.4	-
ETHYLENE					
ETHANE	1.41	100	37	0.050	8.9*10 ⁻⁴
PROPYLENE					
PROPANE	1.0	100	36	0.035	9.2*10 ⁻⁴
BUTENES					
BUTANES	0.77	100	95	0.070	0.0024
PENTENES					
PENTANES	0.63	100	161	0.099	0.0042
> n-PENTANE	0.5	500	542	1.31	0.067
CARBON MONOXIDE	-	-	-		

SDCFM = .376

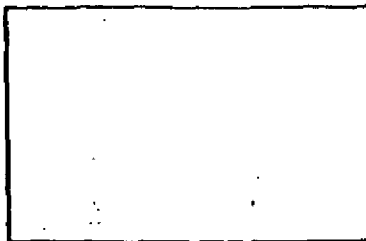
Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.075

*methane neglected

Date: 8-11-80 Run: 1
 Client: Chevron
 Unit: CC 2-31
 Meter: # Orifice:
 Leak rate .005 CFM
 "ck.vacuum: 10 "Hg
 Nozzle: # i.d. 11 mm
 Pitot: # 1. C .75
 Train: # Filter: #



Stack Cross Section

Temp ambient: 90
 Pressure bar: 29.50 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.50 "Hg
 %H₂O initial: 71.80
 %H₂O ambient: 37
 MW initial: 24.20
 Temp Unit: #

Trav. Point	Time	Duct Data			Sample Train			Meter Data		
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry Test in °F out	Orifice ΔH, "H ₂ O	Volume CF
7	0950	197	.02	8.73				05		289.30
6	0955	197	.02	8.73				05		
5	1000	197	.02	8.73				05		
4	1005	197	.02	8.73				05		
3	1010	197	.02	8.73				95		
2	1015	197	.02	8.73				95		
	1020	End Test								295.44
		Average ACFM 102								
		SCFM 79.6								6.14
		SDCFM 33.7								
		Duct area 0.196Sq. Ft.								
Total 30 min.		197		8.73				AVG	AVG	
Average								AVG		

Recorded by: _____

DATA AND RESULTS:

Site CC 2-31 Date 8-11-80 Hr. 0950

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	262	100	162
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				165

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	92.55	50.73	41.82	
MeCl ₂ Ext.	58.20	56.00	2.20	
backup filter				
probe wash				
(condensables)				
Total			44.02	

Gas Composition:

CO₂ 75 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 25 " "
 H₂O 57.65 "

MW (wet) 27.32
 Excess air _____ %
 Sampled volume 5.63 SDCF
 Isokinetic rate _____ %

grainloading:

C_o 120.4 grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 34.8 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-2-31 Date 8/11/80 Time 09501.03% C₁ @ 10000X = 53.11.06% C₃ @ 10000X = 11.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	29.9	11.6	-
ETHYLENE					
ETHANE	1.41	2,000	1.8	0.047	0.075
PROPYLENE					
PROPANE	1.0	100	6.8	0.006	0.014
BUTENES					
BUTANES	0.77	100	5.8	0.004	0.012
PENTENES					
PENTANES	0.63	100	17.5	0.010	0.038
> n-PENTANE	0.5	100	830	0.383	1.75
CARBON MONOXIDE	-	-	-		

SDCFM = 33.7

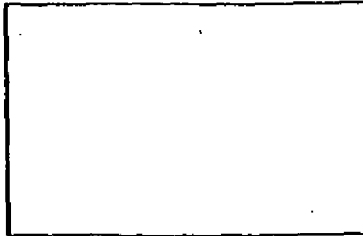
Total light hydrocarbons C _____ *ppm vol. (dr.
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 1.89

*methane neglected

Date: 8-11-80 Run: 2
 Client: Chevron
 Unit: CC 2-31
 Meter: # _____ Orifice: _____
 Leak rate 0.000 CFM
 "ck.vacuum: 10 "Hg
 Nozzle: # _____ i.d. 11 mm
 Pitot: # 1. C
 Train: # _____ Filter: # _____



Stack Cross Section

Temp ambient: 90
 Pressure bar: 29.30 "Hg
 Pressure static: 0 "H₂O
 Pressure abs: 29.30 "Hg
 %H₂O initial: 71.80
 %H₂O ambient: 34
 MW initial: 24.20
 Temp Unit: # _____

Trav. Point	Time	Duct Data			Sample Train			Meter Data		Volume CF
		Temp. °F	Head Δp	Velocity ft/sec	Probe °F	Filter °F	Gas to Pump °F	Dry Test in °F out	Orifice ΔH, "H ₂ O	
7	1050	190	.04	12.27				95		295.96
6	1055	190	.04	12.27				95		
5	1100	190	.02	8.68				95		
4	1105	190	.02	8.68				95		
3	1110	190	.02	8.68				95		
2	1115	190	.02	8.68				95		
End Test										301.56
Average ACFM 116										5.60
SCFM 91.1										
SDCFM 34.6										
Total 30 min. 190										
Average										9.89
										Avg
										Avg 95

Recorded by: _____

DATA AND RESULTS:

Sit CC 2-31
 Hour: 1050
 Date: 8-11-80

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	300	100	200
#2 Lg. grnbrg.	H ₂ O	112	100	12
#3 Sm. Grnbrg.	H ₂ O	15	50	-35
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				180

Filter Sample: Type: _____

	Final Wt	Tare Wt	Net gram	Co
Vial	98.75	51.20	47.55	
MeCl ₂ Ext.	58.00	56.00	2.00	
backup filter				
probe wash				
Total			49.55	

Gas Composition:

CO₂ 68.5 %vol(dry)
 O₂ 1.5 " "
 CO _____ " "
 N₂ 30 " "
 H₂O 62 " "

MW (wet) 25.99
 Excess air _____ %
 Sampled volume 5.13 SDCF
 Isokinetic rate 95 %

grainloading:

Co 148.7 grains/SDCF @ 60 °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 44.2 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-2-31 Date 8/11/80 Time 10501.03% C₁ @ 10000X = 53.11.06% C₃ @ 10000X = 11.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	29	11.3	-
ETHYLENE					
ETHANE	1.41	1,000	3.0	0.0390	0.064
PROPYLENE					
PROPANE	1.0	100	7.4	0.0068	0.016
BUTENES					
BUTANES	0.77	100	2.0	0.0014	0.004
PENTENES					
PENTANES	0.63	100	22	0.013	0.051
> n-PENTANE	0.5	100	462	0.213	1.00
CARBON MONOXIDE	-	-	-	.3	

SDCFM = 34.6

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 1.14

*methane neglected



Input 1
5/4/80
E.P.

FIELD DATA SOURCE TEST

Prepared for Chevron, USA
2525 W. Chester
OILDALE, CALIF. 93302

Attention: _____

Regarding: _____

Regulatory Agency KCAPCD

Purpose Compliance

Test Date November 13, 14, 15, 16, 20, 21, 22, 1978

Unit Tested: Casing Collection Systems

Report Number: a-661

Reviewed By: [Signature]
CHEMECOLOGY CORP.

SUMMARY (SELECTED RESULTS)

SITE	DATE	TIME	LB/HR RECOVERY			LB/HR LOSS			% EFFICIENCY
			Lt. HC	Liquid HC=	TOT.	lt HC	liquid HC=	TOT.	
MC 1 4008315A	11/13	1205	27.8	700	728	27.8	81.6	109	87
		1540	18.5	700	719	18.5	67.6	86	89
4008331	11/14/0920		1.6	163	164	0.9	1.6	2.5	98
		1132	3.5	163	166	2.8	3.5	6.3	96
MC 5 4008315	11/15	0930	0.8	25	26	0.8	4.0	4.8	84
		1035	0.8	25	26	0.8	5.4	6.3	80
39 4008313A	11/15	1355	1.2	531	532	1.2	3.3	4.5	99
		1420	0.8	531	532	0.8	2.3	3.1	99
4008316	11/16	1235	4.3	8.5	13	4.3	300	304	4
		1420	0.8	8.5	9	0.8	274	275	3
31 4008325	11/20	0930	4.0	983	987	4.0	24.6	29	97
		1100	6.4	983	989	6.4	25.0	31	97
4 4008323	11/20	1415		98	98	<0.001	0.004	0.004	99.9
		1600		98	98	"	0.003	0.003	99.9
4 4008322	11/21	0930	2.3	127	129	2.3	52	54	70
		1110	1.6	127	129	1.6	49	51	72
3 4008333	11/21	1550	0.1	19.6	20	0.12	21	21	49
		1715	0.2	19.6	20	0.23	20	20	50
3 4008311	11/22	0945	1.3	140	141	1.3	234	235	38
		1330	1.2	140	141	1.2	83	84	63

TANK COLLECTION VOLUME DETERMINATION

After tank pump down, a thief sample collection pipe was lowered through a hole in the tank roof and allowed to descend gently through the hydrocarbon/water layers until it contacted the tank floor. After contact with the floor, the trap door at the bottom of the thief was released and the sample withdrawn from the tank and placed in a like manner. The samples were taken in triplicate at both the beginning and end of the timed period.

CALCULATIONS:

$$\begin{aligned} \text{bbl/day} &= \frac{(\Delta v \text{ cc})(A_T \text{ in}^2)(24 \text{ pf/day})(60 \text{ min/hr})(7.048052 \text{ gal/ft}^3)}{(\text{minutes})(A_t \text{ in}^2)(42 \text{ gal/bbl})(12 \text{ in/ft})^3 (2.54 \text{ cm/in})^3} \\ &= K = \text{constant} = 9.05733 \times 10^{-3} \end{aligned}$$

$$\text{bbl/day} = \frac{\Delta v \text{ cc} * \text{Area Tank (inches)}}{\text{minutes} * \text{area thief (inches)}} * K$$

$$\text{lb/hr} = \frac{\text{bbl/day} * 42 \text{ gal/bbl} * 8.377 \text{ lb/gal} * \text{sp. gr.}}{24 \text{ hr/day}}$$

$$\text{lb/hr} = \text{bbl/day} * 14.5898 * \text{sp. gr.}$$

Area calculations:

$$\text{thief height} = 47.125 \text{ inches}$$

$$\text{thief volume} = 2060 \text{ cc} = 125.70891 \text{ in}^3$$

$$\text{area thief} = \frac{125.70891 \text{ in}^3}{47.125 \text{ in}}$$

$$= 2.668 \text{ sq. inches}$$

DATA AND RESULTS:

SITE	TIME	Initial		Final		Average		(IN) ² AREA TANK	SP.GR.	BBL/DAY	LB/HR	
		MLS H ₂ O	MLS HC	TIME	ML H ₂ O	ML HC	ΔCC					ΔMIN.
CC-1-5	1420	215	115	1535	280	156	47	75	26769.9	0.842	57.0	700
		200	122		290	169						
		200	122		286	167						
CC-4-32	0850	410	120	1230	900	211	89	220	9633	0.842	13.2	163
		410	121		820	206						
		405	119		spilled							
CT-3-5	0845	380	23	1705	1000	53	30	500	9633	0.877	2.0	25
		375	24		1010	53						
		370	21									
CC-1-9	1615	-	150	1642	-	190	33	27	9633	>0.91 ^{1/}	40.0	531
			140		175							
CT-2-5	1005	380	265	1340	600	274	4	215	9633	0.96	0.61	8.5
		400	270		580	272						
CC-3-31	0915	450	133	1020	700	265	131	65	9633	0.832	81.0	983
		470	129		300	432						
		470	135		800	263						
CT-1-4	1310	70	403	1745	250	434	24	275	26769.9	0.851	7.9	98
		60	415		300	438						
		70	413		300	429						
CT-2-4	0830	210	443	1230 ^{2/}	-	468	26	240	26769.9	0.882	9.8	127
		210	442		-	470						
CT-1-3	1425	1000	152	1735	1200	158	3	190	26769.9	>0.96 ^{1/}	1.4	19.6
			154		1200	159						
			157			159						
CT-5-3	0830	200	258	1225	130	845	72	235	9633	>0.96 ^{1/}	10.0	140
		"	770			850						
			780			845						

1/Very high viscosity HC. Difficult to separate from water phase.

2/Exact time of this final sample not certain. Plus or minus 30 minutes.

DATA AND RESULTS:

Client: Chevron
Unit: CT-1-4

Date: 11/20/78

Ambient	Duct	Sampling
barometric pressure <u>29.42</u> "Hg	static pressure _____ "H ₂ O	nozzle I.D. _____ mm
ambient temperature <u>60</u> °F	absolute " _____ "Hg	orifice k _m _____
relative humidity _____ %	MW (initial) <u>28.75</u>	pitot coef. <u>0</u>
	%H ₂ O (initial) <u>1.8</u>	meter volume, CF
		final <u>250.81</u>
		start <u>229.60</u>
		<u>21.21</u>

Trav. Point	Time	Duct Data		Sample Train			Meter Data		
		Temp °F	Orifice Δp	ACEM c	Probe Q	Filter OF	Gas to Pump OF	Dry Test OF	Orifice ΔH, "H ₂ O
	1600	75	0.005	0.5				68	
	1610	72	0.010	0.8			68		
	1620	70	0.010	0.7			68		
	1630	68	0.010	0.7			66		
	1640	66	0.005	0.5			65		
	1650	64	0.005	0.5			65		
	1700	62	0.00	-			62		
	1710	60	0.00	-			60		
				AVG ACEM = 0.5 & SDCEM = 0.5 @ 1.0 sp. gr.					
Average	70 min	67	XXXX		XXXX	XXXX	XXXXX	66	

DATA AND RESULTS: 11/20/78

CT-1-4; 1600 hrs

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. G.S.	Distilled water	50	50	0
#2 Lg. G.S.	Distilled water	50	50	0
#3 Sm. G.S.	Distilled water	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel		100.0	8
Total				8

Filter Sample: Type: _____

	Final Wt	Tare Wt	Net gram	Co
Vial #1	52.61	51.71	900	
lead filter				
backup filter				
probe wash				
Total			900	

Gas Composition:

CO₂ 0.5 %vol(dry)
 O₂ 20.1 " "
 CO 0 " "
 N₂ 79.4 " "
 H₂O 1.8 "

MW (wet) 28.25
 Excess air _____ %
 Sampled volume 20.62 SDCF
 Isokinetic rate _____ %

Dust grainloading:

SCFM = 0.5

Co _____ grains/SDCF @ _____ °F and 29.92" Hg
 C _____ grains/SDCF @ _____

Emission Rate:

0.0002 bbl/day HC
 0.0018 bbl/day H₂O

E.R. 0.003 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Client: Chevron
Unit: CT- 5-3

Date: 11/22/78

Ambient	Duct	Sampling
barometric pressure <u>29.54</u> "Hg	static pressure <u>29.54</u> "Hg	"H ₂ O nozzle i.d. <u>4.5</u> mm
ambient temperature <u>60</u> °F	absolute " <u>18</u>	orifice k _m <u>0.300</u>
relative humidity _____ %	MW (initial) <u>100</u>	pitot coef. <u>0.82</u>
	%H ₂ O (initial) _____	meter volume, CF _____

internal orifice

final	<u>256.545</u>
start	<u>256.350</u>
	0.195

Trav. Point	Time	Duct Data			Sample Train			Meter Data	
		Temp °F	Head Δp	Velocity ft/sec	ORIFICE °F	Filter °F	Gas to Pump °F	Dry Test °F	Orifice ΔH, "H ₂ O
2	0945	212	0.11	26.1	285		ice	70	0.7
3	0950	213	0.13	28.4	305			72	0.9
4	0955	212	0.14	29.5	243			74	0.8
5	1000	212	0.16	31.5	306			74	1.1
6	1005	212	0.22	37.0	306			76	1.5
6	1010	212	0.22	37.0	305			76	.5
7	1015	212	0.19	34.3	326			78	1.2
8	1020	212	0.14	29.4	288			78	0.9
9	1025	212	0.13	28.4	250			78	0.9
	1030	end of test							
excessive water condensat on made use of magnehelic gauge meaningless for pitot readings. Assumed same flow as velocity profile.									
Average	45 min	212	XXXX	31.3	XXXX	XXXX	XXXXX	75	1.1

DATA AND RESULTS: 11/22/78

CI-5-3: 0945 hrs

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 g. Greenburg	Distilled water	290	50	240
#2 g. Greenburg	Distilled water	50	50	0
#3 Sm. Greenburg	Distilled water	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel		100.0	3
Total				243

Filter Sample: Type: L.A.

	Final Wt	Tare Wt	Net gram	Co
Vial #1	47.04	28.61	18.43	
MeCl ₂ ext.	52.87	52.21	0.66	
backup filter				
probe wash				
			Total	19.09
				sp.gr. = 0.834

Gas Composition:

CO₂ 47.0 %vol(dry)
 O₂ 1.5 " "
 CO — " "
 N₂ 57.5 " "
 H₂O 98.4 "

MW (wet) 18.30

Excess air — %

Sampled volume 0.19 SDCF

Isokinetic rate 103.7%

SCFM = 1060

Dust grainloading:

ACFM = 1260

Co — grains/SDCF @ — °F and 29.92"Hg

C — grains/SDCF @ —

Emission Rate:

E.R. 234 lbs/hr (dry)

19.2 bbl/day HC

203 bbl/day H₂O

Auxillary Fuel: (data supplied by unit operations)

Fuel type: — Rate: — SCFM (dry)

QO₂ = — / — (QO₂ - QCO₂) = — / — See supplemental calcs.

C — grains/SDCF corrected for no auxillary fuel

E.R. — lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type Int. Gas Date 11/22/78 Time 0945 hrs

CT-5-3

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol. C	lb/hr
STD. PROPANE					
METHANE		50,000	38.5	4.6	2.0
ETHYLENE					
ETHANE	1.41	500	18	0.12	0.1
PROPYLENE					
PROPANE		100	37	0.04	0.05
BUTENES					
BUTANES	0.77	100	18	0.01	0.02
PENTENES					
PENTANES	0.638	100	139	0.09	0.2
> n-PENTANE	0.5	500	146	0.4	0.9
CARBON MONOXIDE	—	—	—		

Total light hydrocarbons C 5.26 % vol. (dry)
as carbon C _____ ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

Total lb/hr = 1.27 excluding methane

*methane neglected

DATA AND RESULTS: 11/24/78

CT-5-3; 1330 hrs

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Greenburg	Distilled water	262	50	212
#2 Lg. Greenburg	Distilled water	50	50	0
#3 Sm. Greenburg	Distilled water	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel		100.0	3
Total				215

Filter Sample: Type: L.A.

	Final Wt	Tare Wt	Net mgram	Co
Vial #1	30.31	25.25	5.06	
MeCl ₂ ext.	53.20	52.24	0.96	
backup filter				
probe wash				
			6.02	
Total				

Gas Composition:

CO₂ 46.0%vol(dry)
 O₂ 1.5 " "
 CO - " "
 N₂ 52.5 " "
 H₂O 98.1 "

MW (wet) 18.33Excess air %Sampled volume 0.19 SDCFIsokinetic rate 109.9 %

Dust grainloading:

SCFM = 1060

Co grains/SDCF @ °F and 29.92"HgC grains/SDCF @

Emission Rate:

6.8 bbl/day HC

E.R. 83 lbs/hr (dry) 203 bbl/day H₂O

Auxillary Fuel: (data supplied by unit operations)

Fuel type: Rate: SCFM (dry)Q_{O2} = / (Q_{O2} - Q_{CO2}) = / See supp-
 limental calcs.C grains/SDCF corrected for no auxillary fuelE.R. lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type Int. Gas Date 11/22/78 Time 1330

CT-5-3

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol. C	lb/hr
STD. PROPANE					
METHANE		50,000	38	4.5	2.3
ETHYLENE					
ETHANE	1.41	500	16	0.11	0.09
PROPYLENE					
PROPANE		100	32	0.03	0.05
BUTENES					
BUTANES	0.77	100	16	0.01	0.02
PENTENES					
PENTANES	0.638	200	63	0.08	0.2
> n-PENTANE	0.5	500	127.5	0.3	0.8
CARBON MONOXIDE	—	—	—		

Total light hydrocarbons C 5.03 % vol. (dry)
as carbon C *ppm (dry)

Total olefins C ppm as Carbon ppm

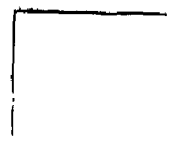
Total lb/hr = 1.16 excluding methane

*methane neglected

Chevron U.S.A.
VOC Offsets

EMISSION PROFILES

WESTERN SOURCE



Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008077A	11/08/79	Retrofit scrubber on existing steam gen.	Cancelled and Replaced by 4008077C 8/15/80						
4008219A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008220A	11/30/79	Scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00	
4008343A	12/06/79	Modification of TEOR Operation	0.00	0.00	0.00	0.00	0.00	0.00	
4008096	12/27/79	T. of L. and correct A to C	0.00	0.00	0.00	0.00	0.00	0.00	
4008385B	02/15/80	Modify TEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008386B	02/15/80	Modify TEOR operation; add fin-fan	0.00	0.00	0.00	0.00	0.00	0.00	
4008225	04/02/80	Substitute steam generator for # 4020001	0.00	0.00	0.00	0.00	0.00	0.00	
4008066	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008069	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008092	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008093	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008094	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008095	04/30/80	62.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008100	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008101	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008150	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008151	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008179	04/30/80	27.5 MM BTU/hr steam generator	This equipment considered as existing as of 9/12/79. See 8/6/81 1						
4008349B	04/30/80	Experimental H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008032A	05/19/80	Retrofit scrubber to 4 existing S. G.s	Cancelled and replaced by 4008032C 7/22/81						
	05/19/80	4008032	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008033	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008080	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008084	-22.51	0.00	0.00	0.00	0.00	0.00	
4008034B	05/19/80	Modify existing scrubber; add 4 SG's	0.00	0.00	0.00	0.00	0.00	0.00	
4008065C	05/19/80	Mod. scrubber serving SG's 065, 078, 079	Cancelled and Replaced by 4008065E 11/14/84						
4008077B	05/19/80	Mod. scrubber serving SG 4008077	Cancelled and Replaced by 4008077C 8/15/80						
4008081B	05/19/80	Retrofit scrubber to 3 existing S. G.s	Cancelled and replaced by 4008081E 7/22/81						
	05/19/80	4008081	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008082	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008083	-22.51	0.00	0.00	0.00	0.00	0.00	
4008085A	05/19/80	Retrofit scrubber to 5 existing S. G.s	Cancelled and replaced by 4008085E 7/22/81						
	05/19/80	4008085	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008086	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008087	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008088	-22.51	0.00	0.00	0.00	0.00	0.00	
	05/19/80	4008089	-22.51	0.00	0.00	0.00	0.00	0.00	
4008091A	05/19/80	Mod. scrubber serving SG 4008091	0.00	0.00	0.00	0.00	0.00	0.00	
4008167	05/19/80	62.5 MM BTU/hr steam generator	Cancelled and replaced by 4008167C 4/10/87						
4008167A	05/19/80	PM/SO2 scrubber	0.00	0.00	0.00	0.00	0.00	0.00	
4008168	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008168B 4/10/87						
4008169	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008169B 4/10/87						
4008170	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008170B 4/10/87						
4008171	05/19/80	62.5 MM BTU/hr C E Natco steam generator	Cancelled and replaced by 4008171C 4/10/87						
4008172	05/19/80	27.5 MM BTU/hr Struthers steam generator	****	****	****	126.72	****	****	
4008173	05/19/80	27.5 MM BTU/hr C E Natco steam generator	****	****	****	126.72	****	****	
4008174	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008174B 4/10/87						
4008175	05/19/80	62.5 MM BTU/hr Struthers steam generator	Cancelled and replaced by 4008175B 4/10/87						

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008088A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008089A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008090A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008092A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008151A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008171A	09/15/80	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008213B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008215B	10/08/80	Flue gas scrubber for Rule 424 compliance	0.00	0.00	0.00	0.00	0.00	0.00
4008317C	10/09/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008318B	10/09/80	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008034C	10/29/80	Retrofit Low-NOx PCC burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077D	11/13/80	O2 analyzer/controller	0.00	0.00	0.00	0.00	0.00	0.00
4008077E	11/15/80	PM/SO2 scrubber substitution	0.00	0.00	0.00	0.00	0.00	0.00
4008350B	02/12/81	TEOR Operation - add H2S scrubber	Cancelled and replaced by 4008350D 9/28/81				0.00	0.00
4008352B	02/12/81	TEOR Operation - add H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008346D	02/13/81	TEOR Operation - add 3 wells	Cancelled and replaced by 4008346E 12/23/81				7.50	0.00
4008349D	02/17/81	TEOR Operation - add 2 wells	0.00	0.00	0.00	0.00	-21.60	0.00
4008026A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008027A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008028A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.32	0.00	0.00
4008070B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008071B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008072B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008073B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008074B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008075B	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008077F	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008078A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008079A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-54.91	0.00	0.00
4008091C	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-96.00	0.00	0.00
4008096A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008097A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008098A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008099A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008102A	02/23/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008213C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008214A	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-84.24	0.00	0.00
4008215C	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008216B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-59.90	0.00	0.00
4008216A	03/11/81	O2 controller for Rule 425 compliance	Cancelled and replaced by 4008218C 2/19/82				0.00	0.00
4008225B	03/11/81	O2 controller for Rule 425 compliance	0.00	0.00	0.00	-50.38	0.00	0.00
4008228A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008249A	04/15/81	Substitute scrubber, add Lo-NOx burner	0.00	0.00	0.00	-84.24	0.00	0.00
4008078B	06/12/81	PM/SO2 Scrubber substitution	Cancelled and replaced by 4008078C				0.00	0.00
4008350C	06/18/81	TEOR Operation - add 1 well	Cancelled and replaced by 4008350D				2.50	0.00
4008317D	07/01/81	TEOR Operation - modify H2S scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008031B	07/22/81	Retrofit scrubber to 2 existing 56's						
		4008031	-22.51	0.00	0.00	0.00	0.00	0.00
		4008090	-22.51	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008095A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008150A	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008184C	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008185B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008186B	11/14/84	Set Rule 424 sulfur limit for this S. G.	0.00	0.00	0.00	0.00	0.00	0.00	
4008384G	12/12/84	Mod. TEOR Operation: add 10 wells	0.00	0.00	0.00	0.00	51.64	0.00	
4008385B	12/12/84	Mod. TEOR Operation: add 18 wells	0.00	0.00	0.00	0.00	2.34	0.00	
4008386G	12/12/84	Mod. TEOR Operation: add 14 wells	0.00	0.00	0.00	0.00	1.82	0.00	
4008377	01/03/85	TEOR Operation serving wells	0.00	0.00	156.00	0.00	179.00	0.00	
4008225C	05/29/85	Limit steam generator fuel consumption	-6.60	-1.90	-14.20	-28.10	-0.50	-2.30	
	05/29/85	Excess Gulf Rule 424 emission reductions		-159.17	-1029.90				
4008318D	06/12/85	Mod. TEOR Operation: add 20 wells	Cancelled and replaced by 4008318D 8/27/85						
4008384H	06/22/85	Mod. TEOR Operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00	
4008814C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008815C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008816C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008817C	06/25/85	Modify cogeneration fuel supply	0.00	0.00	0.00	0.00	0.00	0.00	
4008382	06/28/85	TEOR Operation serving 107 S. D. wells	0.00	0.00	0.00	0.00	219.80	0.00	
4008031D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008031F 4/08/86						
4008032E	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008033C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008080C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008081B	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008082C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008083C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008084C	07/22/85	Revise PM emission sampling limit	-40.30	0.00	0.00	0.00	0.00	0.00	
4008086D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008086F 4/08/86						
4008087D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008087F 4/08/86						
4008088D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008088F 4/08/86						
4008089D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008089F 4/08/86						
4008090D	07/22/85	Revise PM emission sampling limit	Cancelled and replaced by 4008090F 4/08/86						
4008093D	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00	
4008094B	07/22/85	Revise PM emission sampling limit	-20.40	0.00	0.00	0.00	0.00	0.00	
4008814B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008815B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008816B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008817B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-266.60	0.00	0.00	
4008819	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008820	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008821	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
4008822	07/22/85	Natural gas fired cogeneration system	17.13	0.00	1.33	269.08	14.00	168.00	
	07/22/85	Excess Rule 424 sulfur compound reductions		-122.74	-1420.35				
4008066D	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008070E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008071E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008072E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008073E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008074E	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	
4008092B	07/22/85	Retrofit Lo-NOx burner assembly	0.00	0.00	0.00	-96.00	0.00	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008810B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008811B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008812B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008813B	07/22/85	Add water injection NOx control system	0.00	0.00	0.00	-302.00	0.00	0.00
4008819A	07/22/85	Authorise alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008820A	07/22/85	Authorise alternate location	0.00	0.00	0.00	0.00	0.00	0.00
4008823	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008824	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008825	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008826	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008827	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008828	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
4008829	07/22/85	Natural gas fired cogeneration system	17.87	0.00	0.74	242.81	13.97	168.00
40083B4H	07/22/85	Modify TEOR operation: add 1 well	0.00	0.00	0.00	0.00	3.14	0.00
400837B	08/26/85	New TEOR operation # 52 serving 20 wells	0.00	0.00	0.00	0.00	103.62	0.00
4008317F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-81.60	0.00
4008318E	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	69.10	0.00
4008346G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008347D	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-32.80	0.00
4008349G	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-244.70	0.00
4008350F	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-63.20	0.00
4008351C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-42.60	0.00
4008352C	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	-26.00	0.00
4008370A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008375A	08/27/85	Revise TEOR operation's well roster	0.00	0.00	0.00	0.00	0.00	0.00
4008093C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008094C	08/30/85	Relocate steam gen. without scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008379	08/30/85	New TEOR operation serving 20 wells	0.00	0.00	0.00	0.00	62.80	0.00
4008213D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008218D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008219D		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008220B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008225B		Revise auth. emission sampling limits	Withdrawn by applicant 11/07/85					
4008031E	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008031E 4/08/86					
4008032F	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008033D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008065F	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008077H	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008080D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008081H	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008082D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008083D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008084D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008085E	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	Cancelled and replaced by 4008085E 4/08/86					
4008091D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00
4008093D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008094D	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008095B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-192.00	0.00	0.00
4008151B	02/05/86	Install N. A. Model 6131-G Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day	
4008167B	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008167C 4/10/87						
4008168A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008168B 4/10/87						
4008169A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008169B 4/10/87						
4008170A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008170B 4/10/87						
4008171B	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008171C 4/10/87						
4008174A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008174B 4/10/87						
4008175A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008175B 4/10/87						
4008176A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008176B 4/10/87						
4008177B	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008177C 4/10/87						
4008178A	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	Cancelled and replaced by 4008178B 4/10/87						
4008184D	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008185C	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008186C	02/05/86	Install N. A. Model 6131-6 Lo-NOx Burner	0.00	0.00	0.00	-96.00	0.00	0.00	
4008384I	02/20/86	Replace air cooled heat exchanger	0.00	0.00	0.00	0.00	0.00	0.00	
4008070F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008071F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008072F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008073F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008074F	02/25/86	Increase steam gen. HC emission limits	0.00	0.00	0.00	0.00	8.91	0.00	
4008085F	04/08/86	Change of location	0.00	0.00	0.00	0.00	0.00	0.00	
4008031G	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008031F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008085B	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008086F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008087E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008087F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008088E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008088F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008089E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008089F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008090E	04/08/86	Change of location	0.00	0.00	0.00	-96.00	0.00	0.00	
4008090F	04/08/86	Change of location	-40.30	0.00	0.00	0.00	0.00	0.00	
4008451	05/01/86	Tank battery vapor recovery system	0.00	0.00	0.00	0.00	0.00	0.00	
4008092C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008151C	08/14/86	Modify steam generator cond. of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008318F	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	15.24	0.00	
4008347E	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	138.88	0.00	
4008350G	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	19.44	0.00	
4008351D	09/15/86	Modify TEOR operation;	0.00	0.00	0.00	0.00	21.44	0.00	
4008319E	09/26/86	Modify TEOR operation; add 23 wells	0.00	0.00	0.00	0.00	62.36	0.00	
4008349H	10/27/86	Modify TEOR operation; add 12 wells	0.00	0.00	0.00	0.00	37.66	0.00	
4008317H	10/28/86	Modify TEOR operation; add 14 wells	0.00	0.00	0.00	0.00	43.96	0.00	
4008352E	10/28/86	Modify TEOR operation; add 11 wells	0.00	0.00	0.00	0.00	34.54	0.00	
4008027B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008028B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00	
4008031H	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00	
4008032G	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00	
4008033E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00	

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008034E	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.06	0.00	0.00	0.00
4008059C	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008065B	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008066C	04/10/87	Change S. G. conditions of approval	-13.54	0.00	54.01	0.00	0.00	0.00
4008069A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008070B	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008071B	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008072B	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008073B	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008074B	04/10/87	Change S. G. conditions of approval	-14.21	-0.96	78.31	0.00	0.00	0.00
4008075D	04/10/87	Change S. G. conditions of approval	-21.12	-9.92	-37.43	0.00	0.00	0.00
4008077I	04/10/87	Change S. G. conditions of approval	0.00	0.00	71.41	0.00	0.00	0.00
4008078D	04/10/87	Change S. G. conditions of approval	0.00	0.00	23.55	0.00	0.00	0.00
4008079B	04/10/87	Change S. G. conditions of approval	0.00	0.00	8.81	0.00	0.00	0.00
4008080F	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008081I	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008082E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008083E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008084E	04/10/87	Change S. G. conditions of approval	23.66	11.20	121.79	0.00	0.00	0.00
4008085J	04/10/87	Change S. G. conditions of approval	-10.77	7.92	88.92	0.00	0.00	0.00
4008086B	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008087B	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008088B	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008089B	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008090B	04/10/87	Change S. G. conditions of approval	7.53	7.92	88.92	0.00	0.00	0.00
4008091H	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008092D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	53.86	0.00	0.00	0.00
4008093E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008094E	04/10/87	Change S. G. conditions of approval	6.10	0.00	54.01	0.00	0.00	0.00
4008095C	04/10/87	Change S. G. conditions of approval	-11.90	0.00	54.01	0.00	0.00	0.00
4008096B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008097B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008098B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008099B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008100A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008101A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008102B	04/10/87	Change S. G. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008150B	04/10/87	Change S. G. conditions of approval	-6.04	0.00	23.55	-54.91	0.00	0.00
4008151D	04/10/87	Change S. G. conditions of approval	-13.54	0.00	20.53	0.00	0.00	0.00
4008167C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008168B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008169B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008170B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008171C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	33.18
4008174B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008175B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008176B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008177C	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26
4008178B	04/10/87	Change S. G. conditions of approval	53.45	24.73	88.47	192.00	6.60	30.26

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008179A	04/10/87	Change S. G. conditions of approval	-5.28	0.00	23.55	-54.91	0.00	0.00
4008184E	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008185D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008186D	04/10/87	Change S. G. conditions of approval	-13.92	2.09	58.00	0.00	0.00	0.00
4008213E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-55.67	-74.88	-1.25	-6.24
4008214B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-305.28	-74.88	-1.25	-6.24
4008215D	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008216C	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-78.48	-74.88	-1.25	-6.24
4008218E	04/10/87	Change S. G. conditions of approval	-16.82	-3.88	-78.48	-74.88	-1.25	-6.24
4008219E	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008220C	04/10/87	Change S. G. conditions of approval	-37.98	-8.23	-9.49	-117.00	-2.55	-13.05
4008225E	04/10/87	Change S. G. conditions of approval	-27.76	-3.37	-24.55	-62.90	-1.02	-5.24
4008228B	04/10/87	Change S. G. conditions of approval	-34.63	0.58	-34.98	-74.88	-1.68	-6.64
4008232B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008233B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008234B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008235B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008236B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008237B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008238B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008239B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008240B	04/10/87	Change S. G. conditions of approval	-12.67	-3.88	-13.68	-74.88	-1.25	-6.24
4008241B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008242B	04/10/87	Change S. G. conditions of approval	-36.91	-8.23	-28.51	-117.00	-2.55	-13.05
4008243B	04/10/87	Change S. G. conditions of approval	-34.63	-15.55	-61.91	-74.88	-1.25	-6.24
4008249B	04/10/87	Change S. G. conditions of approval	-36.79	0.60	-32.18	-74.88	-1.40	-7.10
4008810C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008811C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008812C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008813C	04/10/87	Change cogen. conditions of approval	0.00	2.40	-142.56	0.00	0.00	0.00
4008814D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008815D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008816D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008817D	04/10/87	Change cogen. conditions of approval	26.68	48.96	-96.00	0.00	0.00	0.00
4008819B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008820B	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008821A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008822A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.07	0.00	0.00	0.00
4008823A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008824A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008825A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008826A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008827A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008828A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
4008829A	04/10/87	Change cogen. conditions of approval	0.00	2.40	1.66	0.00	0.00	0.00
	04/10/87	Surrender Permit to Operate # 4008183	-28.23	-11.27	-353.93	-113.66	-1.89	-9.47
	04/10/87	Surrender Permit to Operate # 4008187	-32.04	-12.80	-401.76	-96.77	-2.15	-10.75
4008810D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008811D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008812D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008813D	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008814E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008815E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008816E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008817E	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008819C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008820C	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008821B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008822B	05/01/87	Change cogen. monitoring requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008071I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008072I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008073I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008074I	05/05/87	Modify scrubber liquor recirculation	0.00	0.00	0.00	0.00	0.00	0.00
4008092E	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008151F	05/20/87	Adjust ESL's to 424 requirements	0.00	0.00	0.00	0.00	0.00	0.00
4008070H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008071H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008072H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008073H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008074H	05/21/87	Allow use of soda ash for scrubber	0.00	0.00	0.00	0.00	0.00	0.00
4008482	05/21/87	Soda ash storage silo	0.51	0.00	0.00	0.00	0.00	0.00
4008073H	05/22/87	Mod. S. 6. conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008810E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008811E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008812E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008813E	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008814F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008815F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008816F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008817F	06/30/87	Chng turbine PM, HC, & CO emission limits	-5.76	0.00	0.00	0.00	23.04	23.52
4008819D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008820D	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008821C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008822C	06/30/87	Chng turbine PM, HC, & CO emission limits	4.98	0.00	0.00	0.00	33.04	-16.37
4008823B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008824B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008825B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008826B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008827B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008828B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008829B	06/30/87	Chng turbine PM, HC, & CO emission limits	4.24	0.00	0.00	0.00	33.07	-17.77
4008502	07/28/87	LPB truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008503	07/28/87	LPB truck unloading rack	0.00	0.00	0.00	0.00	24.12	0.00
4008377A	09/03/87	TEOR modification; add 18 wells	0.00	0.00	-156.00	0.00	56.52	0.00
4008027C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008028C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.18	0.00
4008031I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008032H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008033F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008034F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008059D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.30	0.00
4008065H	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008066F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008069B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008075E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008077J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008078E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008079C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008080G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008081J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008082F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008083F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008084E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008085K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008086I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008087I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008088I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008089I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008090I	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008091J	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008092B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008093B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008094B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008095E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008096C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008097C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008098C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008099C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008100B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008101B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008102C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008150C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008151B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008167D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008168D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008170C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008171D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008172A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008173A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.31	0.00
4008174C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008175C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008176C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008177D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008178C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.76	0.00
4008179B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.25	0.00
4008184F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008185E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008186E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.96	0.00
4008195A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008202B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008203A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008204A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008205A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008206A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008207A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008208A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008213G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008214D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008215F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008216E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008218G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008219G	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008220E	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008225B	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.15	0.00
4008228D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	3.84	0.00
4008232D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008233C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008234C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008235C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008236C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008237C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008238C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008239C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008240C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008241C	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008242D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	8.91	0.00
4008243D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008249D	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.92	0.00
4008285A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008286A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008289A	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	4.38	0.00
4008070K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008071K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008072K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008073K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008074K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008075F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008077K	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008078F	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091L	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008091M	09/29/87	Increase steam generator HC ESL's	0.00	0.00	0.00	0.00	0.00	0.00
4008319F	10/08/87	Modification of existing TEOR operation	0.00	0.00	0.00	0.00	100.48	0.00
Total adjustments from 9/12/79 to 6/22/87 =			-44.21	164.71	-749.62	-3756.58	-3570.62	3026.30

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008093I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008094I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095F	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008095B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151H	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151I	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008151J	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008810B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008811B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008812G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008813B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008814G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008815G	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008816B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008817B	11/04/87	Revise NOx offset requirements for cogens	0.00	0.00	0.00	0.00	0.00	0.00
4008484		Permit existing unpermitted tank	Denied 5/17/88					
4008485		Permit existing unpermitted tank	Denied 5/17/88					
4008486		Permit existing unpermitted tank	Denied 5/17/88					
4008487		Permit existing unpermitted tank	Denied 5/17/88					
4008488		Permit existing unpermitted tank	Denied 5/17/88					
4008220F	05/23/88	Steam generator transfer of location	0.00	0.00	0.00	0.00	0.00	0.00
4008489		Permit existing unpermitted tank	Denied 6/6/88					
4008490		Permit existing unpermitted tank	Denied 6/6/88					
4008491		Permit existing unpermitted tank	Denied 6/6/88					
4008492		Permit existing unpermitted tank	Denied 6/6/88					
4008493		Permit existing unpermitted tank	Denied 6/6/88					
4008494		Permit existing unpermitted tank	Denied 6/6/88					
4008495		Permit existing unpermitted tank	Denied 6/6/88					
4008098D	08/17/88	Add multiple locations for steam gen.	0.00	0.00	0.00	0.00	0.00	0.00
4008496	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008497	10/14/88	Retrofit prestratified charge comb. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008347F	10/19/88	TEOR modification; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008451A	10/19/88	Tank bat. mod.; change vapor cont. sys.	0.00	0.00	0.00	0.00	0.00	0.00
4008171E	10/28/88	Revise conditions of approval	0.00	0.00	0.00	0.00	0.00	0.00
4008096D	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008213H	01/18/89	Convert S. G. to gas firing	0.00	0.00	0.00	0.00	0.00	0.00
4008504	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008505	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008506	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008507	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008508	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008509	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008510	02/24/89	Permit to Operate for I. C. Engine	0.00	0.00	0.00	0.00	0.00	0.00
4008511	02/24/89	5,000 bbl capacity FWKD tank # T-1	0.00	0.00	0.00	0.00	0.84	0.00
4008512	02/24/89	2,000 bbl capacity LACT tank # T-2	0.00	0.00	0.00	0.00	0.81	0.00
4008513	02/24/89	2,000 bbl capacity reject tank # T-3	0.00	0.00	0.00	0.00	0.09	0.00
4008514	02/24/89	1,000 bbl capacity slop oil tank # T-4	0.00	0.00	0.00	0.00	0.08	0.00
4008515	02/24/89	3,000 bbl capacity waste water tank # T-5	0.00	0.00	0.00	0.00	0.04	0.00

Chevron U. S. A. Western Stationary Source

Adjustments Represented by Authorities to Construct Issued After 9/12/79

A to C No.	Issue Date	Project Description	PM lbm/day	SO4 lbm/day	SO2 lbm/day	NO2 lbm/day	HC lbm/day	CO lbm/day
4008516	02/24/89	Heater treater # V-1	0.00	0.00	0.00	0.00	0.00	0.00
4008517	02/24/89	Heater treater # V-2	0.00	0.00	0.00	0.00	0.00	0.00
4008518	02/24/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	12.34	0.00
4008519	03/01/89	5,000 bbl capacity FNKD tank # T-1	0.00	0.00	0.00	0.00	0.18	0.00
4008520	03/01/89	5,000 bbl capacity FNKD tank # T-2	0.00	0.00	0.00	0.00	0.73	0.00
4008521	03/01/89	10,000 bbl capacity wash tank # T-3	0.00	0.00	0.00	0.00	0.00	0.00
4008522	03/01/89	10,000 bbl capacity wash tank # T-4	0.00	0.00	0.00	0.00	0.10	0.00
4008523	03/01/89	2,000 bbl capacity LACT tank # T-5	0.00	0.00	0.00	0.00	0.86	0.00
4008524	03/01/89	2,000 bbl capacity reject tank # T-6	0.00	0.00	0.00	0.00	0.06	0.00
4008525	03/01/89	1,000 bbl capacity slop oil tank # T-1	0.00	0.00	0.00	0.00	0.06	0.00
4008526	03/01/89	WEMCO air flotation unit # W-1	0.00	0.00	0.00	0.00	2.43	0.00
4008092H	Pending	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008151K	Pending	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
4008171F	Pending	S. G. modification; incinerate H2S	0.00	0.00	0.00	0.00	0.00	0.00
Total adjustments authorized after 9/12/79 =			3.52	164.71	-749.62	-0.00	18.62	3026.30

**Chevron U.S.A.
VOC Offsets**

**EMISSION PROFILE
REESTABLISHMENT TEST**

WESTERN SOURCE

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
77 A	11-8-79	0.00	0.00		0.00
219 A	11-30-79	0.00	0.00		0.00
220 A	11-30-79	0.00	0.00		0.00
343 A	12-6-79	0.00	0.00		0.00
96	12-27-79	0.00	0.00		0.00
385 B	2-15-80	0.00	0.00		0.00
386 B	2-15-80	0.00	0.00		0.00
225	4-2-80	0.00	0.00		0.00
66	4-30-80	0.00	0.00		0.00
69	4-30-80	0.00	0.00		0.00
92	4-30-80	0.00	0.00		0.00
93	4-30-80	0.00	0.00		0.00
94	4-30-80	0.00	0.00		0.00
95	4-30-80	0.00	0.00		0.00
100	4-30-80	0.00	0.00		0.00
101	4-30-80	0.00	0.00		0.00
150	4-30-80	0.00	0.00		0.00
151	4-30-80	0.00	0.00		0.00
179	4-30-80	0.00	0.00		0.00
349 B	4-30-80	0.00	0.00		0.00
32 A	5-19-80	0.00	0.00		0.00
32 S	5-19-80	0.00	0.00		0.00
33 S	5-19-80	0.00	0.00		0.00
80 S	5-19-80	0.00	0.00		0.00
84 S	5-19-80	0.00	0.00		0.00
34 B	5-19-80	0.00	0.00		0.00
65 C	5-19-80	0.00	0.00		0.00
77 B	5-19-80	0.00	0.00		0.00
81 B	5-19-80	0.00	0.00		0.00
81 S	5-19-80	0.00	0.00		0.00
82 S	5-19-80	0.00	0.00		0.00
83 S	5-19-80	0.00	0.00		0.00
85 A	5-19-80	0.00	0.00		0.00
85 S	5-19-80	0.00	0.00		0.00
86 S	5-19-80	0.00	0.00		0.00
87 S	5-19-80	0.00	0.00		0.00
88 S	5-19-80	0.00	0.00		0.00
89 S	5-19-80	0.00	0.00		0.00
91 A	5-19-80	0.00	0.00		0.00
167	5-19-80	0.00	0.00		0.00
167 A	5-19-80	0.00	0.00		0.00
168	5-19-80	0.00	0.00		0.00
169	5-19-80	0.00	0.00		0.00
170	5-19-80	0.00	0.00		0.00
171	5-19-80	0.00	0.00		0.00
172	5-19-80	0.00	0.00		0.00
173	5-19-80	0.00	0.00		0.00
174	5-19-80	0.00	0.00		0.00
175	5-19-80	0.00	0.00		0.00

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
176	5-19-80		0.00		0.00
177	5-19-80		0.00		0.00
177 A	5-19-80		0.00		0.00
178	5-19-80		0.00		0.00
317 B	5-19-80	-263.38	-263.38	-263.38	0.00
318 A	5-19-80	-414.60	-677.98	-414.60	0.00
319 B	5-19-80	-457.01	-1134.99	-457.01	0.00
343 B	5-19-80	-882.29	-2017.28	-882.29	0.00
345 A	5-19-80	-69.84	-2087.12	-69.84	0.00
346 B	5-19-80	-295.00	-2382.12	-295.00	0.00
347 B	5-19-80	-103.18	-2485.30	-103.18	0.00
349 C	5-19-80	-567.14	-3052.44	-567.14	0.00
350 A	5-19-80	-397.78	-3450.22	-397.78	0.00
351 A	5-19-80	-403.55	-3853.77		-403.55
352 B	5-19-80	-567.05	-4420.82		-970.60
353 A	5-19-80	-580.00	-5000.82		-1550.60
354 A	5-19-80	-721.77	-5722.59		-2272.37
357 A	5-19-80	-112.50	-5835.09		-2384.87
359 B	5-19-80	-60.00	-5895.09		-2444.87
371	5-19-80	24.00	-5871.09		-2420.87
372	5-19-80	7.20	-5863.89		-2413.67
319 C	6-2-80		-5863.89		-2413.67
346 C	6-2-80		-5863.89		-2413.67
351 B	6-2-80		-5863.89		-2413.67
70 A	7-14-80		-5863.89		-2413.67
71 A	7-14-80		-5863.89		-2413.67
72 A	7-14-80		-5863.89		-2413.67
73 A	7-14-80		-5863.89		-2413.67
74 A	7-14-80		-5863.89		-2413.67
75 A	7-14-80		-5863.89		-2413.67
91 B	7-14-80		-5863.89		-2413.67
32 A	7-29-80		-5863.89		-2413.67
81 A	7-29-80		-5863.89		-2413.67
77 C	9-15-80		-5863.89		-2413.67
31 A	9-15-80		-5863.89		-2413.67
32 B	9-15-80		-5863.89		-2413.67
33 A	9-15-80		-5863.89		-2413.67
65 D	9-15-80		-5863.89		-2413.67
66 A	9-15-80		-5863.89		-2413.67
80 A	9-15-80		-5863.89		-2413.67
81 C	9-15-80		-5863.89		-2413.67
82 A	9-15-80		-5863.89		-2413.67
83 A	9-15-80		-5863.89		-2413.67
84 A	9-15-80		-5863.89		-2413.67
85 B	9-15-80		-5863.89		-2413.67
86 A	9-15-80		-5863.89		-2413.67
87 A	9-15-80		-5863.89		-2413.67

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
88 A	9-15-80		-5863.89		-2413.67
89 A	9-15-80		-5863.89		-2413.67
90 A	9-15-80		-5863.89		-2413.67
92 A	9-15-80		-5863.89		-2413.67
151 A	9-15-80		-5863.89		-2413.67
171 A	9-15-80		-5863.89		-2413.67
213 B	10-8-80		-5863.89		-2413.67
215 B	10-8-80		-5863.89		-2413.67
317 C	10-8-80		-5863.89		-2413.67
318 B	10-8-80		-5863.89		-2413.67
34 C	10-29-80		-5863.89		-2413.67
77 D	11-13-80		-5863.89		-2413.67
77 E	11-15-80		-5863.89		-2413.67
350 B	2-12-81		-5863.89		-2413.67
352 B	2-12-81		-5863.89		-2413.67
346 D	2-13-81	7.50	-5856.39		-2406.17
349 D	2-17-81	-21.60	-5877.99		-2427.77
26 A	2-23-81		-5877.99		-2427.77
27 A	2-23-81		-5877.99		-2427.77
28 A	2-23-81		-5877.99		-2427.77
70 B	2-23-81		-5877.99		-2427.77
71 B	2-23-81		-5877.99		-2427.77
72 B	2-23-81		-5877.99		-2427.77
73 B	2-23-81		-5877.99		-2427.77
74 B	2-23-81		-5877.99		-2427.77
75 B	2-23-81		-5877.99		-2427.77
77 F	2-23-81		-5877.99		-2427.77
78 A	2-23-81		-5877.99		-2427.77
79 A	2-23-81		-5877.99		-2427.77
91 C	2-23-81		-5877.99		-2427.77
96 A	2-23-81		-5877.99		-2427.77
97 A	2-23-81		-5877.99		-2427.77
98 A	2-23-81		-5877.99		-2427.77
99 A	2-23-81		-5877.99		-2427.77
102 A	2-23-81		-5877.99		-2427.77
213 C	3-11-81		-5877.99		-2427.77
214 A	3-11-81		-5877.99		-2427.77
215 C	3-11-81		-5877.99		-2427.77
216 B	3-11-81		-5877.99		-2427.77
218 A	3-11-81		-5877.99		-2427.77
225 B	3-11-81		-5877.99		-2427.77
228 A	4-15-81		-5877.99		-2427.77
249 A	4-15-81		-5877.99		-2427.77
78 B	6-12-81		-5877.99		-2427.77
350 C	6-18-81	2.50	-5875.49		-2425.27
317 D	7-1-81		-5875.49		-2425.27
31 B	7-22-81		-5875.49		-2425.27

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
32 C	7-22-81		-5875.49		-2425.27
81 E	7-22-81		-5875.49		-2425.27
804	7-22-81		-5875.49		-2425.27
805	7-22-81		-5875.49		-2425.27
806	7-22-81		-5875.49		-2425.27
370	9-4-81	-83.40	-5958.89		-2508.67
317 E	10-14-81		-5958.89		-2508.67
318 C	10-14-81		-5958.89		-2508.67
350 D	10-14-81		-5958.89		-2508.67
349 E	10-14-81	7.50	-5951.39		-2501.17
183 A	10-22-81		-5951.39		-2501.17
184 A	10-22-81		-5951.39		-2501.17
185 A	10-22-81		-5951.39		-2501.17
186 A	10-22-81		-5951.39		-2501.17
218 B	10-23-81		-5951.39		-2501.17
184 B	10-27-81		-5951.39		-2501.17
809	10-27-81		-5951.39		-2501.17
319 D	12-9-81	-12.50	-5963.89		-2513.67
346 E	12-23-81		-5963.89		-2513.67
232 A	1-11-82		-5963.89		-2513.67
233 A	1-11-82		-5963.89		-2513.67
234 A	1-11-82		-5963.89		-2513.67
235 A	1-11-82		-5963.89		-2513.67
236 A	1-11-82		-5963.89		-2513.67
237 A	1-11-82		-5963.89		-2513.67
238 A	1-11-82		-5963.89		-2513.67
239 A	1-11-82		-5963.89		-2513.67
240 A	1-11-82		-5963.89		-2513.67
241 A	1-11-82		-5963.89		-2513.67
242 A	1-11-82		-5963.89		-2513.67
243 A	1-11-82		-5963.89		-2513.67
350 D	2-5-82		-5963.89		-2513.67
218 C	2-19-82		-5963.89		-2513.67
810	3-8-82	24.96	-5938.93		-2488.71
811	3-8-82	24.96	-5913.97		-2463.75
812	3-8-82	24.96	-5889.01		-2438.79
813	3-8-82	24.96	-5864.05		-2413.83
814	3-8-82	24.96	-5839.09		-2388.87
815	3-8-82	24.96	-5814.13		-2363.91
816	3-8-82	24.96	-5789.17		-2338.95
817	3-8-82	24.96	-5764.21		-2313.99
34 D	4-9-82		-5764.21		-2313.99
86 B	4-9-82		-5764.21		-2313.99
87 B	4-9-82		-5764.21		-2313.99
88 B	4-9-82		-5764.21		-2313.99
89 B	4-9-82		-5764.21		-2313.99
90 B	4-9-82		-5764.21		-2313.99
382 D	4-19-82		-5764.21		-2313.99
384 C	4-19-82		-5764.21		-2313.99

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
385 C	4-19-82		-5764.21		-2313.99
386 C	4-19-82		-5764.21		-2313.99
59 B	6-16-82	2.46	-5761.75		-2311.53
26 X	6-16-82	-2.77	-5764.52		-2314.30
386 C	11-5-82		-5764.52		-2314.30
350 E	1-12-83		-5764.52		-2314.30
285 D	6-13-83		-5764.52		-2314.30
346 F	8-16-83	44.10	-5720.42		-2270.20
385 E	9-7-83		-5720.42		-2270.20
810 A	10-6-83		-5720.42		-2270.20
811 A	10-6-83		-5720.42		-2270.20
812 A	10-6-83		-5720.42		-2270.20
813 A	10-6-83		-5720.42		-2270.20
814 A	10-6-83		-5720.42		-2270.20
815 A	10-6-83		-5720.42		-2270.20
816 A	10-6-83		-5720.42		-2270.20
817 A	10-6-83		-5720.42		-2270.20
384 D	12-5-83		-5720.42		-2270.20
347 C	1-2-84	2.14	-5718.28		-2268.06
382 F	1-3-84		-5718.28		-2268.06
375	1-30-84		-5718.28		-2268.06
436 A	2-13-84		-5718.28		-2268.06
384 E	4-4-84		-5718.28		-2268.06
385 F	5-23-84		-5718.28		-2268.06
384 F	6-18-84	20.20	-5698.08		-2247.86
70 C	6-29-84		-5698.08		-2247.86
71 C	6-29-84		-5698.08		-2247.86
72 C	6-29-84		-5698.08		-2247.86
73 C	6-29-84		-5698.08		-2247.86
74 C	6-29-84		-5698.08		-2247.86
31 C	11-14-84		-5698.08		-2247.86
32 D	11-14-84		-5698.08		-2247.86
33 B	11-14-84		-5698.08		-2247.86
65 E	11-14-84		-5698.08		-2247.86
77 F	11-14-84		-5698.08		-2247.86
78 C	11-14-84		-5698.08		-2247.86
80 B	11-14-84		-5698.08		-2247.86
81 F	11-14-84		-5698.08		-2247.86
82 B	11-14-84		-5698.08		-2247.86
83 B	11-14-84		-5698.08		-2247.86
84 B	11-14-84		-5698.08		-2247.86
85 D	11-14-84		-5698.08		-2247.86
86 C	11-14-84		-5698.08		-2247.86
87 C	11-14-84		-5698.08		-2247.86
88 C	11-14-84		-5698.08		-2247.86
89 C	11-14-84		-5698.08		-2247.86
90 C	11-14-84		-5698.08		-2247.86
93 A	11-14-84		-5698.08		-2247.86
94 A	11-14-84		-5698.08		-2247.86

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
95 A	11-14-84		-5698.08		-2247.86
150 A	11-14-84		-5698.08		-2247.86
184 C	11-14-84		-5698.08		-2247.86
185 B	11-14-84		-5698.08		-2247.86
186 B	11-14-84		-5698.08		-2247.86
384 G	12-12-84	51.64	-5646.44		-2196.22
385 G	12-12-84	2.34	-5644.10		-2193.88
386 G	12-12-84	1.82	-5642.28		-2192.06
377	1-3-85	179.00	-5463.28		-2013.06
225 C	5-29-85	-0.50	-5463.78		-2013.56
999 S	5-29-85		-5463.78		-2013.56
318 D	6-12-85		-5463.78		-2013.56
384 H	6-22-85	3.14	-5460.64		-2010.42
814 C	6-25-85		-5460.64		-2010.42
815 C	6-25-85		-5460.64		-2010.42
816 C	6-25-85		-5460.64		-2010.42
817 C	6-25-85		-5460.64		-2010.42
382	6-28-85	219.80	-5240.84		-1790.62
31 D	7-22-85		-5240.84		-1790.62
32 E	7-22-85		-5240.84		-1790.62
33 C	7-22-85		-5240.84		-1790.62
80 C	7-22-85		-5240.84		-1790.62
81 G	7-22-85		-5240.84		-1790.62
82 C	7-22-85		-5240.84		-1790.62
83 C	7-22-85		-5240.84		-1790.62
84 C	7-22-85		-5240.84		-1790.62
86 D	7-22-85		-5240.84		-1790.62
87 D	7-22-85		-5240.84		-1790.62
88 D	7-22-85		-5240.84		-1790.62
89 D	7-22-85		-5240.84		-1790.62
90 D	7-22-85		-5240.84		-1790.62
93 B	7-22-85		-5240.84		-1790.62
94 B	7-22-85		-5240.84		-1790.62
814 B	7-22-85		-5240.84		-1790.62
815 B	7-22-85		-5240.84		-1790.62
816 B	7-22-85		-5240.84		-1790.62
817 B	7-22-85		-5240.84		-1790.62
819	7-22-85	14.00	-5226.84		-1776.62
820	7-22-85	14.00	-5212.84		-1762.62
821	7-22-85	14.00	-5198.84		-1748.62
822	7-22-85	14.00	-5184.84		-1734.62
999 S	7-22-85		-5184.84		-1734.62
66 D	7-22-85		-5184.84		-1734.62
70 E	7-22-85		-5184.84		-1734.62
71 E	7-22-85		-5184.84		-1734.62
72 E	7-22-85		-5184.84		-1734.62
73 E	7-22-85		-5184.84		-1734.62
74 E	7-22-85		-5184.84		-1734.62
92 B	7-22-85		-5184.84		-1734.62

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
810 B	7-22-85		-5184.84		-1734.62
811 B	7-22-85		-5184.84		-1734.62
812 B	7-22-85		-5184.84		-1734.62
813 B	7-22-85		-5184.84		-1734.62
819 A	7-22-85		-5184.84		-1734.62
820 A	7-22-85		-5184.84		-1734.62
823	7-22-85	13.97	-5170.87		-1720.65
824	7-22-85	13.97	-5156.90		-1706.68
825	7-22-85	13.97	-5142.93		-1692.71
826	7-22-85	13.97	-5128.96		-1678.74
827	7-22-85	13.97	-5114.99		-1664.77
828	7-22-85	13.97	-5101.02		-1650.80
829	7-22-85	13.97	-5087.05		-1636.83
384 H	7-22-85	3.14	-5083.91		-1633.69
387	8-26-85	103.62	-4980.29		-1530.07
317 F	8-27-85	-81.60	-5061.89		-1611.67
318 E	8-27-85	69.10	-4992.79		-1542.57
346 G	8-27-85		-4992.79		-1542.57
347 D	8-27-85	-32.80	-5025.59		-1575.37
349 G	8-27-85	-244.70	-5270.29		-1820.07
350 F	8-27-85	-63.20	-5333.49		-1883.27
351 C	8-27-85	-42.60	-5376.09		-1925.87
352 C	8-27-85	-26.00	-5402.09		-1951.87
370 A	8-27-85		-5402.09		-1951.87
375 A	8-27-85		-5402.09		-1951.87
93 C	8-30-85		-5402.09		-1951.87
94 C	8-30-85		-5402.09		-1951.87
379	8-30-85	62.80	-5339.29		-1889.07
213 D	11-7-85		-5339.29		-1889.07
218 D	11-7-85		-5339.29		-1889.07
219 D	11-7-85		-5339.29		-1889.07
220 B	11-7-85		-5339.29		-1889.07
225 B	11-7-85		-5339.29		-1889.07
31 E	2-5-86		-5339.29		-1889.07
32 F	2-5-86		-5339.29		-1889.07
33 D	2-5-86		-5339.29		-1889.07
65 F	2-5-86		-5339.29		-1889.07
77 H	2-5-86		-5339.29		-1889.07
80 D	2-5-86		-5339.29		-1889.07
81 H	2-5-86		-5339.29		-1889.07
82 D	2-5-86		-5339.29		-1889.07
83 D	2-5-86		-5339.29		-1889.07
84 D	2-5-86		-5339.29		-1889.07
85 E	2-5-86		-5339.29		-1889.07
91 D	2-5-86		-5339.29		-1889.07
93 D	2-5-86		-5339.29		-1889.07
94 D	2-5-86		-5339.29		-1889.07
95 B	2-5-86		-5339.29		-1889.07
151 B	2-5-86		-5339.29		-1889.07

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
167 B	2-5-86		-5339.29		-1889.07
168 A	2-5-86		-5339.29		-1889.07
169 A	2-5-86		-5339.29		-1889.07
170 A	2-5-86		-5339.29		-1889.07
171 B	2-5-86		-5339.29		-1889.07
174 A	2-5-86		-5339.29		-1889.07
175 A	2-5-86		-5339.29		-1889.07
176 A	2-5-86		-5339.29		-1889.07
177 B	2-5-86		-5339.29		-1889.07
178 A	2-5-86		-5339.29		-1889.07
184 D	2-5-86		-5339.29		-1889.07
185 C	2-5-86		-5339.29		-1889.07
186 C	2-5-86		-5339.29		-1889.07
384 I	2-20-86		-5339.29		-1889.07
70 F	2-25-86	8.91	-5330.38		-1880.16
71 F	2-25-86	8.91	-5321.47		-1871.25
72 F	2-25-86	8.91	-5312.56		-1862.34
73 F	2-25-86	8.91	-5303.65		-1853.43
74 F	2-25-86	8.91	-5294.74		-1844.52
85 F	4-8-86		-5294.74		-1844.52
31 G	4-8-86		-5294.74		-1844.52
31 F	4-8-86		-5294.74		-1844.52
85 G	4-8-86		-5294.74		-1844.52
86 E	4-8-86		-5294.74		-1844.52
86 F	4-8-86		-5294.74		-1844.52
87 E	4-8-86		-5294.74		-1844.52
87 F	4-8-86		-5294.74		-1844.52
88 E	4-8-86		-5294.74		-1844.52
88 F	4-8-86		-5294.74		-1844.52
89 E	4-8-86		-5294.74		-1844.52
89 F	4-8-86		-5294.74		-1844.52
90 E	4-8-86		-5294.74		-1844.52
90 F	4-8-86		-5294.74		-1844.52
451	5-1-86		-5294.74		-1844.52
92 C	8-14-86		-5294.74		-1844.52
151 C	8-14-86		-5294.74		-1844.52
318 F	9-15-86	15.24	-5279.50		-1829.28
347 E	9-15-86	138.88	-5140.62		-1690.40
350 G	9-15-86	19.44	-5121.18		-1670.96
351 D	9-15-86	21.44	-5099.74		-1649.52
319 E	9-26-86	62.36	-5037.38		-1587.16
349 H	10-27-86	37.66	-4999.72		-1549.50
317 H	10-27-86	43.96	-4955.76		-1505.54
352 E	10-27-86	34.54	-4921.22		-1471.00
27 B	4-10-87		-4921.22		-1471.00
28 B	4-10-87		-4921.22		-1471.00
31 H	4-10-87		-4921.22		-1471.00
32 G	4-10-87		-4921.22		-1471.00
33 E	4-10-87		-4921.22		-1471.00

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
34 E	4-10-87		-4921.22		-1471.00
59 C	4-10-87		-4921.22		-1471.00
65 G	4-10-87		-4921.22		-1471.00
66 C	4-10-87		-4921.22		-1471.00
69 A	4-10-87		-4921.22		-1471.00
70 G	4-10-87		-4921.22		-1471.00
71 G	4-10-87		-4921.22		-1471.00
72 G	4-10-87		-4921.22		-1471.00
73 G	4-10-87		-4921.22		-1471.00
74 G	4-10-87		-4921.22		-1471.00
75 D	4-10-87		-4921.22		-1471.00
77 I	4-10-87		-4921.22		-1471.00
78 D	4-10-87		-4921.22		-1471.00
79 B	4-10-87		-4921.22		-1471.00
80 F	4-10-87		-4921.22		-1471.00
81 I	4-10-87		-4921.22		-1471.00
82 E	4-10-87		-4921.22		-1471.00
83 E	4-10-87		-4921.22		-1471.00
84 E	4-10-87		-4921.22		-1471.00
85 J	4-10-87		-4921.22		-1471.00
86 G	4-10-87		-4921.22		-1471.00
87 G	4-10-87		-4921.22		-1471.00
88 G	4-10-87		-4921.22		-1471.00
89 G	4-10-87		-4921.22		-1471.00
90 G	4-10-87		-4921.22		-1471.00
91 H	4-10-87		-4921.22		-1471.00
92 D	4-10-87		-4921.22		-1471.00
93 E	4-10-87		-4921.22		-1471.00
94 E	4-10-87		-4921.22		-1471.00
95 C	4-10-87		-4921.22		-1471.00
96 B	4-10-87		-4921.22		-1471.00
97 B	4-10-87		-4921.22		-1471.00
98 B	4-10-87		-4921.22		-1471.00
99 B	4-10-87		-4921.22		-1471.00
100 A	4-10-87		-4921.22		-1471.00
101 A	4-10-87		-4921.22		-1471.00
102 B	4-10-87		-4921.22		-1471.00
150 B	4-10-87		-4921.22		-1471.00
151 D	4-10-87		-4921.22		-1471.00
167 C	4-10-87	6.40	-4914.82		-1464.60
168 B	4-10-87	6.60	-4908.22		-1458.00
169 B	4-10-87	6.60	-4901.62		-1451.40
170 B	4-10-87	6.60	-4895.02		-1444.80
171 C	4-10-87	6.60	-4888.42		-1438.20
174 B	4-10-87	6.60	-4881.82		-1431.60
175 B	4-10-87	6.60	-4875.22		-1425.00
176 B	4-10-87	6.60	-4868.62		-1418.40
177 C	4-10-87	6.60	-4862.02		-1411.80
178 B	4-10-87	6.60	-4855.42		-1405.20

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
179 A	4-10-87		-4855.42		-1405.20
184 E	4-10-87		-4855.42		-1405.20
185 D	4-10-87		-4855.42		-1405.20
186 D	4-10-87		-4855.42		-1405.20
213 E	4-10-87	-1.25	-4856.67		-1406.45
214 B	4-10-87	-1.25	-4857.92		-1407.70
215 D	4-10-87	-1.25	-4859.17		-1408.95
216 C	4-10-87	-1.25	-4860.42		-1410.20
218 E	4-10-87	-1.25	-4861.67		-1411.45
219 E	4-10-87	-2.55	-4864.22		-1414.00
220 C	4-10-87	-2.55	-4866.77		-1416.55
225 E	4-10-87	-1.02	-4867.79		-1417.57
228 B	4-10-87	-1.68	-4869.47		-1419.25
232 B	4-10-87	-1.25	-4870.72		-1420.50
233 B	4-10-87	-1.25	-4871.97		-1421.75
234 B	4-10-87	-1.25	-4873.22		-1423.00
235 B	4-10-87	-1.25	-4874.47		-1424.25
236 B	4-10-87	-1.25	-4875.72		-1425.50
237 B	4-10-87	-1.25	-4876.97		-1426.75
238 B	4-10-87	-1.25	-4878.22		-1428.00
239 B	4-10-87	-1.25	-4879.47		-1429.25
240 B	4-10-87	-1.25	-4880.72		-1430.50
241 B	4-10-87	-1.25	-4881.97		-1431.75
242 B	4-10-87	-2.55	-4884.52		-1434.30
243 B	4-10-87	-1.25	-4885.77		-1435.55
249 B	4-10-87	-1.40	-4887.17		-1436.95
810 C	4-10-87		-4887.17		-1436.95
811 C	4-10-87		-4887.17		-1436.95
812 C	4-10-87		-4887.17		-1436.95
813 C	4-10-87		-4887.17		-1436.95
814 D	4-10-87		-4887.17		-1436.95
815 D	4-10-87		-4887.17		-1436.95
816 D	4-10-87		-4887.17		-1436.95
817 D	4-10-87		-4887.17		-1436.95
819 B	4-10-87		-4887.17		-1436.95
820 B	4-10-87		-4887.17		-1436.95
821 A	4-10-87		-4887.17		-1436.95
822 A	4-10-87		-4887.17		-1436.95
823 A	4-10-87		-4887.17		-1436.95
824 A	4-10-87		-4887.17		-1436.95
825 A	4-10-87		-4887.17		-1436.95
826 A	4-10-87		-4887.17		-1436.95
827 A	4-10-87		-4887.17		-1436.95
828 A	4-10-87		-4887.17		-1436.95
829 A	4-10-87		-4887.17		-1436.95
183 X	4-10-87	-1.89	-4889.06		-1438.84
187 X	4-10-87	-2.15	-4891.21		-1440.99
810 D	5-10-87		-4891.21		-1440.99
811 D	5-1-87		-4891.21		-1440.99

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
812 D	5-1-87		-4891.21		-1440.99
813 D	5-1-87		-4891.21		-1440.99
814 E	5-1-87		-4891.21		-1440.99
815 E	5-1-87		-4891.21		-1440.99
816 E	5-1-87		-4891.21		-1440.99
817 E	5-1-87		-4891.21		-1440.99
819 C	5-1-87		-4891.21		-1440.99
820 C	5-1-87		-4891.21		-1440.99
821 B	5-1-87		-4891.21		-1440.99
822 B	5-1-87		-4891.21		-1440.99
70 I	5-5-87		-4891.21		-1440.99
71 I	5-5-87		-4891.21		-1440.99
72 I	5-5-87		-4891.21		-1440.99
73 I	5-5-87		-4891.21		-1440.99
74 I	5-5-87		-4891.21		-1440.99
92 E	5-20-87		-4891.21		-1440.99
151 F	5-20-87		-4891.21		-1440.99
70 H	5-21-87		-4891.21		-1440.99
71 H	5-21-87		-4891.21		-1440.99
72 H	5-21-87		-4891.21		-1440.99
73 H	5-21-87		-4891.21		-1440.99
74 H	5-21-87		-4891.21		-1440.99
482	5-21-87		-4891.21		-1440.99
73 H	5-21-87		-4891.21		-1440.99
810 E	6-30-87	23.04	-4868.17		-1417.95
811 E	6-30-87	23.04	-4845.13		-1394.91
812 E	6-30-87	23.04	-4822.09		-1371.87
813 E	6-30-87	23.04	-4799.05		-1348.83
814 F	6-30-87	23.04	-4776.01		-1325.79
815 F	6-30-87	23.04	-4752.97		-1302.75
816 F	6-30-87	23.04	-4729.93		-1279.71
817 F	6-30-87	23.04	-4706.89		-1256.67
819 D	6-30-87	33.04	-4673.85		-1223.63
820 D	6-30-87	33.04	-4640.81		-1190.59
821 C	6-30-87	33.04	-4607.77		-1157.55
822 C	6-30-87	33.04	-4574.73		-1124.51
823 B	6-30-87	33.07	-4541.66		-1091.44
824 B	6-30-87	33.07	-4508.59		-1058.37
825 B	6-30-87	33.07	-4475.52		-1025.30
826 B	6-30-87	33.07	-4442.45		-992.23
827 B	6-30-87	33.07	-4409.38		-959.16
828 B	6-30-87	33.07	-4376.31		-926.09
829 B	6-30-87	33.07	-4343.24		-893.02
502	7-28-87	24.12	-4319.12		-868.90
503	7-28-87	24.12	-4295.00		-844.78
377 A	9-3-87	56.52	-4238.48		-788.26
27 C	9-29-87	4.18	-4234.30		-784.08
28 C	9-29-87	4.18	-4230.12		-779.90
31 I	9-29-87	8.96	-4221.16		-770.94

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
32 H	9-29-87	8.96	-4212.20		-761.98
33 F	9-29-87	8.96	-4203.24		-753.02
34 F	9-29-87	8.96	-4194.28		-744.06
59 D	9-29-87	4.30	-4189.98		-739.76
65 H	9-29-87	8.96	-4181.02		-730.80
66 F	9-29-87	8.96	-4172.06		-721.84
69 B	9-29-87	4.25	-4167.81		-717.59
75 E	9-29-87	4.25	-4163.56		-713.34
77 J	9-29-87	8.96	-4154.60		-704.38
78 E	9-29-87	4.25	-4150.35		-700.13
79 C	9-29-87	4.25	-4146.10		-695.88
80 G	9-29-87	8.96	-4137.14		-686.92
81 J	9-29-87	8.96	-4128.18		-677.96
82 F	9-29-87	8.96	-4119.22		-669.00
83 F	9-29-87	8.96	-4110.26		-660.04
84 E	9-29-87	8.96	-4101.30		-651.08
85 K	9-29-87	8.96	-4092.34		-642.12
86 I	9-29-87	8.96	-4083.38		-633.16
87 I	9-29-87	8.96	-4074.42		-624.20
88 I	9-29-87	8.96	-4065.46		-615.24
89 I	9-29-87	8.96	-4056.50		-606.28
90 I	9-29-87	8.96	-4047.54		-597.32
91 J	9-29-87	8.96	-4038.58		-588.36
92 G	9-29-87	8.96	-4029.62		-579.40
93 G	9-29-87	8.96	-4020.66		-570.44
94 G	9-29-87	8.96	-4011.70		-561.48
95 E	9-29-87	8.96	-4002.74		-552.52
96 C	9-29-87	4.92	-3997.82		-547.60
97 C	9-29-87	4.92	-3992.90		-542.68
98 C	9-29-87	4.92	-3987.98		-537.76
99 C	9-29-87	4.92	-3983.06		-532.84
100 B	9-29-87	4.25	-3978.81		-528.59
101 B	9-29-87	4.25	-3974.56		-524.34
102 C	9-29-87	4.92	-3969.64		-519.42
150 C	9-29-87	4.25	-3965.39		-515.17
151 G	9-29-87	8.96	-3956.43		-506.21
167 D	9-29-87	8.96	-3947.47		-497.25
168 D	9-29-87	8.76	-3938.71		-488.49
170 C	9-29-87	8.76	-3929.95		-479.73
171 D	9-29-87	8.76	-3921.19		-470.97
172 A	9-29-87	4.31	-3916.88		-466.66
173 A	9-29-87	4.31	-3912.57		-462.35
174 C	9-29-87	8.76	-3903.81		-453.59
175 C	9-29-87	8.76	-3895.05		-444.83
176 C	9-29-87	8.76	-3886.29		-436.07
177 D	9-29-87	8.76	-3877.53		-427.31
178 C	9-29-87	8.76	-3868.77		-418.55
179 B	9-29-87	4.25	-3864.52		-414.30
184 F	9-29-87	8.96	-3855.56		-405.34

CHEVRON HYDROCARBON OFFSETS - WESTERN SOURCE
REESTABLISHMENT TEST

APCD #	DATE	HC LB/DAY	CUMUL HC	REESTAB OFFSET	CUMUL TEST
185 E	9-29-87	8.96	-3846.60		-396.38
186 E	9-29-87	8.96	-3837.64		-387.42
195 A	9-29-87	4.38	-3833.26		-383.04
202 B	9-29-87	4.38	-3828.88		-378.66
203 A	9-29-87	4.38	-3824.50		-374.28
204 A	9-29-87	4.38	-3820.12		-369.90
205 A	9-29-87	4.38	-3815.74		-365.52
206 A	9-29-87	4.38	-3811.36		-361.14
207 A	9-29-87	4.38	-3806.98		-356.76
208 A	9-29-87	4.38	-3802.60		-352.38
213 G	9-29-87	4.92	-3797.68		-347.46
214 D	9-29-87	4.92	-3792.76		-342.54
215 F	9-29-87	4.92	-3787.84		-337.62
216 E	9-29-87	4.92	-3782.92		-332.70
218 G	9-29-87	4.92	-3778.00		-327.78
219 G	9-29-87	8.91	-3769.09		-318.87
220 E	9-29-87	8.91	-3760.18		-309.96
225 G	9-29-87	4.15	-3756.03		-305.81
228 D	9-29-87	3.84	-3752.19		-301.97
232 D	9-29-87	4.92	-3747.27		-297.05
233 C	9-29-87	4.92	-3742.35		-292.13
234 C	9-29-87	4.92	-3737.43		-287.21
235 C	9-29-87	4.92	-3732.51		-282.29
236 C	9-29-87	4.92	-3727.59		-277.37
237 C	9-29-87	4.92	-3722.67		-272.45
238 C	9-29-87	4.92	-3717.75		-267.53
239 C	9-29-87	4.92	-3712.83		-262.61
240 C	9-29-87	4.92	-3707.91		-257.69
241 C	9-29-87	4.92	-3702.99		-252.77
242 D	9-29-87	8.91	-3694.08		-243.86
243 D	9-29-87	4.92	-3689.16		-238.94
249 D	9-29-87	4.92	-3684.24		-234.02
285 A	9-29-87	4.38	-3679.86		-229.64
286 A	9-29-87	4.38	-3675.48		-225.26
289 A	9-29-87	4.38	-3671.10		-220.88
70 K	9-29-87		-3671.10		-220.88
71 K	9-29-87		-3671.10		-220.88
72 K	9-29-87		-3671.10		-220.88
73 K	9-29-87		-3671.10		-220.88
74 K	9-29-87		-3671.10		-220.88
75 F	9-29-87		-3671.10		-220.88
77 K	9-29-87		-3671.10		-220.88
78 F	9-29-87		-3671.10		-220.88
91 L	9-29-87		-3671.10		-220.88
91 M	9-29-87		-3671.10		-220.88
319 F	10-8-87	100.48	-3570.62		-120.40
Sum of reestablished offse					-3450.22
					-3450.22

Chevron U.S.A.
VOC Offsets

PERMITS

WESTERN SOURCE



Application No.: 4008317 36W
Date: January 6, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 28, 1977

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 36, T29S, R21E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.

For Period: 4-28-77 to 4-28-79



4008317

EQUIPMENT DESCRIPTION: One Crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from twenty crude oil production well casing head vents (well 23-4A is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines level control and stainless steel mist extractor.

CONDITIONS:

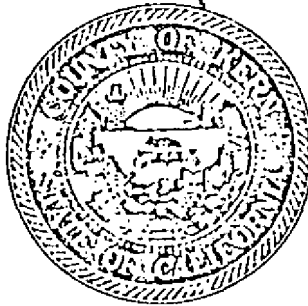
1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008317A

Date: July 20, 1978

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 15, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

Modification of well vent collection system, KCAPCD #4008317, as replacement of existing 100 bbl. collection tank with one 250 bbl. collection tank with mist eliminator.

SEE ATTACHED SHEET

Location:

Sec. 36, T29S, R21E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By:

For Period: 8-15-78 to 8-15-80




4008317A

EQUIPMENT DESCRIPTION: Modification of well vent collection system, KCAPCD #4008317, as replacement of existing 100 bbl. collection tank with one 250 bbl. collection tank with mist eliminator.

CONDITIONS:

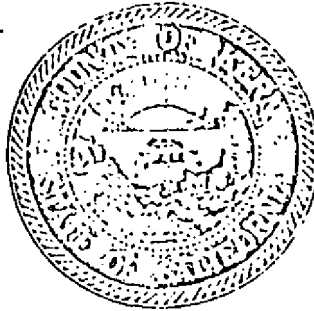
1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after tie-in of new well vents to system.
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project. Tie-in of new well vents to system.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Paxson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008318

Date: January 6, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 28, 1977

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 16, T30S, R22E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 209)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.



4008318

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from twenty-eight crude oil production well casing head vents (well 11-1 is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control and stainless steel mist extractor.

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON,
Director of Public Health
Air Pollution Control Officer



Application No.: 4008319

Date: January 6, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of April 28, 1977

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 26, T30S, R22E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: THOMAS PAXSON, R.S., R.M.E.

For Period: 4-28-77



4008319

EQUIPMENT DESCRIPTION: One crude oil production well casing head vent hydrocarbons collection/condensation system, including the following equipment and design specifications:

- a. Gathering line network collecting vapors from ten crude oil production well casing head vents (well 66-G is well nearest item b, below).
- b. Knockout/condensation chamber with tangential-entry vapor lines, level control and stainless steel mist extractor.

CONDITIONS:

1. Visible emissions from any single emission point shall be less than 20% opacity (evaluated at point where visible water vapor disappears).
2. Knockout/condensation chamber exhaust stack and mist extractor shall be sized as to prevent the mist extractor manufacturer's maximum recommended velocity from being exceeded.

By THOMAS PAXSON, R.S., R.M.E.
Thomas Paxson, R.S., R.M.E.
Air Sanitation Engineer

KERN COUNTY AIR POLLUTION CONTROL DISTRICT
P. O. Box 997, 1700 Flower Street
Bakersfield, California 93302

AA AUTHORITY TO CONSTRUCT
 XX PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

CHEVRON U.S.A., PRODUCTION DEPARTMENT, WESTERN REGION

MAILING ADDRESS:

P. O. BOX 5545, OILDALE, CA. Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 26, T: 32S., R. 23 E., M.D.B. & M.

GENERAL NATURE OF BUSINESS:

ENERGY

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

One (1) Casing Collection System Tank/Condensor Setting (STD -23-CC -1) to collect vapors from 12 pilot wells and 4 new project wells. Tank is existing, only condensor is added. (Drawing ND -478)

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

Condensor \$80,000

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

SIGNATURE OF APPLICANT:

C. N. Segnar

OFFICIAL TITLE OF SIGNER

GENERAL MANAGER PRODUCTION

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. SEGNAH

DATE: 1/13/78

PHONE NO: 15-894-2163

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:



An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

CHEVRON U.S.A. INC. PRODUCTION - WESTERN REGION

MAILING ADDRESS:

P. O. BOX 5545, OILDALE, CALIF.

Zip Code: 93303

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

SECTION 26C, T.32S., R.23E.

GENERAL NATURE OF BUSINESS:

ENERGY

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

CONNECT FOLLOWING SIX WELLS TO THE CASING COLLECTION SYSTEM APPROVED ON AUTHORITY TO OPERATE 4003319:

WELLS: 67F, 66J, 66H, 66L, 57H, 77A.
344 344 344 344

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT: AIR POLLUTION CONTROL EQUIPMENT INCLUDES GATHERING LINES, COOLERS, SEPARATOR AND STORAGE TANK.

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

PIPELINES FROM WELLS TO COLLECTION SYSTEM, \$12,000

SIGNATURE OF APPLICANT:

OFFICIAL TITLE OF SIGNER

GENERAL MANAGER
PRODUCTION - WESTERN REGION

TYPE OR PRINT NAME OF SIGNER

NAME: C. H. SEGNER

DATE:

PHONE NO. (415) 894-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

SENT

FILING FEE: \$

RECEIPT NO.

WITH OUR

LETTER 3/15/79

DATE:

PERMIT FEE: \$

RECEIPT NO.

KERN COUNTY AIR POLLUTION CONTROL DISTRICT

1601 "H" Street, Suite 250
Artesia, California 93301
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008342A

Date: April 13, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 25, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One Well Vent Casing Collection System

SEE ATTACHED SHEET

Location:

Sec. 26, T32S, R23E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By:

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008342A

EQUIPMENT DESCRIPTION: One Well Vent Casing Collection System serving the following wells 47K, 47D, 48K, 48A, 58A, 58L, 58C, 58D, 58F, 68A, 67E, 67C, 57G, 67D, 47F, 67G & 77C

including the following equipment and design specifications:


- a. Production well vent vapor collection piping network,
- b. One air-cooled heat exchanger
- c. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 81%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 60 days after startup; the corresponding test reports shall be received by KCAPCD within 30 days of test.
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD within 30 days of test,
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations,
6. Authority to Construct # 4008342 are hereby cancelled.

CAUTION: Project was approved on the basis of: (1) aggregate hydrocarbon emissions less than 15 lbm/hr and (2) sulfur compounds (as SO₂) concentration less than 2000 ppm. Should source testing reveal data contrary to the above, Chevron USA must (1) shut-in all well casing vents or (2) petition the Hearing Board for a variance (including \$200 filing fee) to operate in non-compliance while corrective action is taken.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III

11" Street - Suite 250
Bakersfield, California 93301
Phone: (805) 861-3682

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A. Inc. Western Region Production

MAILING ADDRESS:

P. O. Box 5355 Bakersfield, California Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 26C, T.32S., R.23E., M.D.B.& M.

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

To combine authority to construct No's 4008319, and 4008342 and refer to new authority to construct as No. 4008319 (STD-23-CC-1, Location Drawing NE-2745).
Add following 20 wells to the Casing Collection System approved on authority to construct No. 4008319. Wells: 48C, 48J, 48G, 258G, 58H, 58K, 68F, 68G, 68H, 78E, 68D, 68C, 65K, 66B, 66L*, 57H*, 67D*, 67G*, 77C*, 77A*.
Increase efficiency of casing steam collection system to 90%.
Change Well 48F to Well 47F.
*An authority to construct and permit to operate were applied for on March 15, 1979 for these six wells.

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

None (Already installed)

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

Pipeline from new wells to collection system - \$100,000

SIGNATURE OF APPLICANT:

C. N. Segnar

OFFICIAL TITLE OF SIGNER
General Manager
Western Region Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. N. Segnar

DATE: JUN 8 1979

PHONE NO. (415) 894-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.



Application No.: 4008343

Date: May 19, 1978

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 30, 1978

TO:

Legal Owner
Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system serving the following wells, Safe Oil Co: 1, 2, 3, 4, 5, 6, 7, 8, 8, & "Princeton" 7; Chaparral Petroleum Inc.: 1, 5, 7, L-5, & one proposed well; Paraffine Oil Co: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; Chevron "Sec.25": 1-3, 1-4, 2-4, 10, 2-3, 8, 2-5, 2-4A, 23, 2-5A, 2-6, 24, 13, 4-4, 3-5, 3-6, 15, 2-7A, 16, 3-9, 3-7, 14, 4-7, 4-8A, 4-8, 9, 4-6, 6, 5, 4-9, 4-9A, "Virginia" 24, & 2 new wells; Chevron 25-C: 1, 23, 17, 8, 9, 20, 18, 3, 7, 210, 21, 10, 19, 211, 16, 206, 22, 12, 13, 213, & 4 new wells, SEE ATTACHED SHEET

Location:

Sec. 25 T22S R23E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon Melchertson, M.D.,
Air Pollution Control Officer

By:

For Period: 8-30-78 to 8-30-80




4008343

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system serving the following wells, Safe Oil Co: 1, 2, 3, 4, 5, 6, 7, 8, 9 & "Princeton"; Chaparral Petroleum Inc: 1, 5, 7, L-5 & 1 proposed well; Paraffine Oil Co. 2,3,4,5,6,7,8,9,10,11,12; Chevron "Sec.25": 1-3,1-4,2-4,10,2-3,8,2-5, 2-4A,23,2-5A,2-6,24,13,4-4,3-5,3-6,15,2-7A,16, 3-9,3-7,14,4-7,4-8A,4-8,9,4-6,6,5,4-9,4-9A,"Virginia" 24, & 2 new wells; Chevron 25-1,23,17,8,9,20,18,3,7,210,21,10,19,211,16,206,22,12,13, 213 & 4 new wells, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,
- e. Provisions for incinerating noncondensable hydrocarbon vapors in steam generator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 85%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations,
6. If hydrocarbon vapor combustion source is not available, well vent vapors shall not be vented to atmosphere.


Thomas Parson, P. E.
Air Sanitation Engineer III

11th Street - Suite 250
Bakersfield, California 93301
Telephone: (805) 861-3682

AUTHORITY TO CONSTRUCT
 PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

1. PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A. Inc., Western Region Production

2. MAILING ADDRESS:

P. O. Box 5355, Bakersfield, California

Zip Code: 93302

3. ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 25C, T.32S., R.23E., M.D.B.&M.

4. GENERAL NATURE OF BUSINESS:

Energy

5. EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

Casing Collection System consisting of a piping network, collection tank, pump, meters and associated controls. This system will also have a cooler with a hydrocarbon recovery efficiency of 93%. The system is to handle the following 84 (77 existing and 7 new) producing wells.

Safe Oil Co: 1, 2, 3, 4, 5, 6, 7, 8, 8, & "Princeton" 7; Chaparral Petroleum Inc.: 1, 5, 7, L-5, & one proposed well; Paraffine Oil Co: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. Chevron "Sec. 25": 1-3, 1-4, 2-4, 10, 2-3, 8, 2-5, 2-4A, 23, 2-5A, 2-6, 24, 13, 4-4, 3-5, 3-6, 15, 2-7A, 16, 3-9, 3-7, 14, 4-7, 4-8A, 4-8, 9, 4-6, 6, 5, 4-9, 4-9A, "Virginia 24, & 2 new wells; Chevron 25-C: 1, 23, 17, 8, 9, 20, 18, 3, 7, 210, 21, 10, 19, 211, 16, 205, 22, 12, 13, 213, & 4 new wells, SEE ATTACHED SHEET.

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

6. TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

\$720,000 including collection system, cooler, vessel and tank.

7. TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

\$100,000 for cooler and tank.

8. SIGNATURE OF APPLICANT:

C. H. Segnar

OFFICIAL TITLE OF SIGNER
General Manager, Production
Western Region

9. TYPE OR PRINT NAME OF SIGNER

NAME: C. H. Segnar

DATE: Aug. 28, 1979

PHONE NO. (415) 894-28

Validation (A.P.C.D. use only)

Date Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

REGISTRATION FEE: \$

RECEIPT NO.

DATE:



Application No.: 4008345

Date: May 19, 1978

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 30, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A., INC.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system serving the following wells, 65K, 65D, 66K, 76F, 76G, 76H, 77H and 77G, including the following equipment and design specifications:

SEE ATTACHED SHEET

Location:

Sec. 26 T32S R23E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By:

8-30-78

to 8-30-80

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-2231

KN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008345

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system serving the following wells, 65K, 65D, 66K, 76F, 76G, 76H, 77H and 77G, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,
- e. Provisions for incinerating noncondensable hydrocarbon vapors in steam generator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 85%,
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project,
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations,
6. If hydrocarbon vapor combustion source is not available, well vent vapors shall not be vented to atmosphere.

A handwritten signature in black ink, appearing to read "Thomas Paxson", written over a horizontal line.

Thomas Paxson, P. E.
Air Sanitation Engineer III

1111 "H" Street - Suite 250
Bakersfield, California 93301
Phone: (805) 861-3682

<input checked="" type="checkbox"/>	AUTHORITY TO CONSTRUCT
<input checked="" type="checkbox"/>	PERMIT TO OPERATE

An application is required for each operation described in part B of instructions.

PERMIT TO BE ISSUED TO: Business license name of Corporation, Company, Individual Owner, Partner, or Governmental Agency which is to operate the following equipment:

Chevron U.S.A. Inc. Western Region Production

MAILING ADDRESS:

P. O. Box 5355 Bakersfield, California Zip Code: 93308

ADDRESS AT WHICH THE EQUIPMENT IS TO BE OPERATED:

Section 26C, T.32S., R.23E., M.D.B.& M.

GENERAL NATURE OF BUSINESS:

Energy

EQUIPMENT DESCRIPTION: Pursuant to the provisions of the State Health and Safety Code and the Rules and Regulations of the Kern County Air Pollution Control District, application is hereby made for the following equipment:

To move position of TRNK/Condenser Setting STD-23-CC3 approximately 700 ft. to the south, reroute lines accordingly, and connect the following 14 wells to the Casing Collection System approved on authority to construct No. 4008345. Wells: 78B, 78F, 78C, 88A, 88B, 88E, 88F, 85D, 86C, 86D, 87B, 87C, 87E., 85F.
Delete Wells 65K, and 66B, which will be tied into the Casing Collection System approved on authority to construct No. 4008319.
Increase efficiency of Casing Steam Collection System to 90%.
Change Well 77G (on Permit 4008345) to existing producing Well 77D.
*Change Well 66K (on Permit 4008345) to existing producing Well 66B.
(See Drawing NE-2745).

(Continue on additional 8 1/2 x 11 page if space above is insufficient.)

TYPE AND ESTIMATED COST OF AIR POLLUTION CONTROL EQUIPMENT:

TYPE AND ESTIMATED COST OF BASIC EQUIPMENT:

Pipelines from new wells to Collection System - \$75,000

SIGNATURE OF APPLICANT:

OFFICIAL TITLE OF SIGNER
General Manager
Western Region Production

TYPE OR PRINT NAME OF SIGNER

NAME: C. H. Segnar

DATE: JUN 8 1979

PHONE NO. (415) 874-2851

Validation (A.P.C.D. use only)

Application Received:

FEE SCHEDULE NUMBER:

FILING FEE: \$

RECEIPT NO.

DATE:

PERMIT FEE: \$

RECEIPT NO.

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California-93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Received with this letter 5/11/79

Application No.: 4008346A

Date: April 13, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 11, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

ONE WELL HEAD CASING VAPOR COLLECTION SYSTEM

See attached sheet for equipment description and conditions

Location:

Sec. 1, T11N, R24W

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 5-11-79 to 5-11-81

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997

Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008346A

EQUIPMENT DESCRIPTION: One Well Head Casing Vapor Collection System serving the following wells 1-2, 1-2A, 1-1, 33, 2-1C, 29, 23, 2-1, 2-2, 3-2, 204, 3-1, 20A, 4-2, 2-2A, 4-1, 5-1, 5-1A, 6-1, 8-A, 32, 212 and 217 including the following equipment and design specifications:

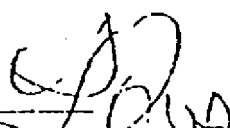
- a. Production well vent vapor collection piping network,
- b. One air-cooled heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 93.1%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling within 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD within 30 days of test.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling with 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD within 30 days of test.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations.
6. Authority to Construct #4008346A is hereby cancelled.
7. A revised well map showing all well collection lines shall be received by KCAPCD prior to start-up.

CAUTION: Project was approved on the basis of 1) aggregate hydrocarbon emissions less than 15 lbm/hr and 2) sulfur compounds (as SO₂) concentration less than 2000 ppm. Should source testing reveal data contrary to the above either 1) all well vents must be shut-in or 2) the KCAPCD Hearing Board must be petitioned for an interim variance (petition must be accompanied by a \$200 filing fee) while corrective action is taken.

23

By 
Thomas Pason, J.P. E.
Air Sanitation Engineer III



Application No.: 4003347A

Date: April 12, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 11, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

ONE WELL HEAD CASING VAPOR COLLECTION SYSTEM #STD-37-CC-1

See attached sheet for equipment description and conditions

Location:

Sec. 2, T11N, R24W

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson M.D.,
Air Pollution Control Officer

By:

For Period: 5-11-79 to 5-1-81

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 987
Bakersfield, California-93302
Telephone (405) 881-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008347A


EQUIPMENT DESCRIPTION: One Well Head Casing Vapor Collector System #STD-37-CC-1 serving the following wells, 58, 80, 33, 68, 50, 19, 76, 52, 51, 49, 77, 70, 78, 59, 74, 73, 41, 53, 71, 84, 69, 55, 55, 47, 66, 57, 46, 56, 75, 45, and 6 new wells including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One air-cooled heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 93.1%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling within 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD with 30 days of test.
3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling with 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD within 30 days of test.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations.
6. Authority to Construct 4008347B is hereby cancelled.
7. KCAPCD shall be notified of new well identification numbers prior to startup.

CAUTION: Project was approved on the basis of 1) aggregate hydrocarbon emissions less than 15 lbs/hr and 2) sulfur compounds (as SO₂) concentration less than 2000 ppm. Should source testing reveal data contrary to the above either 1) all well vents must be shut-in or 2) the KCAPCD Hearing Board must be petitioned for an interim variance (petition must be accompanied by a \$200 filing fee) while corrective action is taken.

By 
Thomas Parson, P.E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3632

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



Application No.: 4008349A

Date: April 13, 1979

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of May 9, 1979

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

ONE WELL HEAD CASING VAPOR RECOVERY SYSTEM #STD-43-CC-1

See attached sheets for equipment and design specifications.

Location:

Sec. 15, T31S, R22E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By: [Signature]

For Period: 5-9-79 to 5-9-81

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 881-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer



4008349A

EQUIPMENT DESCRIPTION: One Well Head Casing Vapor Recovery System #STD-43-CC-1, serving the following wells 8-3, 4-3, 83, 55, 242, 92, 7-4, 48, 96, 41, 53, 241, 61, 59, 63, 8-6, 60, 8-7, 40, 260, 9-7, 70, 50, 8-8, 39, 239, 71, 8-9, 8-10, 8-10A, 9-9, 9-9A, 13, 14D, 29, 51, 57, 62, 75, 78, 82, 102, 103 & 213, including the following equipment and design specifications:

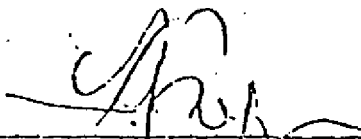
- a. Production well vent vapor collection piping network,
- b. One air-cooled heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 93.7%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling within 60 days after startup of steam generator(s) associated with project; the corresponding test report shall be received by KCAPCD within 30 days of test.
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂, wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling within 60 days after startup of steam Generator(s) associated with project; the corresponding test report shall be received by KCAPCD with 30 days of test.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations,
6. Authority to Construct #4008349 is hereby cancelled.

CAUTION: Project was approved on the basis of 1) aggregate hydrocarbon emissions less than 15 lbm/hr and 2) sulfur compounds (as SO₂) concentration less than 2000 ppm. Should source testing reveal data contrary to the above either 1) all well vents must be shut-in or 2) the KCAPCD Hearing Board must be petitioned for an interim variance (petition must include a \$200 filing fee) while corrective action is taken.

By


Thomas Hanson, P. E.
Air Sanitation Engineer III

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

Changed by KEAPCD Lt
dtb 11/10/78

4008350

Application No.: 4008334

Date: July 20, 1978



AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of August 15, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system serving the following wells, 1-9C, 2-9B, 2-10, 2-10B, 2-10C, 2-11, 2-111, 3-10B, 3-111, 4-8A, 4-9B, 4-10B, 4-11B, 4-11C, 5-9B, 5-10, 5-11A, 5-11B, 22-11, 1-8, 1-9, 1-9A, 1-10, 2-7K, 3-8, 4-7, 5-8, 5-8A, 6-8, 6-9, 6-10, 6-11, 7-9A, 7-10, 7-11 and 21-10A.

SEE ATTACHED SHEET

Location:

Sec. 31, T29S, R22E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be made after an inspection to determine if the equipment has been constructed in accordance with the approved plans and specifications and if the equipment can be operated in compliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations of other governmental agencies which are applicable to the equipment to be constructed. For example, prior clearance must be obtained from the State Department of Industrial Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M. Hebertson, M.D.,
Air Pollution Control Officer

By:

For Period: 8-15-78 to 8-15-80



4008334


EQUIPMENT DESCRIPTION: One well head casing vapor recovery system serving the following wells, 1-9C, 2-9B, 2-10, 2-10B, 2-10C, 2-11, 2-111, 3-10B, 3-111, 4-8A, 4-9B, 4-10B, 4-11B, 4-11C, 5-9B, 5-10, 5-11A, 5-11B, 22-11, 1-8, 1-9, 1-10, 2-7A, 1-9A, 3-8, 4-7, 5-8, 5-8A, 6-8, 6-9, 6-10, 6-11, 7-9A, 7-10, 7-11 and 21-10A, including the following equipment and design specifications:

- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator.

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.
2. Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
3. Final vapor condenser shall utilize exhaust gas temperature indicator,
4. Sulfur compounds (as SO₂ wet condition) concentration shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.
5. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By


Thomas Paxson, P.E.
Air Sanitation Engineer III



Chevron U.S.A. Inc.
 575 Market Street, San Francisco, CA 94105
 P.O. Box 7043, San Francisco, CA 94123

C. N. Segnar
 General Manager
 Production Department
 Western Region

October 20, 1978

517

Authority to Construct
 Casing Vapor Recovery System,
 Section 31, T.29S., R.22E.
 Application No.: 4003334 4003350

Dr. Leon M. Hebertson
 Air Pollution Control Officer
 Kern County Air Pollution Control District
 1700 Flower Street
 Bakersfield, CA 93302

Dear Sir:

We are updating the well numbers contained in the above permit application for a casing vapor recovery system to be installed on Section 31X, Cymric area. Please note that the total number of wells remains unchanged. The system will be installed in two phases. Phase I will be installed first and will include producing wells affected by injectors to be put on-stream late this year. Phase II will be installed to coincide with the start-up of additional injectors planned for mid-1979. The wells as shown on the attached drawing KD-697 are:

Phase I : 1-27, 1-28, 2-10, 2-10B, 2-10C, 2-11B, 2-11A,
 3-10B, 3-11B, 4-8B, 4-9B, 4-10B, 4-11B, 4-11C,
 5-8, 5-11, 5-11B, 5-11C

Phase II: 1-7, 1-8, 1-10, 1-10A, 1-10B, 2-7, 2-7A, 2-10A,
 3-8, 4-7, 5-7, 6-8, 6-8A, 6-10B, 6-11B, 7-8,
 7-10, 7-11

Total : 33 Wells

Further engineering review will be done on Phase II wells and changes in well numbers may be made before the project is complete. We will notify you of any changes after our review is done.

Thank you for your cooperation.

Sincerely,
 Original Signed By
 C. N. SEGNAE

Attachment

cc: Mr. J. L. Rowland
 Mr. A. A. Dulen

**Chevron U.S.A.
VOC Offsets**

SOURCE TEST RESULTS

WESTERN SOURCE

Chevron U.S.A.
VOC Offsets

TABLE 4-1

CHEVRON USA INC. WESTERN SOURCE

WEIGHTED EMISSION FACTOR

APCD #	CHEVRON ID	TEST DATE	UNCONTROLLED		LB/DAY CREDITS @ 99% EFFICIENCY		
			TOTAL H/C LB/HR	LB/DAY PER WELL	# OF WELLS	WEIGHTED EMIS FACT	ACTUAL SRC TEST
317 A	CC-36W-1 ✓	8-12-80	332.13	130.67	61.00	459.52	478.27
318	CT-16Z ✓	8-12-80	126.55	82.09	37.00	278.73	182.23
319 B	CC-26C	8-14-80	283.08	128.19	53.00	399.26	407.64
350	CC-31X	8-13-80	262.66	153.75	41.00	308.86	378.23
APCD CREDITS BASED ON WEIGHTED AVERAGE				250.00			
				125.55	TOTALS	1446.36	1446.36

Chevron U.S.A.
VOC Offsets

TABLE 4-2

CHEVRON USA INC. WESTERN SOURCE

HYDROCARBON CREDITS

APCD #	CHEVRON ID	# OF WELLS	LB/DAY CREDITS @ 99% EFFICIENCY		
			WEIGHTED EMIS FACT	APCD CREDITS	REESTABLISH CREDITS (SMALLER)
317 A	CC-36W-1	61.00	459.52	263.38	263.38
318	CT-162	37.00	278.73	414.60	278.73
319 B	CC-26C	53.00	399.26	457.01	399.26
350	CC-31X	41.00	308.86	397.78	308.86
343 B	15-CC-1	111.00	836.18	882.29	836.18
345 A	CC-26C	38.00	286.26	69.84	69.84
346 A	18-CC-1	22.00	165.73	295.00	165.73
347 A	37-CC-1	40.00	301.33	103.18	103.18
349 A	43-CC-1	40.00	301.33	567.14	301.33
		TOTALS	3337.19	3450.22	2726.48



FIELD DATA SOURCE TEST

Prepared for Chevron USA

Rt. 1 Box 222-A

Bakersfield, Calif. 93308

Attention: Mike Kelley

Regarding: Steam Testing

Regulatory Agency KCAPCD

Purpose Compliance

Test Date 8/4/80 - 8/12/80

Unit Tested:	CC-1-9	303	CC-3-32	307
	CC-3-2	306	CC-2-32	325
	CC-1-5	313	CC-1-32	340
	CT-2-5	316	CC-2-31	326
	CT-3-5	315	CC-1-27	326
	CC-1-31	327	CT-16Z	318
	CC-3-31	325	CC-36W-1	317

Western

Report Number: A-992

Reviewed By: M. J. ...
CHEMECOLOGY CORP.

Tom Sticker

SELECTED RESULTS
SUMMARY

Site	Date	Time	Lb/Hr Recovery		Lb/Hr Loss		Total	% Eff.
			HQ HC	PLT HC	HQ HC	PLT HC		
CC-1-9	8/4	1015	187.0	1.77	3.08	4.85	97	
		1115	187.0	2.22	1.92	4.14	98	
CC-3-2	8/4	1500	neg	0.026	0.043	0.069	1/	
		1840	neg	0.016	0.048	0.064		
CC-1-5	8/5	1125	226.7	19.5	108.1	127.6	64	
		1245	226.7	22.4	120.0	142.4	61	
CT-2-5	8/5	1550	202.8	31.0	251	282	42	
		1650	202.8	13.8	202	215.8	48	
CT-3-5	8/6	1100	53.8	0.75	28.1	28.85	65	
		1205	53.8	1.51	29.8	31.31	63	
CC-1-31	8/6	1425	41.6	1.76	11.7	13.46	76	
		1525	41.6	0.81	11.6	12.41	77	
CC-3-31	8/7	0925	24.5	8.6	504	512.6	5	
		1025	24.5	10.3	425	435.3	5	
CC-3-32	8/7	1315	44.5	0.12	0.047	0.167	99.6	
		1410	44.5	0.30	0.140	0.44	99.0	
CC-2-32	8/8	1030	79.8	0.022	0.036	0.058	99.9	
		1200	79.8	0.050	0.044	0.094	99.9	
CC-1-32	8/8	1425	110.6	0.061	0.093	0.154	99.9	
		1540	110.6	0.075	0.102	0.177	99.9	
CC-2-31	8/11	0950	119.4	1.89	34.8	36.69	76	
		1050	119.4	1.14	44.2	45.34	72	
CC-1-27	8/11	1430	59.5	2.81	5.76	8.57	87	
		1545	59.5	1.28	8.67	9.95	86	
CT-16Z	8/12	1050	34.0	4.49	97.1	101.6	25	
		1200	34.0	1.21	82.3	83.5	29	
CC-36W-1	8/12	1550	328.0	0.92	2.89	3.81	99	
		1705	328.0	1.90	2.55	4.45	99	

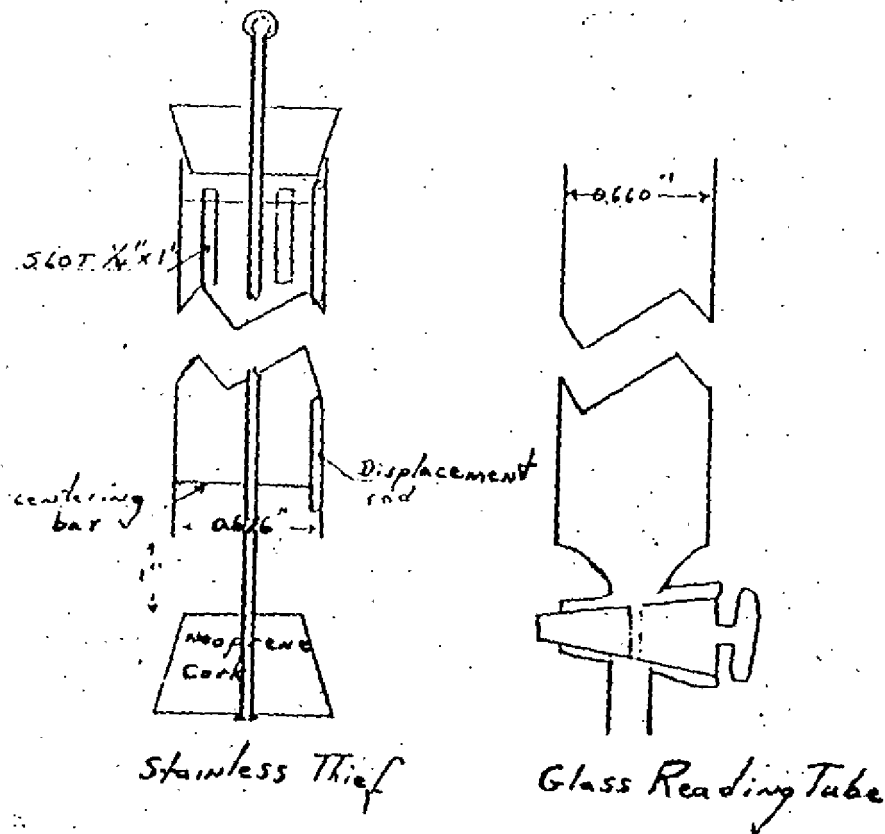
1/ Negative uptake in recovery tank. Unable to calculate % Efficiency.

TANK COLLECTION VOLUME DETERMINATION

Thief Construction:

A stainless steel tube four feet long was constructed with a rod centered by stainless bearings. Neoprene corks were attached to the rod at both ends. The top cork could be lightly seated in the thief tube holding the bottom cork away from the tube and allowing the tube to fill with fluid. A gentle tug on the center rod could unseat the top cork allowing the bottom cork to seal the fluid collection.

A glass reading tube was fabricated with a stopcock at the bottom for direct reading of hydrocarbon height. The thief tube was calibrated to hold the same volume per height as the reading tube by filling with distilled water and adding the correct size displacement rod. See Drawing.



Tank Hydrocarbon Volume Determination:

After tank pump down, the thief tube was lowered through a hole in the tank roof and allowed to descend gently through the hydrocarbon/water layer. The thief was snapped shut when it had descended at least a foot into the water layer. The closed thief was withdrawn from the tank, wiped off, and drained directly into the reading tube for HC height determination. Triplicate samples were taken at the beginning and end of the testing period with the time being recorded. Specific gravity was also determined on this fraction.

Site	INITIAL		FINAL		AVERAGE		Tank Area (IN) ²	sp.gr.	lb/hr
	Date Time	HC HT	Date Time	HC HT	Inches	Mins			
16Z	8/12	2 $\frac{1}{4}$	8/12	2 $\frac{1}{2}$	0.48	265	9633	0.90	34.0
	0930	2 $\frac{1}{4}$	1355	2 $\frac{3}{4}$					
		2 $\frac{1}{2}$		3					
				3					
		2.33 = AVG	2.81 = AVG						
C-36W-1	8/12	26 $\frac{1}{4}$	8/12	26 $\frac{3}{4}$	1.17	180	26770	0.87	328.0
	1520	26	1820	27 $\frac{7}{16}$					
		26		27					
		25 $\frac{3}{4}$		27 $\frac{1}{2}$					
			26.0 = AVG	27.17 = AVG					

PARTICULATE EMISSIONS

Ref: EPA, Code of Federal Regulations, Part 60, Chapter 1, Method 5
: ASME Performance Test Code #27, New York 1957
: Bay Area APCD, Source Test Manual, Revised
: Los Angeles APCD, Air Pollution Test Manual, Los Angeles, CA Nov, 19

Sampling Procedures

The apparatus consisted of a stainless steel nozzle, heater wrapped stainless steel probe and stainless steel section containing the heater wrapped orifice section fitted with a Magnehelic differential pressure gage. A series of impinger-absorbers were connected in tandem and immersed in ice. The absorption train was followed by a gas drying tube containing indicating silica gel, an aspiration pump and a dry test meter.

The computer was used in selection of suitable sampling points, and nozzle size. The apparatus was leak tested, the probe heaters were brought to temperature and the nozzle was positioned at the first sampling point. The pump was immediately started and adjusted to obtain the isokinetic sampling rate.

Duct conditions were monitored throughout the sampling period with a type "S" pitot tube and thermocouple simultaneously positioned at the traverse point. Conditions at the sampling apparatus and metering device were constantly monitored and regularly recorded on the data sheet. Isokinetic sampling rate in terms of orifice differential pressure was calculated by computer for each set of duct and sampling apparatus conditions. Data was relayed between the computer and site by radio.

On completion of sampling from all usable traverse points, the apparatus was removed, sealed from possible contamination and transported to the lab. Replicate samples were taken at each of the available test ports.

An attempt to follow EPA's suggestion of withdrawing the gas sample from the junction of the k.o. pot and silica gel during the isokinetic runs resulted in diluted samples. Prior to isokinetic sampling, a gas grab was taken through an iced coil and gas absorber filled with approximately 100 mls of distilled H₂O. The system was purged with sample until the 200 mls of gas absorber head-space was reduced to about 50 mls of head-space. A gas sampling bag was connected and filled until no more head-space remained in the gas absorber. The system was drained and the procedure repeated until 200 mls of dry gas was collected. Orsat analysis on this gas yielded 75% CO₂ and 0.5% O₂. An integrated gas sample started ten minutes after the isokinetic run was started and taken off the junction of the k.o. pot and silica gel yielded 6% CO₂ and 17.5% O₂. The reasons for this dilution are as follows:

- 1) The stack gas is 80-100% water - very small percentage of fixed gases available.
- 2) The head-space of the three impingers and k.o. pot is about 2 liters - there is not enough dry gas in the high temperature systems to completely purge the air from the head-space.

Gas samples taken from the high temperature, 80-95% H₂O, systems were taken in the above mentioned iced coil manner and analyzed by G.C. in the same manner as the low flow fin fan integrated gas samples.

Analytical Procedure

Analysis of the impinger catch is identical to the procedure explained for low flow systems.

CALCULATIONS (Performed by computer based on the following equations)Symbol Identification:

Subscripts d, m and n denote duct, meter and nozzle, respectively.
Subscripts std, bar and avg denote standard conditions, barometric and average

v = velocity, fps
P = absolute pressure, "Hg
T = absolute temperature, °R
A = area, square feet
Q = volume flow rate, CFM
km = orifice meter constant
MW = molecular weight
ΔH = orifice differential pressure, "H₂O
Cp = pitot tube correction
p = velocity head, "H₂O
V = gas volume, CF
C = hydrocarbon concentration weight/volume
E.R. = lb/hr
mg = mass of particulate collected, mgrams

EQUATIONS

Isokinetic Sampling Rate: (i.e. where Q_n = Q_d)

$$Q_m = Q_n * \frac{P_d}{P_m} * \frac{T_m}{T_d}$$

$$Q_n = 60 * v_d * A_n$$

$$v_d = 85.48 * C_p * \sqrt{\frac{T_d * p}{P_d * MW}}$$

$$Q_m = km * \frac{T_m * H}{P_m * MW}$$

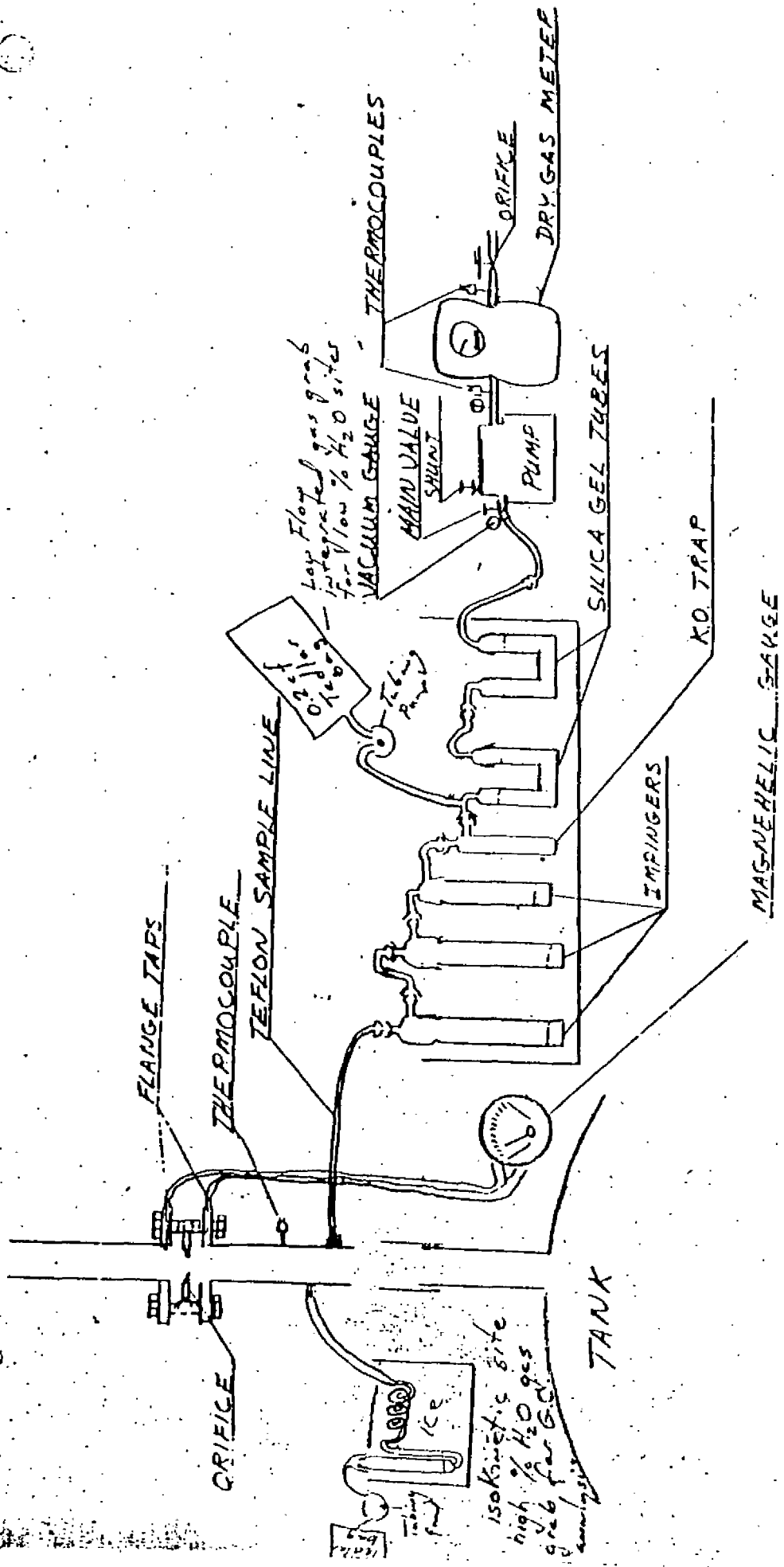
Sampled Volume:

$$V_m(\text{std}) = V_m * T_{\text{std}} * \frac{(P_{\text{bar}} + \Delta H/13.6)}{P_{\text{std}}}$$

Emission Rate: (for high % water sites)

$$\text{lb/hr} = \frac{\text{mg}}{V_m(\text{std}) + \frac{\text{qm H}_2\text{O}}{18 * 1.19}} * 60 * \text{SCFM} * \frac{1}{453,600 \text{ mg/lb}}$$

$$= \frac{\text{mg}}{V_m(\text{std}) + \frac{\text{qm H}_2\text{O}}{18 * 1.19}} * 1.322 * 10^{-4}$$



- Train
- 2 Large Greenburg Smith Impingers w/ 100 ml H₂O
 - 1 Small Greenburg Smith Impinger w/ 50 ml H₂O
 - 1 Empty KO trap
 - 1 Silica gel tube w/ 125 gms silica gel

HYDROCARBON EMISSIONS FROM LOW FLOW KO DRUMS

Ref: "Principles and Practices of Flow Meter Engineering" L.K. Spink
AGA Report #3. EPA Source Manual.

Sampling Procedure:

The apparatus consisted of a cover plate with sampling tap and a threaded three inch insulated orifice run. This section was flanged to accept a series of orifice plates and tapped for temperature differential pressure, and gas sampling points. A series of impinger-absorbers connected in tandem and immersed in ice were joined via a short section of teflon line to the sampling tap located in the cover plate. Due to the extremely low volume experienced, isokinetic sampling was not attempted. The absorption train was followed by a gas drying tube containing indicating silica gel, a diaphragm pump and a dry test meter. A sampling rate of 0.3 cfm was maintained at the meter during sampling. Sampling time was varied to obtain not more than 20 grams of hydrocarbon.

Duct conditions were monitored by two methods depending on the stability of the flow.

- 1) Extremely varied flow - Three sets of readings were obtained at 5 minute intervals (20-30 minute test) or 10 minute intervals (45-60 minute test).

A set of readings consists of differential pressure across an appropriate orifice and temperature of outlet gas every 5 seconds for a one minute time period.

- 2) Stable flow - One reading every 3 minutes (20-30 minute test) or one reading every 5 minutes (45-60 minute test).

EQUATIONS:

$$\text{Flow: } \beta = d/D \quad K_o = \left((0.5993 - \frac{0.007}{D}) - (0.364 - \frac{0.076}{\sqrt{D}}) \beta^4 - 0.4(1.6 - \frac{1}{D})^5 (0.07 - \frac{1}{2D} - \beta)^{5/2} - (0.009 - \frac{0.034}{D}) (0.5 - \beta)^{3/2} - (\frac{65}{D^2} + 3) (\beta - 0.7)^{5/2} \right) \div (1 + 0.000015 (830 - 5000\beta + 9000 \beta^2 - 4200 \beta^3 + \frac{530}{\sqrt{D}}))$$

$$F_b = 339.17 d^2 K_o$$

$$F_b/12.1384 = k'$$

$$\text{ACFM} = Q_o = (k' * \frac{1}{\sqrt{28.85 * \text{sp.gr.} * P_{abs.}}}) * \sqrt{((T + 460) * \Delta p)}$$

$$\text{SCFM} = Q_{std} = Q_o * \frac{520}{T_d + 460} * \frac{P_{abs.}}{29.92}$$

Where: D = pipe i.d. in inches.
d = orifice size in inches
F_b = orifice coefficient

P_{abs} = pressure "Hg
T = temperature, °F
Δp = pressure across orifice,
H₂O

Concurrent with each particulate sampling an integrated gas sample was withdrawn from a tee located between the empty k.o. pot and the silica gel in the particulate train (see drawing). A 0.2 cf Tedlar bag was filled and its volume added to the meter volume for $V_m(\text{std})$ calculation. The bag was analyzed for $C_1 - C_5^+$ hydrocarbons.

Analytical Procedure:

The liquid fraction of the outlet sample collected in the iced impingement train will be analyzed as follows:

- The contents of the Greenburg Smith impingers will be placed in a separatory funnel, the visible hydrocarbon fraction to be gravimetrically determined.
- The impingers, sampling line, H_2O fraction and separatory funnel will be washed at least three times with $MeCl_2$ to extract suspended hydrocarbon, the evaporated results to be gravimetrically determined.
- Both fractions will be added together and an emission rate calculated.

The gas fraction of the outlet sample collected in the tedlar bag will be analyzed as follows:

- A methane standard, and a propane standard of known concentration will be injected into a gas chromatograph equipped with a Poropak Q column and flame ionization detector. A known volume of sample will be similarly injected for quantitative comparison of peak areas produced on the chromatogram.
- $C_1 - C_5$ will be determined in percent volume and lbs/hr.
- C_6 and greater will be backflushed thru the detector and weighed as C_6 in percent volume and lbs/hr.
- Total light hydrocarbons and total lbs/hr excluding methane will be calculated.

EQUATIONS:

x = hydrocarbon component

$$\text{ppm}_x(\text{dry}) = \frac{\text{ppm}}{\text{or } \%} \text{ STD} * \frac{\text{Attenuation}_x}{\text{attenuation}_{\text{std}}} * \frac{\text{area}_x}{\text{area}_{\text{STD}}} * \text{response factor}$$

Ref: "Principles and Practices of Flow Meter Engineering" L.K. Spink
AGA Report #3. EPA Source Manual.

DATA AND RESULTS:

Site CT 16Z Date 8-12-80 Hr. 1050

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	305	100	205
#2 Lg. Grnbrg.	H ₂ O	130	100	30
#3 Sm. Grnbrg.	H ₂ O	20	50	-30
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				208

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	35.38	25.62	9.76	
MeCl ₂ Ext.	57.45	56.00	1.45	
backup filter				
probe wash				
(condensables)				
Total			11.21	

Gas Composition:

CO₂ 59 %vol(dry)
 O₂ 5 " "
 CO _____ " "
 N₂ 36 " "
 H₂O 97.7 "

MW (wet) 18.45
 Excess air _____ %
 Sampled volume .23 SDCF
 Isokinetic rate 100 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 97.1 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CT-16-2 Date 8/12/80 Time 10501.03% C₁ @ 5000X = 73.11.06% C₃ @ 5000X = 16.0

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	42.2	11.9	-
ETHYLENE					
ETHANE	1.41	100	31.5	0.0588	0.042
PROPYLENE					
PROPANE	1.0	100	28.0	0.037	0.039
BUTENES					
BUTANES	0.77	100	30	0.031	0.043
PENTENES					
PENTANES	0.63	100	43	0.036	0.061
> n-PENTANE	0.5	100	3180	2.11	4.3
CARBON MONOXIDE	-	-	-		

SDCFM = 15.0

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 4.49

*methane neglected

DATA AND RESULTS:

S to CT 16Z Date 8-12-80 Hr. 1200

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	205	100	105
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				109

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	29.00	25.62	3.38	
MeCl ₂ Ext	58.47	56.00	2.47	
backup filter				
probe wash				
(condensables)				
Total			5.85	

Gas Composition:

CO₂ 42 %vol(dry)
 O₂ 10 " "
 CO _____ " "
 N₂ 48 " "
 H₂O 82.5 "

MW (wet) 19.97
 Excess air _____ %
 Sampled volume .66 SDCF
 Isokinetic rate 62 %

grainloading:

Co _____ grains/SDCF @ _____ °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 82.8 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CT-16-Z Date 8/12/80 Time 12001.03% C₁ @ 5000X = 73.11.06% C₃ @ 5000X = 16.0

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE	.				
METHANE	1.0	100,000	31.8	9.0	-
ETHYLENE					
ETHANE	1.41	100	29	0.054	0.27
PROPYLENE					
PROPANE	1.0	100	17	0.023	0.17
BUTENES					
BUTANES	0.77	100	16.8	0.017	0.17
PENTENES					
PENTANES	0.63	100	24.2	0.020	0.24
> n-PENTANE	0.5	100	37	0.025	0.36
CARBON MONOXIDE	-	-	-		

SDCFM = 107

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 1.21

*methane neglected

DATA AND RESULTS:

S to CC 36W-1 Date 8-12-80 Hr. 1550

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	195	100	95
#2 Lg. Grnbrg.	H ₂ O	87	100	-13
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				88

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	27.81	25.25	2.56	
MeCl ₂ Ext.	59.87	56.00	3.87	
backup filter				
probe wash				
(condensables)				
			6.43	

Gas Composition:

CO₂ 90 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 10 " "
 H₂O 35.62 "

Total MW (wet) 33.20
 Excess air _____ %
 Sampled volume 7.38 SDCF
 Isokinetic rate _____ %

grainloading:

C_o 13.42 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 2.89 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-36W-1 Date 8/12/80 Time 15501.03% C₁ @ 5000X = 73.11.06% C₃ @ 5000X = 16.0

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	100,000	33.2	9.4	-
ETHYLENE					
ETHANE	1.41	1,000	1.5	0.0028	0.0033
PROPYLENE					
PROPANE	1.0	100	8.0	0.0106	0.019
BUTENES					
BUTANES	0.77	100	7.6	0.0078	0.018
PENTENES					
PENTANES	0.63	100	38	0.032	0.091
> n-PENTANE	0.5	100	349	0.231	0.79
CARBON MONOXIDE	-	-	-		

SOCFM = 25.1

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 0.92

*methane neglected

DATA AND RESULTS:

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	181	100	81
#2 Lg. Grnbrg.	H ₂ O	103	100	3
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				87

Filter Sample: Type: _____

	Final Wt	Tare Wt	Net gram	Co
Vial	36.55	25.63	10.92	
MeCl ₂ Ext.	58.38	56.00	2.38	
backup filter				
			13.30	

Gas Composition:

CO₂ 90 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 N₂ 10 " "
 H₂O 20.53 "

Total MW (wet) 37.39
 Excess air _____ %
 Sampled volume 15.65 SDCF
 Isokinetic rate _____ %

grainloading:

Co 13.09 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 2.55 lbs/hr (dry)

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-36W-1 Date 8/12/80 Time 17051.03% C₁ @ 5000X = 73.11.06% C₃ @ 5000X = 16.0

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	17.2	9.7	-
ETHYLENE					
ETHANE	1.41	1,000	2.0	0.037	0.040
PROPYLENE					
PROPANE	1.0	100	9.0	0.012	0.019
BUTENES					
BUTANES	0.77	100	8.5	0.009	0.019
PENTENES					
PENTANES	0.63	100	34	0.029	0.075
> n-PENTANE	0.5	100	856	0.567	1.75
CARBON MONOXIDE	-	-	-		

SDCFM = 22.7

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr exc. C₁ = 1.90

*methane neglected



**CHEMÉCOLOGY
CORPORATION**

690-B Garcia Ave
Pittsburg, CA 94565
415-439-5766

FIELD DATA SOURCE TEST

Prepared for CHEVRON USA

Rt. 1, Box 222-A

Bakersfield, CA 93308

Attention: Mike Kelley

Regarding: Well Casing vapor recovery

Regulatory Agency K.C.A.P.C.D.

Purpose Compliance

Test Date 8/13, 8/14

Unit Tested: CC-31X, CC-26C

Report Number: A 1002

Reviewed By *[Signature]*
CHEMÉCOLOGY CORP.

SUMMARY (SELECTED RESULTS)

<u>SITE</u>	<u>DATE</u>	<u>TIME</u>	<u>LB/HR RECOVERY</u>		<u>LB/HR LOSS</u>		<u>TOTAL</u>	<u>% EFFICIENCY</u>
			<u>LIQUID HC</u>	<u>LT HC</u>	<u>LIQ. HC</u>			
CC-31X	8/13	1050	262.4	0.023	0.13	0.153	99.9	
	8/13	1217	262.4	0.10	0.27	0.37	99.9	
CC-26C	8/14	1330	282.8	0.11	0.18	0.29	99.9	
	8/14	1540	282.8	0.11	0.15	0.26	99.9	

SITE	INITIAL		FINAL		AVERAGE		TANK AREA (IN) ²	SP.GR.	LB/HR
	DATE & TIME	HC HT	DATE & TIME	HC HT	INCHES	HRS			
<u>CC-31X</u>	8/13 1025	tank drained	8/13 1600	1.75 1.75 1.75 1.75-AVG	1.75	5.583	26770	0.866	262.4
<u>CC-25C</u>	8/14 1230	12.438 12.688 12.563 12.563-AVG	8/14 1655	15.0 15.5 15.5 15.333-AVG	2.770	4.417	14452	0.864	282.8

DATA AND RESULTS:

S to CC 31X Date 8-13-80 Hr. 1050

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Eg. Grnbrg.	H ₂ O	123	100	23
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				27

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	32.60	25.60	7.00	
MeCl ₂ Ext.	57.14	56.00	1.14	
backup filter				
probe wash				
(condensables)				
			Total 8.14	

Gas Composition:

Acid gas as CO₂ 66 %vol(dry)
 O₂ 0 " "
 CO " "
 Light HC plus N₂ 34 " "
 H₂O 6.97 "

MW (wet) 37.13
 Excess air _____ %
 Sampled volume 16.75 SDCF
 Isokinetic rate _____ %

grainloading:

Co 2.48 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. 13 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supp-
 limental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:Sample type CC-31-X Date 8/13/80 Time 10501.03% C₁ @ 10,000X = 47.51.06% C₃ @ 5000X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	200,000	35	15.2	-
ETHYLENE					
ETHANE	1.41	500	8	0.0583	0.0058
PROPYLENE	2.11				
PROPANE	1.0	200	7.5	0.0155	0.0023
BUTENES	1.76	200	4	0.0146	0.0011
BUTANES	0.77	200	3.5	0.0056	0.0011
PENTENES	1.55	200	9	0.0289	0.0067
PENTANES	0.63	200	1.3	0.0017	0.0004
> n-PENTANE	0.50	200	18.5	0.0191	0.0054
CARBON MONOXIDE	-	-	7		

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

SOCFM = 2.09

0.023 lb/hr excl. C₁

*methane neglected

DATA AND RESULTS:

S to CC 31X Date 8-13-80 Hr. 1217

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	125	100	25
#2 Lg. Grnbrg.	H ₂ O	100	100	0
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	129	125	4
Total				29

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	38.22	29.17	9.05	
MeCl ₂ Ext.	57.33	56.09	1.24	
backup filter				
probe wash				
(condensables)				
Total			10.29	

Gas Composition:

Acid gas as CO₂ 66 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 Light HC plus N₂ 34 " "
 H₂O 7.52 "

MW (wet) 37.01
 Excess air _____ %
 Sampled volume 16.59 SDCF
 Isokinetic rate _____ %

grainloading:

Co 9.55 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .27 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

QO₂ = _____ / _____ (QO₂ - QCO₂) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS: Chevron

Sample type CC-31-X Date 8/13/80 Time 12171.03% C₁ @ 10,000 X = 47.51.06% C₃ @ 5,000 X = 20.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200,000	35	15.2	
ETHYLENE	1.50	-			
ETHANE	1.41	500	7.5	0.0547	0.0085
PROPYLENE	2.11	-			
PROPANE	1.00	500	4	0.0207	0.0047
BUTENES	1.76	200	4	0.0146	0.0040
BUTANES	0.77	200	3.5	0.0056	0.0012
PENTENES	1.55	200	8.5	0.0272	0.0098
PENTANES	0.63	200	2.4	0.0031	0.0012
> n-PENTANE	0.50	200	162.5	0.168	0.074
CARBON MONOXIDE	-	-	-		

SDCFM = 3.26

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr excl. C₁ = 0.10

*methane neglected

DATA AND RESULTS:

S to CG-260 Date 8-14-80 Hr. 1330

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	121	100	21
#2 Lg. Grnbrg.	H ₂ O	105	100	5
#3 Lg. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0,0	
drying tube	silica gel	129	125	4
Total				30

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	Co
Vial	37.61	29.33	8.28	
MeCl ₂ Ext.	57.78	56.01	1.77	
backup filter				
probe wash				
(condensables)				
Total			10.05	

Gas Composition:

Acid gas as CO₂ 59 %vol(dry)
 O₂ 1 " "
 CO _____ " "
 Light HC Plus N₂ 40 " "
 H₂O 2.83 " "

MW (wet) 35.96
 Excess air _____ %
 Sampled volume 16.42 SDCF
 Isokinetic rate _____ %

grainloading:

C_o 9.85 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .18 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supp-
 limental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS: Chevron

Sample type CC-26-C Date 8/14/80 Time 13301.03% C₁ @ 10,000 X = 401.06% C₃ @ 5,000 X = 18.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% vol	lb/hr
STD. PROPANE					
METHANE	1.0	200.000	32	16.5	
ETHYLENE	1.50	-			
ETHANE	1.41	500	19	0.153	0.016
PROPYLENE	2.11	-			
PROPANE	1.0	500	12.5	0.072	0.011
BUTENES	1.76	500	2	0.020	0.0039
BUTANES	0.77	500	8	0.035	0.0071
PENTENES	1.55	200	35.5	0.126	0.031
PENTANES	0.63	200	21.5	0.031	0.0078
> n-PENTANE	0.50	500	34.5	0.099	0.0296
CARBON MONOXIDE	-	-	-		

SDCFM = 2.2

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

lb/hr excl. C₁ = 0.11

*methane neglected

DATA AND RESULTS:

Site CC-26C Date 8-14-80 Hr. 1540

Absorber Type	Contents	Final Wt	Tare Wt	Net grams
#1 Lg. Grnbrg.	H ₂ O	123	100	23
#2 Lg. Grnbrg.	H ₂ O	105	100	5
#3 Sm. Grnbrg.	H ₂ O	50	50	0
liquid trap	empty		0.0	
drying tube	silica gel	128	125	3
Total				31

Filter Sample: Type: _____ water collected

	Final Wt	Tare Wt	Net gram	C _o
Vial	36.39	29.31	7.08	
MeCl ₂ Ext.	57.33	56.00	1.33	
backup filter				
probe wash				
(condensables)				
			8.41	

Gas Composition:

Acid gas as CO₂ 64 %vol(dry)
 O₂ 0 " "
 CO _____ " "
 Light HC plus N₂ 36 " "
 H₂O 8.15 "

Total MW (wet) 36.59
 Excess air _____ %
 Sampled volume 16.23 SDCF
 Isokinetic rate _____ %

Dust grainloading:

C_o 7.97 grains/SDCF @ 60 °F and 29.92"Hg
 C _____ grains/SDCF @ _____

Emission Rate:

E.R. .150 lbs/hr

Auxillary Fuel: (data supplied by unit operations)

Fuel type: _____ Rate: _____ SCFM (dry)

Q_{O2} = _____ / _____ (Q_{O2} - Q_{CO2}) = _____ / _____ See supplemental calcs.

C _____ grains/SDCF corrected for no auxillary fuel

E.R. _____ lbs/hr corrected for no auxillary fuel

DATA AND RESULTS:

Sample type CC-26 C Date 8/14/80 Time 1540

1.03% C₁ @ 10,000X = 40 1.06% C₃ @ 5000X = 18.5

COMPONENT	RESPONSE	ATTENUATION	AREA	% VOLUME	LB/HR
STD. PROPANE					
METHANE	1.0	200,000	32	16.5	-
ETHYLENE					
ETHANE	1.41	500	18.5	0.149	0.016
PROPYLENE					
PROPANE	1.00	500	12.5	0.072	0.011
BUTENES	1.26	500	3	0.030	0.0058
BUTANES	0.27	500	8	0.035	0.0071
PENTENES	1.55	200	34	0.121	0.029
PENTANES	0.63	200	29	0.042	0.0105
> n-PENTANE	0.50	500	36.5	0.105	0.031
CARBON MONOXIDE	-	-	-		

Total light hydrocarbons C _____ *ppm vol. (dry)
as carbon C _____ *ppm (dry)

Total olefins C _____ ppm as Carbon _____ ppm

SDCFM = 2.2

0.11 lb/hr excl. C₁

*methane neglected

NEW ERC FILE REQUEST FORM

Processor Initials: RCR Today's Date: 5/7/97

Company Name: Chevron

Project #: 920255 ~~Original Project #:~~ _____

ERC Number(s): S-0037-1

Original Facility Number: S- 1127 Year ERC Issued: —

Description: This Report goes with ERC
Project # 920255

Location: _____ S T R



San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0622-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 9, TOWNSHIP 29S, RANGE 28E
HEAVY OIL WESTERN

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
17625 lbs.	17821 lbs.	18017 lbs.	18017 lbs.

Conditions Attached

Method Of Reduction

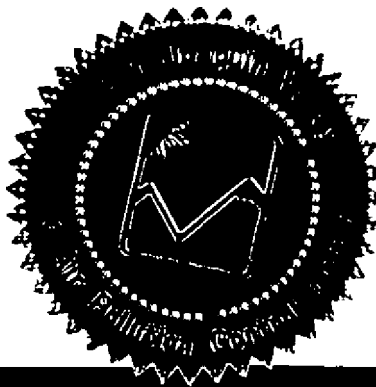
Shutdown of Entire Stationary Source

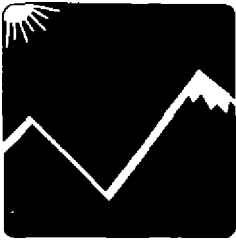
Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0038-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0622-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 9, TOWNSHIP 29S, RANGE 28E
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
553 lbs.	559 lbs.	565 lbs.	565 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

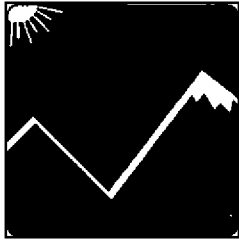
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0038-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
 Unified Air Pollution Control District
 Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate

S-0623-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 32, TOWNSHIP 28S, RANGE 28E applicant
 HEAVY OIL WESTERN

*ERC Project 5-1128
 1044806
 Partial Withdrawal
 to provide VOC
 offsets for ATC
 5-1128-116-31 from
 Project 5-1128, 1032999.
 Remainder reissued to
 Withdrawn ERC
 S-2141-1
 Reissued ERC
 S-2142-1
 12/27/2004*

* For VOC Reduction In The Amount Of: S-2142-1

Quarter 1	Quarter 2	Quarter 3	Quarter 4
29047 lbs.	29369 lbs.	29692 lbs.	29692 lbs.

Conditions Attached

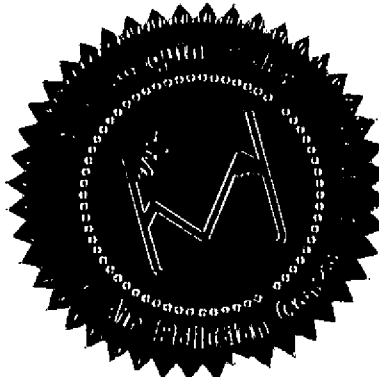
Method Of Reduction

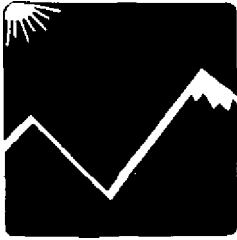
- Shutdown of Entire Stationary Source
- Shutdown of Emissions Unit
- Other: After Ethane Split from ERC Certificate S-0057-1

David L. Crow, APCO

Seyed Sadredin

Seyed Sadredin
 Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0623-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 32, TOWNSHIP 28S, RANGE 28E
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
911 lbs.	921 lbs.	931 lbs.	931 lbs.

Conditions Attached

Method Of Reduction

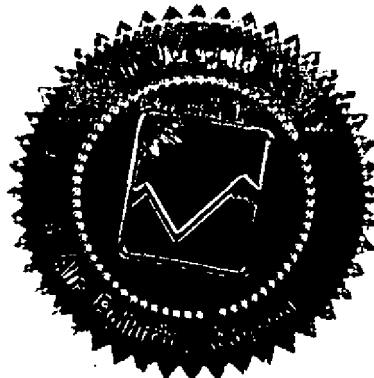
Shutdown of Entire Stationary Source

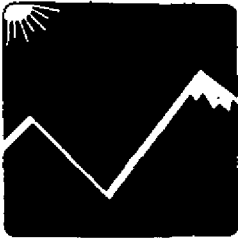
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0057-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate

S-0625-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 3, TOWNSHIP 29S, RANGE 28E
HEAVY OIL WESTERN

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
301 lbs.	304 lbs.	307 lbs.	307 lbs

Conditions Attached

Method Of Reduction

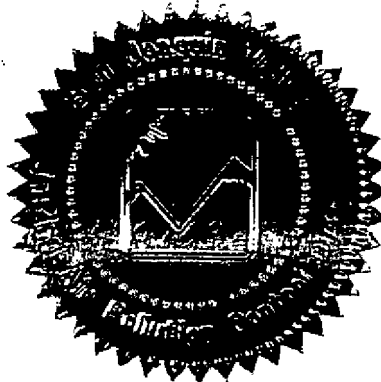
Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0060-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



*Partial Surrendered for
variance Request Doc# S-03-275
BSK 12/8/03*



San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0625-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 3, TOWNSHIP 29S, RANGE 28E
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
9 lbs.	10 lbs.	10 lbs.	10 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

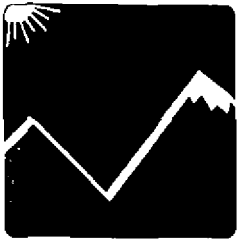
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0060-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0626-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 1, TOWNSHIP 11N, RANGE 24W
HEAVY OIL WESTERN

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
8668 lbs.	8764 lbs.	8860 lbs.	8860 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0061-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0626-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 1, TOWNSHIP 11N, RANGE 24W
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
272 lbs.	275 lbs.	278 lbs.	278 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

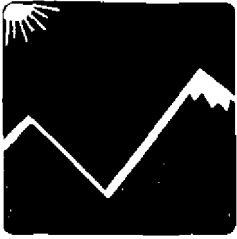
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0061-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0627-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 2, TOWNSHIP 11N, RANGE 24W
HEAVY OIL WESTERN

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
3209 lbs.	3245 lbs.	3281 lbs.	3281 lbs

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

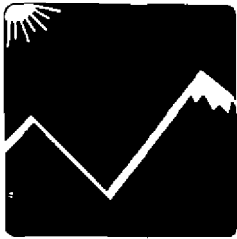
Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0062-1

David L. Crow, APCO

Seyer Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0627-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 2, TOWNSHIP 11N, RANGE 24W
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
101 lbs.	102 lbs.	103 lbs.	103 lbs

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

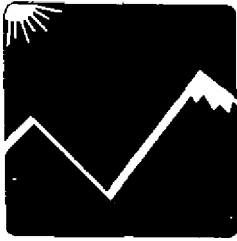
Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0062-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0628-1

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 15, TOWNSHIP 31S, RANGE 22E
HEAVY OIL WESTERN

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
18193 lbs.	18395 lbs.	18598 lbs.	18598 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

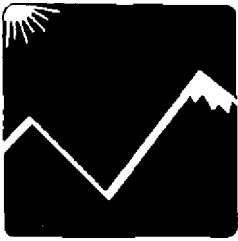
Shutdown of Emissions Unit

Other: After Ethane Split from ERC Certificate S-0063-1

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District
Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0628-6

ISSUED TO: CHEVRON USA

ISSUED DATE: JUNE 11, 1997

LOCATION OF REDUCTION: SECTION 15, TOWNSHIP 31S, RANGE 22E
HEAVY OIL WESTERN

For Ethane Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
570 lbs.	577 lbs.	583 lbs.	583 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Ethane Split from ERC Certificate S-0063-1

David L. Crow, APCO


Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0038-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Western Kern County Oilfields
Section 36, T29S/R21E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
18178 lbs.	18380 lbs.	18582 lbs.	18582 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

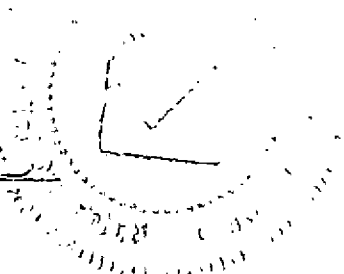
Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

Consumed for ERC's
S-622-1 + S-622-6
project 970463
MWA
5/29/97

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services





San Joaquin Valley Unified Air Pollution Control District

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate S-0056-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

Location of Reduction: **Western Kern County Oilfields**
Section 16, T30S/R22E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
19110 lbs.	19322 lbs.	19535 lbs.	19535 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

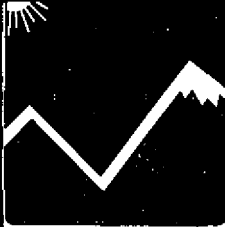
Other: Steam drive well casing collection systems installed prior to April 25, 1983

CONSUMED FOR ERC'S
~~*S-0056-1*~~
S-562-1 & S-562-6
PROJECT 960614

PPV
2/7/97

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0057-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Western Kern County Oilfields
Section 26, T32S/R23E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
29958 lbs.	30290 lbs.	30623 lbs.	30623 lbs.

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Unit
 Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERC's
S-623-1 or S-623-6
Project 970463
MWA
5/29/97*

David L. Crow, APCO

Seyed Sadredin
Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

*PERMITS
S-0563-1 (For Consumption)
S-0564-1 & S-0564-6*

Southern Regional Office * 2700 M St., Suite 275 * Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0058-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

Location of Reduction: **Western Kern County Oilfields**
Section 31, T29S/R22E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
21822 lbs.	22064 lbs.	22307 lbs.	22307 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

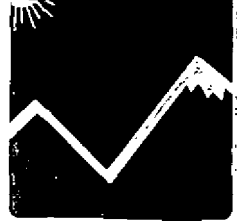
Other: Steam drive well casing collection systems installed prior to April 25, 1983

*CONSUMED BY ERC'S
S-0563-1, S-0564-1 & S-0564-6
PROJECT 960614
RHS
2/7/97*

David L. Crow, APCO

Seyed Sadredin

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0059-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

*Consumed
by project
930332*

Location of Reduction: **Western Kern County Oilfields**
Section 15, T31S/R22E

*mwa
3/21/97*

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2381 lbs.	2407 lbs.	2433 lbs.	2433 lbs.

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Unit
 Other: Steam drive well casing collection systems installed prior to April 25, 1983

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0059-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

District has original

Location of Reduction: **Western Kern County Oilfields**
Section 15, T31S/R22E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2381 lbs.	2407 lbs.	2433 lbs.	2433 lbs.

*SURRENDERED ENTIRE AMOUNT TO IMPLEMENT
IN PERMIT S-1128-385-1 MDL 4/24/96.*

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

David L. Crow, APCO

Seyed Sadredin

Seyed Sadredin
Director of Permit Services



San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0060-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Western Kern County Oilfields
Section 26, T32S/R23E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
310 lbs.	314 lbs.	317 lbs.	317 lbs.

Conditions Attached

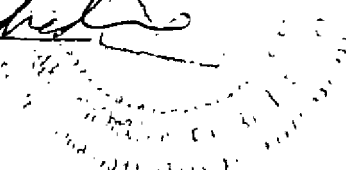
Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Unit
- Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERC's
S-625-1 or S-625-6
project 970463
MWA
5/29/97*

David L. Crow, APCO


Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0061-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

Location of Reduction: **Western Kern County Oilfields**
Section 1, T11N/R24W

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
8940 lbs.	9039 lbs.	9138 lbs.	9138 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

Consumed by ERC's
S-626-1 & S-626-6
project 970463

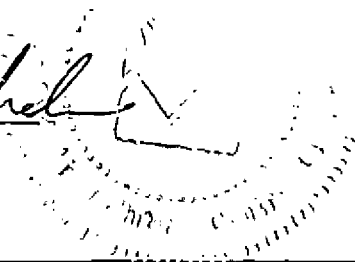
MWA

5/29/97

David L. Crow, APCO

Seyed Sadredin

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0062-1

Issued To: Chevron U.S.A. Inc.
December 21, 1993

Location of Reduction: Western Kern County Oilfields
Section 2, T11N/R24W

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
3310 lbs.	3347 lbs.	3384 lbs.	3384 lbs.

Conditions Attached

Method Of Reduction

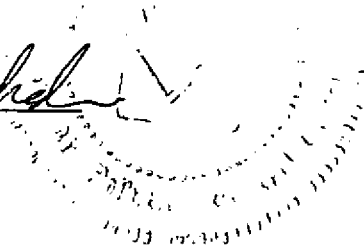
- Shutdown of Entire Stationary Source
 Shutdown of Emissions Unit
 Other: Steam drive well casing collection systems installed prior to April 25, 1983

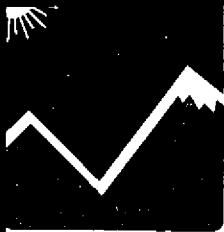
*Consumed by ERCs
S-627-1 + S-627-6
project 970463
MWA
5/29/97*

David L. Crow, APCO

Seyed Sadredin

Seyed Sadredin
Director of Permit Services





San Joaquin Valley
Unified Air Pollution Control District

Southern Regional Office • 2700 M St., Suite 275 • Bakersfield, CA 93301

Emission Reduction Credit Certificate
S-0063-1

Issued To: **Chevron U.S.A. Inc.**
December 21, 1993

Location of Reduction: **Western Kern County Oilfields**
Section 15, T31S/R22E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
18763 lbs.	18972 lbs.	19181 lbs.	19181 lbs.

Conditions Attached

Method Of Reduction

Shutdown of Entire Stationary Source

Shutdown of Emissions Unit

Other: Steam drive well casing collection systems installed prior to April 25, 1983

*Consumed by ERCS
S-628-1 or S-628-6
project 970463
MWA*

5/29/97

David L. Crow, APCO

Seyed Sadredin
Director of Permit Services



4008317/501
92117

	Fresno
	Kern
	Kings
	Madera

San Joaquin Valley
Unified Air Pollution Control District

	Merced
	San Joaquin
	Stanislaus
	Tulare

APPLICATION FOR:

EMISSION REDUCTION CREDIT (ERC)
 CONSOLIDATION OF ERC CERTIFICATES

ERC WITHDRAWAL
 ERC TRANSFER OF OWNERSHIP

1. **ERC TO BE ISSUED TO:**
Chevron U.S.A. Inc.

2. **MAILING ADDRESS:**
Street/P.O. Box: P.O. Box 1392
City: Bakersfield State: CA Zip Code: 93302

3. **LOCATION OF REDUCTION:**
Street: Western Heavy Oil Source - Listed S/T/R -
City: 36/29/21, 16/30/22, 26/32/23, 15/31/22, 31/29/22,
2/11/24, 36/17/24, 25/27/25

4. **DATE OF REDUCTION:** 1980

5. **PERMIT NO(S):** 4008317, 318A, 319B, 350A-343B, 345A-346, 347B, 349C, KPS
EXISTING ERC NO(S):

6. **METHOD RESULTING IN EMISSION REDUCTION:**
 SHUTDOWN RETROFIT PROCESS CHANGE OTHER
DESCRIPTION: These are offsets that occurred prior to adoption of KCAPCD Banking Rule 210.3. Actual reductions were from the installation of casing collection systems to control well emissions.
(Use additional sheets if necessary)

7. **REQUESTED ERCs (In Pounds Per Calendar Quarter):**

	VOC	NOx	CO	PM10	SOx	OTHER
1ST QUARTER	205130					
2ND QUARTER	205130					
3RD QUARTER	205130					
4TH QUARTER	205130					

8. **SIGNATURE OF APPLICANT:** K.P. Skels For / W.A. BROMMELSIEK
TYPE OR PRINT TITLE OF APPLICANT: Manager ESF&H

9. **TYPE OR PRINT NAME OF APPLICANT:** W. A. Brommelsiek
DATE: 11/13/92
TELEPHONE NO: 4458 (805) 633-4455

FOR APCD USE ONLY:

<p>DATE STAMP P A I D NOV 16 1992 SAN JOAQUIN VALLEY UNIFIED APCD—SOUTHERN REGION</p>	<p>FILING FEE RECEIVED: \$ 650. -</p>
	<p>DATE PAID: 11-16-92</p>
	<p>PROJECT NO.: 920225 / 17162</p>

(Addendum to)
ERC APPLICATION REVIEW

Project # 920255

Applicant:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

ERC to be issued to:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

Contact: Kelly Skeels
(805) 633-4458

ERC Application #'s

UD#: S-0037-1, S-0038-1,
S-0064-1, S-0056-1,
S-0065-1, S-0057-1,
S-0066-1, S-0058-1,
S-0067-1, S-0059-1,
S-0068-1, S-0060-1,
S-0061-1,
S-0062-1,
S-0063-1,

Date Deemed Complete: 12/11/92

Project Evaluation by: Robert Rinaldi, AQE II
Started 02/10/93
Finished 05/11/93
Reviewed by: *JR* Date: *9/27/94*

This addendum is the original evaluation with additional discussion in areas where ARB had comments during their audit. (original evaluation attached) *

ALL SUPPORTING DOCUMENTS ARE IN ERC FILE
S-1127-37-1, PROJECT 920255. BOTH STATIONARY
SOURCES WERE PROCESSED AS A SINGLE APPLICATION.

PLY
4/12/96

ERC #'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

I. SUMMARY:

This project banked western and central stationary source pre-April 25, 1983 actual emission reductions by receiving authorization for and providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time. Reductions occurred before a KCAPCD banking rule was adopted. Rules 210.1 and 230.1 (both adopted 9/19/91 and revised 3/11/92) allow for banking of pre-banking rule reductions and reductions in excess of required reductions.

The following emission reductions have been found to qualify for banking (see page 7 for permit #'s that correspond with ERC numbers listed below):

ERC certificate quantities (quarterly basis)

A. Central Stationary Source

1. ERC# S-0037-1

	<u>VOC (lb/qtr)</u>
1st Quarter	88349
2nd Quarter	89330
3rd Quarter	90312
4th Quarter	90312

2. ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

3. ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

4. ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

5. ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

6. ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

Total Central Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	514360
2nd Quarter	520075
3rd Quarter	525790
4th Quarter	525790

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

B. Western Stationary Source

1. ERC# S-0038-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18178
2nd Quarter	18380
3rd Quarter	18582
4th Quarter	18582

2. ERC# S-0056-1

	<u>VOC (lb/qtr)</u>
1st Quarter	19110
2nd Quarter	19322
3rd Quarter	19535
4th Quarter	19535

3. ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	29958
2nd Quarter	30290
3rd Quarter	30623
4th Quarter	30623

4. ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21822
2nd Quarter	22064
3rd Quarter	22307
4th Quarter	22307

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

5. ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	2381
2nd Quarter	2407
3rd Quarter	2433
4th Quarter	2433

6. ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	310
2nd Quarter	314
3rd Quarter	317
4th Quarter	317

7. ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	8940
2nd Quarter	9039
3rd Quarter	9138
4th Quarter	9138

8. ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3310
2nd Quarter	3347
3rd Quarter	3384
4th Quarter	3384

• ERC# S-0059-1 is the result of splitting ERC# S-0063-1 as requested by the applicant. See Chevron letter dated June 28, 1993

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

10. ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18763
2nd Quarter	18972
3rd Quarter	19181
4th Quarter	19181

Total Western Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	122772
2nd Quarter	124136
3rd Quarter	125488
4th Quarter	125488

II. APPLICABLE RULES:

Rule 220.1 - New Source Review (Adopted 9/19/91, revised 3/11/92)

Rule 230.1 - Emission Reduction Credit Banking (3/11/92)

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008302B 4008303B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
4008329B 4008330B 4008331A	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
4008305A 4008306B 4008308B 4008310B 4008311A 4008333A	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
4008313B 4008315A 4008316B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
4008322B 4008323A	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
4008325A 4008327A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1 S-0059-1	(4008317/509) (4008317/505)	Sec. 15 T31S/R22E

• ERC# S-0059-1 is the result of splitting ERC# S-0063-1 as requested by the applicant. See Chevron letter dated June 28, 1993

IV. METHOD OF GENERATING REDUCTIONS:

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile. This amounted to 6434.53 lb/day VOC credits for the Central Source and 3570.62 lb/day VOC credits for the Western Source. These numbers were based on an emission factor of 250 lb VOC/day/well.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had negative emission profile credits set to zero.

The KCAPCD rule provided for reestablishment of reductions that were zeroed provided it was demonstrated the reductions were real, quantifiable, enforceable, permanent and had not been used to offset any subsequent projects.

In October of 1990 Chevron submitted a report requesting that 5,715.11 lb/day VOC for the Central Source and 2,726.48 lb/day VOC for the Western Source be reestablished (lower amounts than reductions quantified in 1980, above). These numbers were based on emission factors of 224.12 lb/day/well Central and 125.55 lb/day/well Western, and baseline emissions are assumed to be these daily amounts per day per well over the two years prior to submittal of application for KCAPCD Rule 411.1 compliance plan listed above. These emission factors appear reasonable as ARB's August 1989 Technical Guidance Document (attached) report steam drive wells as having an emission factor 220 lb VOC/day/well. These emission factors were derived from actual source test information and the District reestablished the Western Source offsets, a portion of which were used to offset a proposed project (4008591 to '600 - New Steam Generators).

ATC# 4008591-600, project number 910411, reestablishes 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable (engineering evaluation is in the appendix, page 1a through 1vv). Although Chevron submitted a similar study with project 910411 for the Central Stationary Source, emission reductions were not reestablished as no project was proposed which required the reductions.

This evaluation will verify the amount of emission reductions (Western and Central) that were used to offset subsequent projects and validate previous analysis performed for the Western Stationary Source and Central Stationary Source reductions as real, quantifiable, permanent and enforceable.

V. CALCULATIONS:

A. Central Stationary Source, ERC# S-0037-01, S-0064-1 to S-0068-1

1. Quantity of offsets reestablished from reductions in Central Stationary Source.

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor for the Central sources was found to be 224.12 lb/day VOC; lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, multiplied by the excess control efficiency of 6 percent, multiplied by the number of wells in service, yields the quantity of emission credits available based on actual source test data. This amount is shown below in column titled "Credits Based on weighted E.F". The credits originally recognized by the District are shown in the column titled "APCD Credits". The applicant has requested the lower of these amounts be banked. The requested amount to be banked is shown in the column titled "Requested to be Banked".

<u>ATC #</u>	<u># Wells</u>	<u>Credits Based on Weighted E.F.</u>	<u>APCD Credits</u>	<u>Request to be Banked</u>
4008302B	25	336.18	374.40	336.18
4008303B	48	645.47	715.00	645.47
4008305B	13	174.81	195.00	174.81
4008306B	26	349.63	390.00	349.63
4008308B	34	457.20	510.00	457.00
4008310B	15	201.71	208.80	201.71
4008311A	28	376.52	418.90	376.52
4008313B	58	779.94	877.50	779.94
4008315A	13	174.81	222.00	174.81
4008316B	28	376.52	463.50	376.52
4008322B	31	416.86	460.30	416.86
4008323A	40	537.89	598.00	537.89
4008325A	29	389.97	432.50	389.97
4008327A	3	40.34	45.00	40.34
4008329B	6	80.68	85.00	80.68
4008330B	4	53.79	40.40	40.40
4008331A	8	107.58	131.40	107.58
4008333A	17	<u>228.60</u>	<u>255.00</u>	<u>228.60</u>
Total		5862.97	5781.40	5715.11

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal.

2. **Subsequent projects using emission reductions.**

The reestablishment test in appendix, page 3 through 24 shows Chevron may claim all proposed reductions as surplus.

3. **Remaining reductions eligible for Emission Reduction Credits**

Rule 2201 requires that AER's be quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data (See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal). This type of emission source (well vent casing collection system) operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. **Community Bank Adjustment**

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

B. Western Stationary Source, ERC# S-0038-01, S-0056-1 to S-0063-1

1. **Quantity of offsets reestablished from reductions in Western Stationary Source.**

ATC# 4008591-600, project number 910411, reestablished 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable. (engineering evaluation is in the appendix, pages 1a through 1v)

2. **Subsequent projects using reestablished emission reductions**

From the reestablishment test in appendix pages 25 through 47, project # 910606 would've exceeded the 150 #/day trigger for offsets in the Rule at that time. Therefore the emissions increase from this project in excess of 150 lb/day is not surplus. The reestablishment test shows Chevron exceeded the 150 lb/day trigger by 531.18 lb/day.

The applicant concurs with this finding (see Chevron letter dated May 7, 1993 in appendix, pages 137 to 169) and has requested the deficit offsets be evenly subtracted from all ERC locations in the Western Stationary Source. Each location was discounted by:

$$\frac{531.18 \text{ lb/day}}{8 \text{ locations}} = 66.4 \text{ lb/day}$$

3. Remaining reductions eligible for Emission Reduction Credits

ERC's are quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data. This type of emission source, well vent casing collection system operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

VI. COMPLIANCE:

A. Rule 220.1 Actual Emission Reduction Requirements:

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources" The report contains source test data and addresses District requirements to show emission reductions are real, permanent, quantifiable, surplus, and enforceable. The report was submitted to satisfy mitigation requirements for installation of 10 new steam generators.

Due to the large volume of data in this report only random reductions were verified, the rest were assumed to be correct. The original documents are contained in the file for ATC's 4008591-600, project # 910411 "support documents" titled "Reestablish VOC Offsets for Central and Western Sources".

ERC #'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

The following is a random row of data from calculation summary listed in table 3-1 (table in appendix, pg 48) found in Chevron's report.

APCD #	Chevron ID	Test Date	Uncontrolled		# of wells	Lb/day offsets @ 99% Eff.		APCD crdts	Restab crdts
			Total HC lb/d	Lb/day Per well		Weighted Emis Fact	Actual Src tst		
4008305B	CC-9-3	7/80	33.65	62.12	13	174.81	48.46	195	174.81

1. Verification of APCD # and that ATC was implemented

ATC# 4008305B appears in the stationary source cumulative net change as a reduction, all proposed ATC #'s were verified as being recognized reductions in the cumulative net change table. (see page from APCD generated NSR balance in appendix, pages 50 to 96, pertinent ATC's are underlined). The computer permit tracking system shows that initial compliance for this ATC was established and a Permit to Operate was granted. The computer system (printouts are in appendix, pages 97 to 112) indicates all other proposed reductions and corresponding ATC's except 4008327A, '329B, and '330B were implemented & issued permits. Kelly Skeels of Chevron submitted a letter dated April 30, 1993 explaining why the alphas A, B, & B for these PTOs were not implemented. The District issued PTO's with out alphas including requirements for vapor recovery (PTO's and letter are in correspondence part of the file). It appears this was an administrative error by the District. These PTO's should be issued with the proper alpha. The District records for these PTO's will be corrected to reflect the actual permit alphas.

2. Verification of Chevron I.D. #

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources". The "Test Permits" section for the Central source was used to verify Chevron I.D.#'s matched District permitted # of wells.

3. Verification of Test date

The test date for ATC# 4008305B was confirmed in the "Summary" part of Chevron's source test report (see appendix page 49). It will be assumed the rest of the dates are accurate.

4. Verification of Total HC lb/day (From source test summary in appendix, page 49)

$$(33.64 + 0.029) + (33.63 + 0.0046) = 33.65$$

2

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day values are accurate.

5. Verification of lb/day per well

For ATC# 4008305B:
$$\frac{(33.63 + .0046) * 24 \text{ hr/day}}{13 \text{ wells}} = 62.12 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day per well values are accurate.

6. Verification of # of wells

The status records for referenced PTO#'s were retrieved from the computer permit tracking system and in all cases the number of wells claimed for emission reductions were less than or equal to the quantity permitted. Therefore the # of wells Chevron is requesting reductions is an accurate and conservative number.

7. Verification of Weighted Emission Factor

Weighted Average =

$$\frac{\text{Summation of (Uncontrolled LB/DAY Per Well x \# of wells)}}{\text{Summation of \# of wells}} =$$

$$\frac{(97716.32)^{****}}{436} = 224.12 \text{ \#/well/day}$$

**** See page 48A in appendix for calculation of this value

This value agrees with Chevron's calculated value and is more conservative than the District's factor of 250 #/well/day

8. Verification of Credits Based on Weighted E.F.

Credits Based on Weighted Emission Factor =

$$\# \text{ of wells} \times 224.1 \times \frac{(99\% - 93\%)}{100}$$

For PTO# 4008305B
$$13 \times 224.1 \times 0.06 = 174.8 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the weighted emission factors are accurate.

9. Verification of offsets generated from actual source test

$$\text{lb/day per well} \times \# \text{ of wells} \times \frac{(99\% - 93\%)}{100}$$

$$62.12 \times 13 \times .06 = 48.5 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the actual source test information is accurate. This calculation seems to be for informational purposes only, as the applicant is proposing to calculate emission reductions using the conservative weighted emission factor (above). The sum of the "weighted emission factors" (table 3-1 in appendix) are the same as the sum of the "actual source test" data even though weighted emission factors and actual source test data values vary for isolated permits. This verifies the accuracy of the weighted emission factor.

10. Verification of APCD credits

$$\# \text{ of wells} \times 250 \times \frac{(99\% - 93\%)}{100} =$$

$$13 \times 250 \times .06 = 195 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the originally approved APCD credits are correct.

11. Verification of Reestablished Credits

The applicant is proposing to use the actual weighted emission factor to calculate reductions. In all cases this value is lower than the 250 lb/day/well used in the original calculations.

B. Rule 230.1 Emission Reduction Credit Eligibility Requirements:

For emission reductions to qualify for ERC certificates, reductions must be:

1. **REAL, ie. actually occurred and not transferred to another emission unit(s).**

The credits requested are real as Chevron is currently incinerating all casing head gas from the casing gas collection systems in district approved steam generators and source tests indicate HC emission limits are not being exceeded. Permits to Operate have been granted for all Authorities to Construct.

2. **SURPLUS, ie. not required or encumbered by any laws, rules, regulations, or already used as offsets.**

If the summation (excluding the reduction in question) of the emission rate changes (since 9/12/79) never at any point equals or exceeds the applicable trigger for BACT or offsets (+150 lb/day prior 7/1/91 and 0 lb/day from 7/1/91 to 9/18/91). The selected emission reduction is surplus provided that it was proposed before any rule would have required the reduction.

The summation explained above was performed on the cumulative net change table for the Western and Central Stationary Sources (see "Reestablishment tests for HC" in appendix, pages 3 to 48). No trigger levels were exceeded in the central source. In the western source emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This amount was subtracted from the proposed reductions to be banked as not surplus (see CALCULATIONS section above).

Therefore emission reductions are surplus.

3. **PERMANENT, ie. can be enforced by permit conditions.**

The credits requested are permanent as maintenance of controls has been made condition of the permits to operate.

4. **QUANTIFIABLE, ie. source test data, fuel consumption or process weight information, recognized emission factors, or other data approved by the Control Officer is available to accurately determine the emissions during the baseline period.**

The credits requested are quantifiable based on source tests performed on emission units.

5. **ENFORCEABLE, ie. can be enforced by applicable permit conditions.**

Same discussion as "permanent" above. The emission reduction is enforceable.

6. **TIMELY,**

Pursuant to "Eligibility of Emission Reductions" requirements for recognizing reductions in the banking rule adopted September 19, 1991 (rule in appendix, pages 127 to 132), subsection IV.A.2.a states that applications requesting ERC's for emission reductions prior to January 1, 1988 must be submitted within 180 days of date of rule adoption (i.e. by March 16, 1993). Chevron submitted an application March 16, 1992.

This establishes compliance with timeliness requirements in Rule 230.1 (adopted September 19, 1991). The application was deemed complete

ERC #'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

prior to adoption of the December 17, 1992 revision of the banking rule. Therefore it will not be subject to Rule's 2301 discounting or mitigation measures in the amended rule.

7. INCLUDED in or have been added to the 1987 emissions inventory,

District planning staff will be notified of these reductions upon issuance for inclusion in AQAP updates (copy of memo to planning department in appendix pages 170 to 176)

VII. RECOMMENDATION:

- A. Because these emissions reductions can be validated as Actual Emission Reductions, and have been calculated in accordance with the requirements of Rules 2201 and 2301, they qualify for an ERC banking certificate and may be used in accordance with the requirements of Rule 2201.
- B. The proposed emissions reductions are real, surplus, permanent, quantifiable and enforceable.
- C. Application requested a 90 day extension to resolve some discrepancies in original submittal and to decide (and review) what to do about the findings from the reestablishment test. The emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This increase was subtracted from the proposed reductions to be banked (shown in CALCULATIONS section above).
- D. After the appropriate public comment period, issue ERC Banking Certificates in the quantities shown in the Summary section, above.

State of California
AIR RESOURCES BOARD
Technical Support Division

Technical Guidance Document
for the
Emission Inventory Criteria and Guidelines Regulation
for AB 2588
(Air Toxics "Hot Spots" Information and
Assessment Act of 1987)

Prepared By

Technical Support Division
With the Participation of the
AB 2588 Technical Advisory Committee

August 1989

TABLE D-1

CATEGORY		EMISSION FACTORS
Well Cellars		Same as sump
Oil/Water Separators (SOURCE: BAAQMD TEST RESULTS)		925 lbs VOC/MM Gallon Wastewater (uncontrolled) (85% control efficiency with cover)
SUMPS		
Light Crude ^a		
	Primary Sumps	0.142 lbs ROG/sq ft -day
	Secondary	0.019 lbs ROG/sq ft -day
	Tertiary	0.009 " "
Heavy Crude ^b		
	Primary Sumps	0.097 " "
	Secondary	0.013 " "
	Tertiary	0.006 " "
Pumps		0.004 lb ROG/well-day
Compressors		0.07 lb ROG/well-day
Well Heads		0.01 lb ROG/well-day
Steam Drive Wells		3610 lb ROG/well-year (Controlled)
Steam Drive wells (VOC)		220 lbs/well/day (Uncontrolled)
Cyclic Steam Wells (VOC)		3.6 lbs/well/day (Uncontrolled)
Cyclic Wells		1210 lb ROG/well-year (Controlled)
"Pseudocyclic" wells (Tertiary)		110 lb/day/well

a Extrapolated from API/Rockwell and ARB test results.

b Results obtained from ARB testing between 1983 - 1986.

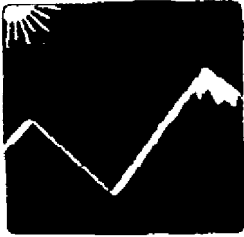
TRANSACTION REPORT

P. 01

SEP-27-94 TUE 16:11

SEND (M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-27	15:59	919164455023	12' 07"	19	SEND	(M) OK	063	
TOTAL				12M 7S	PAGES:	19		



San Joaquin Valley
 Unified Air Pollution Control District

FAX Transmittal Sheet

Southern Region

2700 "M" Street, Suite 275

Bakersfield, CA 93301

Voice: (805) 861-3682

FAX: (805) 861-2060

Date: 9/13/94

To: Leslie Stern ARB
 Name Company

From: Robert Rinaldi

Total Pages (including cover page): 19 Fax No.: (916) 445-5023

Comments: Addendum to ERC Project 920255 for Chevron

ERC APPLICATION REVIEW

Project # 920255

Applicant:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

ERC to be issued to:

Chevron U.S.A. Inc.
P.O. Box 1392
Bakersfield, CA 93302

Contact: Kelly Skeels
(805) 633-4458

ERC Application #'s

UD#: S-0037-1, S-0038-1,
S-0064-1, S-0056-1,
S-0065-1, S-0057-1,
S-0066-1, S-0058-1,
S-0067-1, S-0059-1,
S-0068-1, S-0060-1,
S-0061-1,
S-0062-1,
S-0063-1,

Date Deemed Complete: 12/11/92

Project Evaluation by: Robert Rinaldi, AQE II
Started 02/10/93
Finished 05/11/93
Reviewed by: RR Date: 6/9/93

I. SUMMARY:

The following emission reductions have been found to qualify for banking:

ERC certificate quantities (quarterly basis)

A. Central Stationary Source

✓ 1. ERC# S-0037-1

	<u>VOC (lb/qtr)</u>
1st Quarter	88349
2nd Quarter	89330
3rd Quarter	90312
4th Quarter	90312

✓ 2. ERC# S-0064-1

	<u>VOC (lb/qtr)</u>
1st Quarter	20579
2nd Quarter	20808
3rd Quarter	21037
4th Quarter	21037

✓ 3. ERC# S-0065-1

	<u>VOC (lb/qtr)</u>
1st Quarter	160962
2nd Quarter	162751
3rd Quarter	164539
4th Quarter	164539

✓ 4. ERC# S-0066-1

	<u>VOC (lb/qtr)</u>
1st Quarter	119814
2nd Quarter	121146
3rd Quarter	122477
4th Quarter	122477

✓ 5. ERC# S-0067-1

	<u>VOC (lb/qtr)</u>
1st Quarter	85928
2nd Quarter	86882
3rd Quarter	87837
4th Quarter	87837

✓ 6. ERC# S-0068-1

	<u>VOC (lb/qtr)</u>
1st Quarter	38728
2nd Quarter	39158
3rd Quarter	39589
4th Quarter	39589

Total Central Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	514360
2nd Quarter	520075
3rd Quarter	525790
4th Quarter	525790

B. Western Stationary Source

1. ERC# S-0038-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18178
2nd Quarter	18380
3rd Quarter	18582
4th Quarter	18582

2. ERC# S-0056-1

	<u>VOC (lb/qtr)</u>
1st Quarter	19110
2nd Quarter	19322
3rd Quarter	19535
4th Quarter	19535

3. ERC# S-0057-1

	<u>VOC (lb/qtr)</u>
1st Quarter	29958
2nd Quarter	30290
3rd Quarter	30623
4th Quarter	30623

4. ERC# S-0058-1

	<u>VOC (lb/qtr)</u>
1st Quarter	21822
2nd Quarter	22064
3rd Quarter	22307
4th Quarter	22307

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

5. ERC# S-0059-1

	<u>VOC (lb/qtr)</u>
1st Quarter	2381
2nd Quarter	2407
3rd Quarter	2433
4th Quarter	2433

6. ERC# S-0060-1

	<u>VOC (lb/qtr)</u>
1st Quarter	310
2nd Quarter	314
3rd Quarter	317
4th Quarter	317

7. ERC# S-0061-1

	<u>VOC (lb/qtr)</u>
1st Quarter	8940
2nd Quarter	9039
3rd Quarter	9138
4th Quarter	9138

8. ERC# S-0062-1

	<u>VOC (lb/qtr)</u>
1st Quarter	3310
2nd Quarter	3347
3rd Quarter	3384
4th Quarter	3384

* See Chevron letter dated June 28, 1993 - This ERC is result of
splitting S-63-1 (at location S15, T31S/R22E)
Page 5

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

10. ERC# S-0063-1

	<u>VOC (lb/qtr)</u>
1st Quarter	18763
2nd Quarter	18972
3rd Quarter	19181
4th Quarter	19181

Total Western Stationary Source

	<u>VOC (lb/qtr)</u>
1st Quarter	122772
2nd Quarter	124136
3rd Quarter	125488
4th Quarter	125488

II. APPLICABLE RULES:

Rule 220.1 - New Source Review (Adopted 9/19/91, revised 3/11/92)

Rule 230.1 - Emission Reduction Credit Banking (3/11/92)

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
✓4008302B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
✓4008303B			
4008329B	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
4008330B			
4008331A			
✓4008305B	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
✓4008306B			
✓4008308B			
✓4008310B			
✓4008311A			
4008333A			
✓4008313B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
✓4008315A			
✓4008316B			
✓4008322B	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
✓4008323A			
✓4008325A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E
✓4008327A			

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008343B	S-0059-1	(4008317/505)	Sec. 25 T32S/R23E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1	(4008317/509)	Sec. 15 T31S/R22E
	*S-0059-1	(4008317/505)	

*This ATC not implemented
See phone conversation dated 9/1/93 with Kelly Skeels
Therefore remove from list of reductions*

* See Chevron letter dated June 28, 1993

IV. METHOD OF GENERATING REDUCTIONS:

In January of 1980 Chevron submitted and received approval for a plan to comply with KCAPCD Rule 411.1 which required 93% VOC control of steam drive well casing gas by 1982. Chevron's plan called for 99% control. The 6% difference between the 93% required and the 99% actual was credited by the APCD to Chevron's cumulative profile. This amounted to 6434.53 lb/day VOC credits for the Central Source and 3570.62 lb/day VOC credits for the Western Source. These numbers were based on an emission factor of 250 lb VOC/day/well.

In June of 1987 the KCAPCD adopted a revised Rule 210.1. One effect of this rule change was that facilities had negative emission profile credits set to zero.

The KCAPCD rule provided for reestablishment of reductions that were zeroed provided it was demonstrated the reductions were real, quantifiable, enforceable, permanent and had not been used to offset any subsequent projects.

In October of 1990 Chevron submitted a report requesting that 5,715.11 lb/day VOC for the Central Source and 2,726.48 lb/day VOC for the Western Source be reestablished. These numbers were based on emission factors of 224.12 lb/day Central and 125.55 lb/day Western. These emission factors were derived from actual source test information and the District reestablished the Western Source offsets, a portion of which were used to offset a proposed project (4008591 to '600 - New Steam Generators)

ATC# 4008591-600, project number 910411, reestablishes 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable (engineering evaluation is in the appendix, page 1a through 1vv). Although Chevron submitted a similar study with project 910411 for the Central Stationary Source, emission reductions were not reestablished as no project was proposed which required the reductions.

This evaluation will verify the amount of emission reductions (Western and Central) that were used to offset subsequent projects and validate previous analysis performed for the Western Stationary Source and Central Stationary Source reductions as real, quantifiable, permanent and enforceable.

V. CALCULATIONS:

A. Central Stationary Source, ERC# S-0037-01, S-0064-1 to S-0068-1

1. Quantity of offsets reestablished from reductions in Central Stationary Source.

In 1980 the APCD based emission credits on an average uncontrolled emission factor of 250 lb/day/well. The variability of the lb/day/well measured at each individual site shows the need to use a common emission factor for an accurate comparison. A weighted emission factor was calculated by dividing the total number of wells in service on the sources tested by the total lb/day emissions from the sources tested. The weighted emission factor for the Central sources was found to be 224.12 lb/day VOC; lower than the 250 lb/day used in the 1980 emission profiles. Using the weighted emission factor, multiplied by the excess control efficiency of 6 percent, multiplied by the number of wells in service, yields the quantity of emission credits available based on actual source test data. This amount is shown below in column titled "Credits Based on weighted E.F.". The credits originally recognized by the District are shown in the column titled "APCD Credits". The applicant has requested the lower of these amounts be banked. The requested amount to be banked is shown in the column titled "Requested to be Banked".

<u>ATC #</u>	<u># Wells</u>	<u>Credits Based on Weighted E.F.</u>	<u>APCD Credits</u>	<u>Request to be Banked</u>
4008302B	25	336.18	374.40	336.18
4008303B	48	645.47	715.00	645.47
4008305B	13	174.81	195.00	174.81
4008306B	26	349.63	390.00	349.63
4008308B	34	457.20	510.00	457.00
4008310B	15	201.71	208.80	201.71
4008311A	28	376.52	418.90	376.52
4008313B	58	779.94	877.50	779.94
4008315A	13	174.81	222.00	174.81
4008316B	28	376.52	463.50	376.52
4008322B	31	416.86	460.30	416.86
4008323A	40	537.89	598.00	537.89
4008325A	29	389.97	432.50	389.97
4008327A	3	40.34	45.00	40.34
4008329B	6	80.68	85.00	80.68
4008330B	4	53.79	40.40	40.40
4008331A	8	107.58	131.40	107.58
4008333A	17	<u>228.60</u>	<u>255.00</u>	<u>228.60</u>
Total		5862.97	5781.40	5715.11 ✓

See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal.

2. Subsequent projects using emission reductions.

The reestablishment test in appendix, page 3 through 24 shows Chevron may claim all proposed reductions as surplus.

3. Remaining reductions eligible for Emission Reduction Credits

Rule 2201 requires that AER's be quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data (See "COMPLIANCE Rule 220.1 Actual Emission Reduction Requirements:" below for a sample verification of calculations reported in applicants submittal). This type of emission source (well vent casing collection system) operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

B. Western Stationary Source, ERC# S-0038-01, S-0056-1 to S-0063-1

1. Quantity of offsets reestablished from reductions in Western Stationary Source.

ATC# 4008591-600, project number 910411, reestablished 2,726.48 lb VOC/day in the Western Stationary Source as real, actual, permanent, quantifiable, and enforceable. (engineering evaluation is in the appendix, pages 1a through 1v)

2. Subsequent projects using reestablished emission reductions

From the reestablishment test in appendix pages 25 through 47, project # 910606 would have exceeded the 150 #/day trigger for offsets in the Rule at that time. Therefore the emissions increase from this project in excess of 150 lb/day is not surplus. The reestablishment test shows Chevron exceeded the 150 lb/day trigger by 531.18 lb/day.

The applicant concurs with this finding (see Chevron letter dated May 7, 1993 in appendix, pages 137 to 169) and has requested the deficit offsets be evenly subtracted from all ERC locations in the Western Stationary Source. Each location was discounted by:

$$\frac{531.18 \text{ lb/day}}{8.9 \text{ locations}} = \frac{59.02 \text{ lb/day}}{1} = 66.398$$

3. Remaining reductions eligible for Emission Reduction Credits

ERC's are quantified in lbs/quarter. Previous emission reduction calculations used a daily emission factor derived from source test data. This type of emission source, well vent casing collection system operates at the same rate each day. Therefore the quarterly ERC may be determined by multiplying the daily reduction by the number of days in each calendar quarter.

See Summary section above for a breakdown of these emissions reductions by location converted to quarterly value.

4. Community Bank Adjustment

These reductions occurred prior to establishment of the community bank therefore will not be discounted by 10% for community bank funding.

VI. COMPLIANCE:

A. Rule 220.1 Actual Emission Reduction Requirements:

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources" The report contains source test data and addresses District requirements to show emission reductions are real, permanent, quantifiable, surplus, and enforceable. The report was submitted to satisfy mitigation requirements for installation of 10 new steam generators.

Due to the large volume of data in this report only random reductions were verified, the rest were assumed to be correct. The original documents are contained in the file for ATC's 4008591-600, project # 910411 "support documents" titled "Reestablish VOC Offsets for Central and Western Sources".

The following is a random row of data from calculation summary listed in table 3-1 (table in appendix, pg 48) found in Chevron's report.

APCD #	Chevron ID	Test Date	Uncontrolled		# of wells	Lb/day offsets @ 99% Eff.		APCD crdts	Restab crdts
			Total HC lb/d	Lb/day Per well		Weighted Emis Fact	Actual Src tst		
4008 305B	CC-9-3	7/80	33.65	62.12	13	174.81	48.46	195	174.81

1. Verification of APCD # and that ATC was implemented

ATC# 4008305B appears in the stationary source cumulative net change as a reduction, all proposed ATC #'s were verified as being recognized reductions in the cumulative net change table. (see page 6 from APCD generated NSR balance in appendix, pages 50 to 96, pertinent ATC's are underlined). The computer permit tracking system shows that initial compliance for this ATC was established and a Permit to Operate was granted. The computer system (printouts are in appendix, pages 97 to 112) indicates all other proposed reductions and corresponding ATC's except 4008327A, '329B, and '330B were implemented & issued permits. Kelly Skeels of Chevron submitted a letter dated April 30, 1993 explaining why the alphas A, B, & B for these PTOs were not implemented. The District issued PTO's with out alphas including requirements for vapor recovery (PTO's and letter are in correspondence part of the file). It appears this was an administrative error by the District. These PTO's should be issued with the proper alpha. The District records for these PTO's will be corrected to reflect the actual permit alphas.

2. Verification of Chevron I.D. #

Chevron U.S.A. submitted a report in October of 1990 titled "Reestablish VOC Offsets for Central and Western Sources". The "Test Permits" section for the Central source was used to verify Chevron I.D.#'s matched District permitted # of wells.

3. Verification of Test date

The test date for ATC# 4008305B was confirmed in the "Summary" part of Chevron's source test report (see appendix page 49). It will be assumed the rest of the dates are accurate.

4. Verification of Total HC lb/day (From source test summary in appendix, page 49)

$$(33.64 + 0.029) + (33.63 + 0.0046) = 33.65$$

ERC#'s: S-0037-1 through S-0038-1 and S-0056-1 through S-0068-1

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day values are accurate.

5. Verification of lb/day per well

For ATC# 4008305B:

$$\frac{(33.63 + .0046) * 24 \text{ hr/day}}{13 \text{ wells}} = 62.12 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the lb/day per well values are accurate.

6. Verification of # of wells

The status records for referenced PTO#'s were retrieved from the computer permit tracking system and in all cases the number of wells claimed for emission reductions were less than or equal to the quantity permitted. Therefore the # of wells Chevron is requesting reductions is an accurate and conservative number.

7. Verification of Weighted Emission Factor

Weighted Average =

$$\frac{\text{Summation of (Uncontrolled LB/DAY Per Well x \# of wells)}}{\text{Summation of \# of wells}} =$$

$$\frac{(97716.32)^{****}}{436} = 224.12 \text{ \#/well/day}$$

**** See page 48A in appendix for calculation of this value

This value agrees with Chevron's calculated value and is more conservative than the District's factor of 250 #/well/day

8. Verification of Credits Based on Weighted E.F.

Credits Based on Weighted Emission Factor =

$$\# \text{ of wells} \times 224.1 \times \frac{(99\% - 93\%)}{100}$$

For PTO# 4008305B

$$13 \times 224.1 \times 0.06 = 174.8 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the weighted emission factors are accurate.

9. Verification of offsets generated from actual source test

$$\text{lb/day per well} \times \# \text{ of wells} \times \frac{(99\% - 93\%)}{100}$$

$$62.12 \times 13 \times .06 = 48.5 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the actual source test information is accurate. This calculation seems to be for informational purposes only, as the applicant is proposing to calculate emission reductions using the conservative weighted emission factor (above). The sum of the "weighted emission factors" (table 3-1 in appendix) are the same as the sum of the "actual source test" data even though weighted emission factors and actual source test data values vary for isolated permits. This verifies the accuracy of the weighted emission factor.

10. Verification of APCD credits

$$\# \text{ of wells} \times 250 \times \frac{(99\% - 93\%)}{100} =$$

$$13 \times 250 \times .06 = 195 \text{ lb/day}$$

This value agrees with the value listed in table 3-1. It will be assumed that the rest of the originally approved APCD credits are correct.

11. Verification of Reestablished Credits

The applicant is proposing to use the actual weighted emission factor to calculate reductions. In all cases this value is lower than the 250 lb/day/well used in the original calculations.

B. Rule 230.1 Emission Reduction Credit Eligibility Requirements:

For emission reductions to qualify for ERC certificates, reductions must be:

1. REAL, ie. actually occurred and not transferred to another emission unit(s).
The credits requested are real as Chevron is currently incinerating all casing head gas from the casing gas collection systems in district approved steam generators and source tests indicate HC emission limits are not being exceeded. Permits to Operate have been granted for all Authorities to Construct.

2. SURPLUS, ie. not required or encumbered by any laws, rules, regulations, or already used as offsets.

If the summation (excluding the reduction in question) of the emission rate changes (since 9/12/79) never at any point equals or exceeds the applicable trigger for BACT or offsets (+150 lb/day prior 7/1/91 and 0 lb/day from 7/1/91 to 9/18/91). The selected emission reduction is surplus provided that it was proposed before any rule would have required the reduction.

The summation explained above was performed on the cumulative net change table for the Western and Central Stationary Sources (see "Reestablishment tests for HC" in appendix, pages 3 to 48). No trigger levels were exceeded in the central source. In the western source emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This amount was subtracted from the proposed reductions to be banked as not surplus (see CALCULATIONS section above).

Therefore emission reductions are surplus.

3. PERMANENT, ie. can be enforced by permit conditions.

The credits requested are permanent as maintenance of controls has been made condition of the permits to operate.

4. QUANTIFIABLE, ie. source test data, fuel consumption or process weight information, recognized emission factors, or other data approved by the Control Officer is available to accurately determine the emissions during the baseline period.

The credits requested are quantifiable based on source tests performed on emission units.

5. ENFORCEABLE, ie. can be enforced by applicable permit conditions.

Same discussion as "permanent" above. The emission reduction is enforceable.

6. TIMELY,

Pursuant to "Eligibility of Emission Reductions" requirements for recognizing reductions in the banking rule adopted September 19, 1991 (rule in appendix, pages 127 to 132), subsection IV.A.2.a states that applications requesting ERC's for emission reductions prior to January 1, 1988 must be submitted within 180 days of date of rule adoption (i.e. by March 16, 1993). Chevron submitted an application March 16, 1992.

This establishes compliance with timeliness requirements in Rule 230.1 (adopted September 19, 1991). The application was deemed complete

prior to adoption of the December 17, 1992 revision of the banking rule. Therefore it will not be subject to Rule's 2301 discounting or mitigation measures in the amended rule.

7. INCLUDED in or have been added to the 1987 emissions inventory,

District planning staff will be notified of these reductions upon issuance for inclusion in AQAP updates (copy of memo to planning department in appendix pages 170 to 176)

VII. RECOMMENDATION:

- A. Because these emissions reductions can be validated as Actual Emission Reductions, and have been calculated in accordance with the requirements of Rules 2201 and 2301, they qualify for an ERC banking certificate and may be used in accordance with the requirements of Rule 2201.
- B. The proposed emissions reductions are real, surplus, permanent, quantifiable and enforceable.
- C. Application requested a 90 day extension to resolve some discrepancies in original submittal and to decide (and review) what to do about the findings from the reestablishment test. The emission increase proposed in ATC #'s 4224001A - 4224014A (deemed complete 5/2/91) and ATC #'S 4008317J, 4008352G, and 4008835 (deemed complete 9/5/91) exceeded the 150# trigger level by 531.18 lb/day. This increase was subtracted from the proposed reductions to be banked (shown in CALCULATIONS section above).
- D. After the appropriate public comment period, issue ERC Banking Certificates in the quantities shown in the Summary section, above.

Chevron USA, ERC Project#: 920255

ARB's Comment:

Documentation does not indicate that the reductions are enforceable by PTO or ATC condition.

Response:

Confusion appears to be caused by preceding ATC's submitted by the applicant as support documents.

Statement of Facts:

- This project banked western and central stationary source pre-1988 reductions for providing 99% control of steam drive well casing gas which exceeded KCAPCD's Rule 411.1 93% control requirement at that time.
- ATC's and PTO's with binding conditions including 99% control efficiency were issued for these TEOR operations. However, the applicant provided ATC's for preceding modifications (eg. 4008302A instead of 4008302B, sample attached) authorizing vapor collection (not including incineration) at a lower control efficiency.
- The confusion appears to be caused by preceding ATC's submitted by the applicant as support documents. An example of a current PTO (S-1127-160-2, was AS400# 4008302B and list of all permits) is attached. This PTO was originally issued 6/3/82 (see attached AS400 record) with conditions requiring 99% control and incineration of well casing gas. I verified all permits using the AS400 system at the time the project was reviewed.
- If needed the correct ATC's and implemented PTO's can be retrieved from dead storage.

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Bakersfield, California 93302
Telephone (805) 861-3682



UD#: S-1127-160-1,

Application No.: 4008302A

Date: December 30, 1977

AUTHORITY TO CONSTRUCT

An AUTHORITY TO CONSTRUCT is granted as of February 28, 1978

TO:

Legal Owner
or Operator:

CHEVRON U.S.A.

FOR:

The equipment described below and as shown on the approved plans
and specifications and subject to the conditions listed.

Equipment
Description
and
Conditions:

One well head casing vapor recovery system #CC-2-9 serving the
following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115,
52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81, and 105.

SEE ATTACHED SHEET

Location:

Sec. 9, T29S, R28E

This AUTHORITY TO CONSTRUCT is NOT a PERMIT TO OPERATE.

Approval or denial of the application for permit to operate the above equipment will be
made after an inspection to determine if the equipment has been constructed in accordance
with the approved plans and specifications and if the equipment can be operated in com-
pliance with all Rules and Regulations of the Kern County Air Pollution Control District.

Please notify Mr. Thomas Paxson at (805) 861-3682 when construction of
equipment is completed.

It is the applicant's responsibility to comply with all laws, ordinances and regulations
of other governmental agencies which are applicable to the equipment to be constructed.
For example, prior clearance must be obtained from the State Department of Industrial
Safety concerning compliance with applicable regulations.

This AUTHORITY TO CONSTRUCT shall expire and the application shall be cancelled two years
from the date of issuance of the authority to construct unless it is renewed. (Rule 205)

Leon M Hebertson, M.D.,
Air Pollution Control Officer

By: 

For Period: 2-28-78 to 2-28-80

KERN COUNTY HEALTH DEPARTMENT
AIR POLLUTION CONTROL DISTRICT

LEON M. HEBERTSON, M.D.
Director of Public Health
Air Pollution Control Officer

1700 Flower Street
P. O. Box 997
Lakersfield, California 93302
Telephone (805) 861-2231



4008302A

EQUIPMENT DESCRIPTION: One well head casing vapor recovery system #CC-2-9 serving the following wells 110, 52B, 106, 51, 51A, 51B, 100, 51D, 118, 114, 115, 52, 62, 62C, 61, 101, 61A, 102, 71, 71A, 81A, 81B, 81D, 81 and 105, including the following equipment and design specifications:

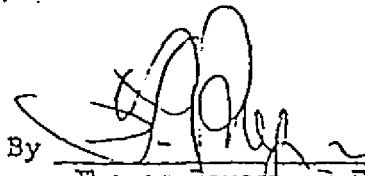
- a. Production well vent vapor collection piping network,
- b. One heat exchanger,
- c. One gas/liquid separator,
- d. One vapor condenser with mist eliminator,

CONDITIONS:

1. Nonmethane hydrocarbon collection efficiency shall be maintained at no less than 60%.

Nonmethane hydrocarbon collection efficiency shall be determined by KCAPCD approved and witnessed exhaust gas sampling no more than 30 days after startup of steam generator(s) associated with project.

3. Final vapor condenser shall utilize exhaust gas temperature indicator.
4. Mist eliminator shall be sized and positioned per manufacturer's recommendations.

By 
Thomas Faxon, P.E.
Air Sanitation Engineer III



San Joaquin Valley
Unified Air Pollution Control District

PERMIT TO OPERATE

PERMIT NO: S-1127-160-2 AS400# 4008302B

EXPIRATION DATE: 02/28/98

LEGAL OWNER OR OPERATOR: CHEVRON U.S.A., INC.
MAILING ADDRESS: P. O. BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL CENTRAL SOURCE, SECTION 09 TOWNSHIP 29S RANGE 28E

EQUIPMENT DESCRIPTION:

THERMAL ENHANCED OIL RECOVERY OPERATION WELL VENT VAPOR CONTROL SYSTEM CT-2-9

CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance.
2. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date.
3. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%.
4. All components of well vent vapor collection and control systems shall be maintained in good working condition.
5. Leaks shall be inspected and repaired, and records of such repairs shall be maintained as specified in Rule 4401.
6. The operation shall be equipped with 25 steam enhanced wells, 1 heat exchanger, 2 gas/liquid separators, 1 vapor compressor, and compressed vapor piping to authorized disposal/incineration devices.
7. There shall be no more than 3 leaks from the vapor collection and control system, including condensate handling, at any one time.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require a new permit. This permit shall be posted as prescribed in District Rule 2010.

DAVID L. CROW

Executive Director/APCO

Southern Regional Office *2700 M Street, Suite 275 *Bakersfield, California 93301 *(805) 861-3682* FAX (805) 861-2060
1994-8-19

III. LOCATION:

A. Locations in the Central Stationary Source are as follows:

<u>Permit#(s)</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
/4008302B /4008303B	S-0037-1	(4008302/501)	Sec. 09 T29S/R28E
4008329B 4008330B 4008331A	S-0064-1	(4008302/502)	Sec. 32 T28S/R28E
/4008305B /4008306B /4008308B /4008310B /4008311A 4008333A	S-0065-1	(4008302/503)	Sec. 03 T29S/R28E
/4008313B /4008315A /4008316B	S-0066-1	(4008302/504)	Sec. 5 T29S/R28E
/4008322B /4008323A	S-0067-1	(4008302/505)	Sec. 04 T29S/R28E
/4008325A /4008327A	S-0068-1	(4008302/506)	Sec. 31 T28S/R28E

B. Locations in the Western Stationary Source are as follows:

<u>Permit#</u>	<u>ERC UD#</u>	<u>ERC AS400#</u>	<u>Location</u>
4008317B	S-0038-1	(4008317/501)	Sec. 36 T29S/R21E
4008318A	S-0056-1	(4008317/502)	Sec. 16 T30S/R22E
4008319B	S-0057-1	(4008317/503)	Sec. 26 T32S/R23E
4008350A	S-0058-1	(4008317/504)	Sec. 31 T29S/R22E
4008343B	S-0059-1	(4008317/505)	Sec. 25 T32S/R23E
4008345A	S-0060-1	(4008317/506)	Sec. 26 T32S/R23E
4008346B	S-0061-1	(4008317/507)	Sec. 01 T11N/R24W
4008347B	S-0062-1	(4008317/508)	Sec. 02 T11N/R24W
4008349C	S-0063-1 S-0059-1	(4008317/509) (4008317/505)	Sec. 15 T31S/R22E

See phone conversation dated 9/1/93 with Kelly Skeels

* See Chevron letter dated June 28, 1993

Kern APCD

Enter and Maintain Status Sheets

4/27/93

97

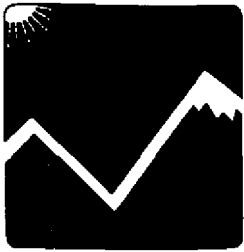
 A to C # 4 008 302 B Equip Code 90001 Location Qtr ___ Sec 09 T 29 S R 28 E
 Project # 790611 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNOR
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type CASING COLLECTION SYSTEM Rating 25 . 00
 Mnf Application Received Date 6 / 11 / 79
 Filing Fee Receipt Number 0000000 Amount 0 . 00 Date ___ / ___ / ___
 Mailing, Statement for Fees Due 1 / 04 / 93
 Fee Receipt Number 0019260 Amount 187 . 50 Date 3 / 08 / 93
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 19 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: * RENEWAL 5/7/82 (90 DAY EXTENSION GRANTED 02/20/ Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB

Kern APCD

Enter and Maintain Status Sheets

4/27/93

 A to C # 4 008 303 B Equip Code 70009 Location Qtr ___ Sec 09 T 29 S R 28 E
 Project # 800102 Processing Engr Supervising Engr
 Company Name CHEVRON U.S.A., INC. Western/Central C
 Contact Name MR. R. K. CONNOR
 Contact Title WESTERN REGION/DIVISION MGR. Phone 805-392-3300
 Equipment Type THERMALLY ENHANCED OIL RECOVERY Rating 51 . 00
 Mnf Application Received Date 1 / 02 / 80
 Filing Fee Receipt Number 0367258 Amount 0 . 00 Date 1 / 02 / 80
 Mailing, Statement for Fees Due 1 / 19 / 82
 Fee Receipt Number 0441387 Amount 0 . 00 Date 2 / 05 / 82
 A to C Issued, Denied, Cancelled or Expired (I/D/C/E) I Date 5 / 20 / 80
 Startup inspection inspector Date 2 / 17 / 82
 Initial Source Test Required (Y/N) ___ / ___ / ___
 Annual Source Test Required (Y/N) ___ / ___ / ___
 Source Test Inspector Date ___ / ___ / ___
 P/O Issued or Denied (I/D/C/T) I New/Purchased N From ___ 6 / 03 / 82
 P/O Sold/Offset for Project/Banked/Graveyarded _ Proj# 000000 ___ / ___ / ___
 Comments: Create Billing N
 CMD1=Fwd CMD2=Back CMD3=Prev CMD6=Update CMD7=End CMD9=Emisn CMD10=Prjct
 Current Program: AP107 Format Member: AP107FM Format: Screen3 Page 1
 03-38 SA MW KS IM II S1 KB



San Joaquin Valley Unified Air Pollution Control District

June 11, 1997

Mr. W.A. Brommelsiek
Manager, ESF&H
Chevron USA
P.O. Box 1392
Bakersfield, CA 93302

Re: VOC and Ethane Certificates from VOC Certificate

Dear Mr. Brommelsiek:

Enclosed please find Emission Reduction Credit (ERC) Certificates S-0622-1, S-0623-1, S-0625-1, S-0626-1, S-0627-1, and S-0628-1 (for VOC) and S-0622-6, S-0623-6, S-0625-6, S-0626-6, S-0627-6, and S-0628-6 (for ethane) from the segregation of ethane from the VOC portion of VOC certificates S-0038-1, S-0057-1, S-0060-1, S-0061-1, S-0062-1, and S-0063-1.

Thank you for returning ERC certificates S-0038-1, S-0057-1, S-0060-1, S-0061-1, S-0062-1, and S-0063-1 to the District. Should you have any questions, please telephone Ms. Melissa W. Adams of the Permit Services Section at (805) 862-5200.

Sincerely,

Seyed Sadredin
Director of Permit Services

SS:MWA/bja
Enclosure

c: Thomas E. Goff, Permit Services Manager

David L. Crow

Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • Fax (209) 233-2057

old project
920255
5-1128

Northern Region

4230 Kiernan Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • Fax (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • Fax (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301
(805) 862-5200 • Fax (805) 862-5201

NORTHERN REGION

CENTRAL REGION

ETHANE VOC SPLIT CHECK LIST

SOUTHERN REGION

PROJECT#: 970463 MODEM FILE NAME: CHE70463.FBC ✓

REQST. COMPL.

- ERC TRANSFER OF PREVIOUSLY BANKED CREDITS
- ERC PRELIMINARY PUBLIC NOTICE
- ERC FINAL PUBLIC NOTICE
- NSR/CEQA PRELIMINARY PUBLIC NOTICE
- NSR/CEQA FINAL PUBLIC NOTICE

ENCLOSED DOCUMENTS REQUIRE:

- Enter Correct Date, Print All Documents from Modemed File and Obtain Directors Signature
- Send **PRELIMINARY** Notice Letters to CARB, EPA and Applicant; Including the Following Attachments:
 - Application Evaluation
 - Other _____
- Send **PRELIMINARY** Public Notice for Publication to Bakersfield Californian
- Send Signed Copies of Final Notice Letters to Regional Office Attn:
- Director's Signature and District Seal Embossed on ERC Certificates
- Director's Signature on Cover Letter and Mail Cover Letter & ERC Certificates by Certified Mail to:
 - Applicant: Mr. W. A. Brommelsiek, Manager ESE&H, Chevron USA, P.O. Box 1392, Bakersfield, CA 93302
 - Applicant and Additional Addressees (see cover letters)
 - Other _____
- Send Copies of Signed and Seal Embossed ERC Certificates and Signed cover letter to Regional Office Attn: Melissa W. Adams
- Other Special Instructions (please specify)

Date Completed _____/By _____

Date Added to "Notice" Directory: June 9, 1997

Upon Completion FAX to Regional Office Attn: Melissa W. Adams



San Joaquin Valley Unified Air Pollution Control District

March 21, 1997

Mr. W. A. Brommelsiek
Manager of ESF&H
Chevron U.S.A.
P O Box 1392
Bakersfield, CA 93302

Re: ERC Ethane/Acetone Segregation from VOC Certificates

Dear Mr. Brommelsiek:

On May 16, 1996, the definition of volatile organic compound was amended to exclude acetone and ethane. Therefore, prior to use of previously banked VOC credits, the amount must be separated into the newly defined VOC's and the excluded acetone and ethane portions. Acetone and ethane may no longer be used to offset VOC emission increases.

The VOC fraction of the amounts banked in certificates S-0038-1, S-0057-1, S-0059-1, S-0060-1, S-0061-1, S-0062-1, S-0063-1 has been determined using Air Resources Board published VOC speciation profiles. Based on this review of ERC certificates S-0038-1, S-0057-1, S-0059-1, S-0060-1, S-0061-1, S-0062-1, S-0063-1, ethane constitutes 3.04% of the previously banked amount.

Prior to finalizing the segregation of exempt compounds, Chevron U.S.A., has 30 days to review and comment on the attached analysis documenting the amount of ethane and non-exempt VOC compounds.

At the end of the review and comment period, please return the original VOC certificate(s) to validate the new certificates.

David L. Crow

Executive Director/Air Pollution Control Officer

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721 • (209) 497-1000 • FAX (209) 233-2057

Northern Region

4230 Kierman Avenue, Suite 130 • Modesto, CA 95356
(209) 545-7000 • FAX (209) 545-8652

Central Region

1999 Tuolumne Street, Suite 200 • Fresno, CA 93721
(209) 497-1000 • FAX (209) 233-2057

Southern Region

2700 M Street, Suite 275 • Bakersfield, CA 93301-2370
(805) 862-5200 • FAX (805) 862-5201

Thank you for your cooperation in this matter. Should you have any questions, please telephone Ms.Melissa W. Adams of the Permit Services Section at (805) 862-5200.

Sincerely,
Seyed Sadredin
District Manager of Permit Services

A handwritten signature in cursive script, appearing to read "Thomas E. Goff for".

Thomas E. Goff, P.E.
Permit Services Manager - Southern Region

mwa
enclosures

ERC ETHANE/ACETONE SEGREGATION REVIEW

Facility Name: Chevron USA
Mailing Address: P.O. Box 1392
 Bakersfield, Ca 93302

Contact Name: Martin Lundy
Telephone: (805) 633-4458

Engineer: Melissa W. Adams
Date: 03/19/97

Lead Engineer: Allan Phillips *AP SUPR AQE*
Date: 3-20-97

Project #: 970463

ERC #'s:	Ethane <u>New ERC</u> S-622-6 S-623-6 S-625-6 S-626-6 S-627-6 S-628-6	VOC <u>New ERC</u> S-622-1 S-623-1 S-625-1 S-626-1 S-627-1 S-628-1	Split from <u>Old ERC</u> S-38-1 S-57-1 S-60-1 S-61-1 S-62-1 S-63-1
-----------------	--	---	--

I. PROPOSAL:

Pursuant to the May 16, 1996 revision to Rule 1020, section 3.53, the definition of a Volatile Organic Compound (VOC) has been changed to exempt ethane and acetone from the definition. Consequently, VOC ERC certificates must be split into an ethane certificate, an acetone certificate and a new VOC certificate in order to be used consistently with Rule 2201, Section 4.2.5.3 which prohibits the use of exempt compounds as offsets for VOCs.

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0038-1	18178	18380	18582	18582
Certificate	S-0057-1	29958	30290	30623	30623
Certificate	S-0060-1	310	314	317	317
Certificate	S-0061-1	8940	9039	9138	9138
Certificate	S-0062-1	3310	3347	3384	3384
Certificate	S-0063-1	18763	18972	19181	19181

The above certificates have been adjusted using data from the original application and VOC species profiles¹ as follows (the profile shows no acetone; therefore, only ethane was split out):

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0038-1	18178	18380	18582	18582
Ethane Certificate	S-0622-6	553	559	565	565
VOC Certificate	S-0622-1	17625	17821	18017	18017
Certificate	S-0057-1	29958	30290	30623	30623
Ethane Certificate	S-0623-6	911	921	931	931
VOC Certificate	S-0623-1	29047	29369	29692	29692
Certificate	S-0060-1	310	314	317	317
Ethane Certificate	S-0625-6	9	10	10	10
VOC Certificate	S-0625-1	301	304	307	307
Certificate	S-0061-1	8940	9039	9138	9138
Ethane Certificate	S-0626-6	272	275	278	278
VOC Certificate	S-0626-1	8668	8764	8860	8860
Certificate	S-0062-1	3310	3347	3384	3384
Ethane Certificate	S-0627-6	101	102	103	103
VOC Certificate	S-0627-1	3209	3245	3281	3281
Certificate	S-0063-1	18763	18972	19181	19181
Ethane Certificate	S-0628-6	570	577	583	583
VOC Certificate	S-0628-1	18193	18395	18598	18598

II. APPLICABLE RULES:

Rule 1020: Definitions (Amended 11/13/96)

Rule 2201: New and Modified Stationary Source Review Rule (6/15/95)

Rule 2301: Emission Reduction Credit Banking Rule (Amended 12/17/92)

III. PROJECT LOCATION:

¹ EPA. January 1990. *Air Emission Species Manual*. Vol. 1; Volatile Organic Compound Species Profiles. Second Ed. EPA-450/2-90-001a. Research Triangle Park, North Carolina.

III. PROJECT LOCATION:

Location where offsets were generated:

Section 36, Township 29S, Range 21E
 Section 26, Township 32S, Range 23E
 Sections 1 & 2, Township 11N, Range 24W
 Section 15, Township 31S, Range 22E
 S-1128, Heavy Oil Western
 Steam drive well casing collection systems installed prior to April 25, 1983.

IV. Engineering Review:

The ERC's were originally issued for steam drive well casing collection systems installed prior to April 25, 1983(ERC project 920255). The segregation of ethane from the original VOC certificates was based on VOC species profiles. See Appendix A for copy of applicable VOC speciation profiles. Based on this data and calculations, the new certificates for VOCs and the certificates for ethane will be issued as calculated below.

V. CALCULATION of EMISSIONS:

Assumptions:

Using profile code: 532
 wt. fraction Ethane = 0.0190
 wt. fraction Methane = 0.3750
 Total of all species (0-1) = 1.0000

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0038-1	18178	18380	18582	18582
Certificate	S-0057-1	29958	30290	30623	30623
Certificate	S-0060-1	310	314	317	317
Certificate	S-0061-1	8940	9039	9138	9138
Certificate	S-0062-1	3310	3347	3384	3384
Certificate	S-0063-1	18763	18972	19181	19181

Example for ERC S-0037-1:

Ethane 1st Qtr Credits = (18178 lbs original ERC certificate for 1st Qtr)x(0.0190 wt fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=553 lb/1st Qtr.
ethane credits

Ethane 2nd Qtr Credits = (18380 lbs original ERC certificate for 2nd Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=559 lb/2nd Qtr.
ethane credits

Ethane 3rd Qtr Credits = (18582 lbs original ERC certificate for 3rd Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=565 lb/3rd Qtr.
ethane credits

Ethane 4th Qtr Credits = (18582 lbs original ERC certificate for 4th Qtr)x(0.0190 wt. fraction ethane)/[(1.0000 Total of all species)-(0.3750 wt. fraction methane)]=565 lb/4th Qtr. ethane credits

New 1st Qtr VOC Credits = (18178 lb/1st Qtr Existing VOC credits) - (553 lb/1st Qtr. ethane Credits) = 17625 lb/1st Qtr. VOC credits

New 2nd Qtr VOC Credits = (18380 lb/2nd Qtr Existing VOC credits) - (559 lb/2nd Qtr ethane Credits) = 17821 lb/2nd Qtr. VOC credits

New 3rd Qtr VOC Credits = (18582 lb/3rd Qtr. Existing VOC credits) - (565 lb/3rd Qtr ethane Credits) = 18017 lb/3rd Qtr. VOC credits

New 4th Qtr VOC Credits = (18582 lb/4th Qtr. Existing VOC credits) - (565 lb/4th Qtr ethane Credits) = 18017 lb/4th Qtr. VOC credits

VI. SUMMARY:

Rule 1020 - Definitions

Pursuant to the May 16, 1996 revision to the rule, ethane is no longer considered to be a VOC per Section 3.53. The purpose of this analysis is to separate the current certificate into an ethane ERC certificate and a new VOC certificate to be consistent with the definition of VOC in this Rule.

Rule 2301 - Emission Reduction Credit (ERC) Banking

The ERC's associated with certificates S-0038-1, S-0057-1, S-0060-1, S-0061-1, S-0062-1, and S-0063-1, were established pursuant to the District's Banking Rule 2301. They have satisfied the public noticing requirements of New Source Review (NSR), and are currently included in the District's Banking Register. This project is administrative, since all noticing requirements were previously satisfied upon initial issuance; therefore, public noticing, pursuant to Rule 2301, is not required for this project. Pursuant to District policy, the current holder of the ERC will be allowed 30 days for comments.

The emission credits associated with certificates S-0038-1, S-0057-1, S-0060-1, S-0061-1, S-0062-1, and S-0063-1, will be administratively transferred to certificates S-0622-1, 6; S-0623-1, 6; S-0625-1, 6; S-0626-1, 6; S-0627-1, 6; and S-0628-1, 6 in accordance with the requirements of Rule 2201, Section 4.2.5.3, Rule 2301, Section 7.0 and pursuant to District policy NSR/ERC 29. Upon cancellation of the original ERC documents, ERC certificate #'s S-0622-1, 6; S-0623-1, 6; S-0625-1, 6; S-0626-1, 6; S-0627-1, 6; and S-0628-1, 6 will be issued to Chevron USA.

IX. RECOMMENDATION:

Cancel ERC certificates S-0038-1, S-0057-1, S-0060-1, S-0061-1, S-0062-1, and S-0063-1 and issue ERC certificates S-0622-1, 6; S-0623-1, 6; S-0625-1, 6; S-0626-1, 6; S-0627-1, 6; and S-0628-1, 6 to Chevron USA, Heavy Oil Western Stationary Source, S-1128, in the following quarterly amounts:

	ERC Document	1st Qtr (lb-VOC)	2nd Qtr (lb-VOC)	3rd Qtr (lb-VOC)	4th Qtr (lb-VOC)
Certificate	S-0038-1	18178	18380	18582	18582
Ethane Certificate	S-0622-6	553	559	565	565
VOC Certificate	S-0622-1	17625	17821	18017	18017
Certificate	S-0057-1	29958	30290	30623	30623
Ethane Certificate	S-0623-6	911	921	931	931
VOC Certificate	S-0623-1	29047	29369	29692	29692
Certificate	S-0060-1	310	314	317	317
Ethane Certificate	S-0625-6	9	10	10	10
VOC Certificate	S-0625-1	301	304	307	307
Certificate	S-0061-1	8940	9039	9138	9138
Ethane Certificate	S-0626-6	272	275	278	278
VOC Certificate	S-0626-1	8668	8764	8860	8860
Certificate	S-0062-1	3310	3347	3384	3384
Ethane Certificate	S-0627-6	101	102	103	103
VOC Certificate	S-0627-1	3209	3245	3281	3281
Certificate	S-0063-1	18763	18972	19181	19181
Ethane Certificate	S-0628-6	570	577	583	583
VOC Certificate	S-0628-1	18193	18395	18598	18598

X. BILLING INFORMATION:

This banking action is an administrative change necessitated by the change to Rule 1020, therefore, no application filing fee will be required. This banking action does not require public noticing pursuant to Rule 2301; therefore, there are no fees associated with this project.

Appendix A

TABLE II
VOC SPECIES PROFILE

531 OIL & GAS EXTRACTION - COMPRESSOR SEALS

PROFILE NUMBER	SPECIES	WEIGHT FRACTION
531	BENZENE	.0070
	ETHANE	.0080
	ISOBUTANE	.0280
	ISOMERS OF HEPTANE	.0150
	ISOMERS OF HEXANE	.0150
	ISOMERS OF OCTANE	.0010
	ISOMERS OF PENTANE	.0330
	METHANE	.7300
	N-BUTANE	.0610
	N-HEPTANE	.0060
	N-HEXANE	.0140
	N-PENTANE	.0300
	PROPANE	.0480
	TOLUENE	.0040
*TOTAL 531		1.0000

532 OIL & GAS EXTRACTION - WELL HEADS & CELLARS/OIL&WATER SEPARATOR

PROFILE NUMBER	SPECIES	WEIGHT FRACTION
532	BENZENE	.0160
	ETHANE	.0190 ←
	ISOBUTANE	.0640
	ISOMERS OF HEPTANE	.0340
	ISOMERS OF HEXANE	.0350
	ISOMERS OF OCTANE	.0030
	ISOMERS OF PENTANE	.0770
	METHANE	.3750 ←
	N-BUTANE	.1420
	N-HEPTANE	.0140
	N-HEXANE	.0320
	N-PENTANE	.0690
	PROPANE	.1100
	TOLUENE	.0100
*TOTAL 532		1.0000

YELLOW

NEW ERC FILE REQUEST FORM

Processor Initials: PLY Today's Date: 4/12/96

Company Name: CHEVRON USA

Project #: 920253 Original Project #: 920253

ERC Number(s): S-38-1

Original Facility Number: S-1128 Year ERC Issued: 94

Description: ERC FOR PRE 1983 WELL CASING COLLECTION SYSTEM

Location: HOW S T R

ADD TO INVENTORY
POCKET FOLDER

PLY