

GW - 19

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**

---

1995-1981

## OIL CONSERVATION DIVISION

October 17, 1995

**CERTIFIED MAIL****RETURN RECEIPT NO. Z-765-963-078**

Mr. Ken Stinson  
 Warren Petroleum Company  
 P.O. Box 1589  
 Tulsa, Ok 74102

**RE: Discharge Plan GW-005 Renewal  
 Eunice Gas Processing Plant  
 Lea County, New Mexico**

Dear Mr. Stinson:

On May 9, 1991, the groundwater discharge plan, GW-005, for the Warren Petroleum Gas Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, **will expire on May 16, 1996.** The plan was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. **If Warren Petroleum Company submits an application for renewal at least 120 days before the discharge plan expires (on or before January 16, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether you have made, or intend to make, any changes in your system, and if so, please include these modifications in your application for renewal.

The discharge plan renewal application for the Bloomfield Refinery is subject to the WQCC Regulations 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus a flat fee of \$1,667.50 for Natural Gas Plants.

The (50) dollar filing fee is to be submitted with the discharge plan renewal application and is nonrefundable. The flat fee for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan - with the first payment due at the time of approval. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

OFFICE OF THE SECRETARY - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5950  
 ADMINISTRATIVE SERVICES DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5925  
 ENERGY CONSERVATION AND MANAGEMENT DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5900  
 FORESTRY AND RESOURCES CONSERVATION DIVISION - P. O. BOX 1948 - SANTA FE, NM 87504-1948 - (505) 827-5830  
 MINING AND MINERALS DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5970  
 OIL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-7131  
 PARK AND RECREATION DIVISION - P. O. BOX 1147 - SANTA FE, NM 87504-1147 - (505) 827-7465

Mr. Ken Stinson  
October 17, 1995  
Page 2

Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. Note that the completed and signed application form must be submitted with your discharge plan renewal request. The following information is included: Application form, Guidelines, and WQCC regulations.

If you no longer have any actual or potential discharges a discharge plan is not need, please notify this office. If you have any questions regarding this matter, please do not hesitate to contact Patricio W. Sanchez at (505) 827-7156.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

RCA/pws

xc: Mr. Wayne Price and Mr. Jerry Sexton

Z 765 963 078



Receipt for  
Certified Mail  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PS Form 3800, March 1993

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

**NOTICE OF PUBLICATION**  
**STATE OF NEW MEXICO**  
**ENERGY, MINERALS & NATURAL**  
**RESOURCES DEPARTMENT**  
**OIL CONSERVATION DIVISION**  
 Notice is hereby given that pursuant

**STATE OF NEW MEXICO**

County of Bernalillo

SS

Bill Tafoya being duly sworn declares and says that he is Classified Advertising manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 times, the first publication being of the 9th day of June, 1995, and the subsequent consecutive publications on \_\_\_\_\_, 1995

*Bill Tafoya*

Sworn and subscribed to before me, a notary Public in and for the County of Bernalillo and State of New Mexico, this 9th day of June 1995

PRICE

\$ 47.23

Statement to come at end of month.



*Megan Garcia*

CLA-22-A (R-1/93) ACCOUNT NUMBER C80932

to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-18) - National Propane Corporation, Robert W. Barry, P.O. Box 2337, Cedar Rapids, Iowa 52403-2007 has submitted an application for renewal of its previously approved discharge plan for its Leas Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. National Propane proposes construction of brine discharge to an existing 2.04 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine is reinjected to the salt domes when propane extraction is effected. Ground water most likely to be affected in the event of accidental discharge is at a depth of approximately 10,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-169) - Champion Technology, Inc., Joe Schornick, P.O. Box 460498, Houston, Texas 77245-0498, has submitted a discharge plan application for its Midco offsite chemical distribution site located in the NE/4 SE/4, Section 15, Township 19 South, Range 28 East, NMPM, Lea County, New Mexico. All waste generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 44 feet with a total dissolved solids concentration of approximately 1,038 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-193-1) - Champion Technology, Inc., Joe Schornick, P.O. Box 460498, Houston, Texas 77245-0498, has submitted a discharge plan application for its Farmington offsite chemical distribution site located in Section 12, Township 23 North, Range 13 West, NMPM, San Juan County, New Mexico. All waste generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at depth of approximately 50 feet with a total dissolved solids concentration of approximately 750 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 9:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information



# Affidavit of Publication

No. 15137

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

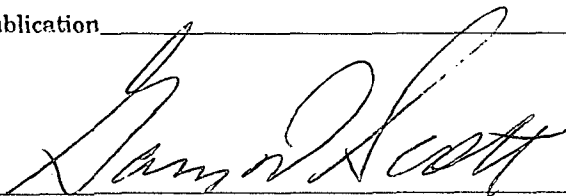
was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks on the same day as follows:

First Publication June 9, 1995

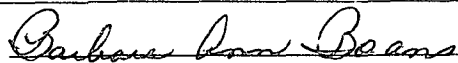
Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_



Subscribed and sworn to before me this 21st day of June 19 95



Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1996

Copy of

## LEGAL NOTICE

### NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-19) - National Propane Corporation, Robert W. Berry, P.O. Box 2067, Cedar Rapids, Iowa 52406-2067, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. National Propane proposes continuation of brine discharges to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the salt domes when propane extraction is desired. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 75 feet with a total dissolved solids concentration of approximately 10,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GGW-199) Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Hobbs oil field chemical distribution site located in the NE/4 SE/4, Section 15, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes generated will be stored in closed

top above ground storage tanks prior to offsite disposal at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 59 feet with a total dissolved solids concentration of approximately 750 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-199-1) - (nologies, Inc., P.O. Box 457, Texas 77245-0457, has submitted a discharge plan application for its Farmington oilfield chemical distribution site located in Section 12, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 59 feet with a total dissolved solids concentration of approximately 750 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the

GED TESTS  
tion Developer  
Wednesday, Jun  
school annex, 12  
Registration is at  
8:30. Test recipie  
2007 before Jun  
ments, must be at  
rent N.M. driver's  
vehicle ID cards  
rolled in regular h  
Fees are \$20 for a  
for each test.

Lot

# Affidavit of Publication

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF LEA )

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

## Notice Of Publication

XXXXXXXXXX and numbered XXXXX in the

XXXXXXXXXX County of Lea

XXXXXX was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, XXXXXXXX

XXXXXXXXXXXXXXXXXXXX one (1) day same day of the week, for

XXXXXXXXXXXX consecutive weeks, beginning with the issue of

June 6, 19 95

and ending with the issue of

June 6, 19 95

And that the cost of publishing said notice is the sum of \$ 61.20

which sum has been (Paid) (XXXXXX) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 16th

day of June, 19 95

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 98

## LEGAL NOTICE NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505)827-7131:

(GW-19)-National Propane Corporation, Robert W. Berry, P.O. Box 2067, Cedar Rapids, Iowa 52406-2067, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. National Propane proposes continuation of brine discharges to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the salt domes when propane extraction is desired. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 75 feet with a total dissolved solids concentration of approximately 10,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-199)-Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Hobbs oilfield chemical distribution site located in the NE/4 SE/4, Section 15, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 44 feet with a total dissolved solids concentration of approximately 1,036 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-199-1) - Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Farmington oilfield chemical distribution site located in Section 12, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 59 feet with a total dissolved solids concentration of approximately 750 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 31th day of May, 1995.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
WILLIAM J. LEMAY, Director

SEAL

Published in the Lovington Daily Lea for June 6, 1995.

## **NOTICE OF PUBLICATION**

### **STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

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**(GW-199-1) - Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Farmington oilfield chemical distribution site located in Section 12, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 59 feet with a total dissolved solids concentration of**

State of New Mexico  
**ENERGY MINERALS and NATURAL RESOURCES DEPARTMENT**  
Santa Fe, New Mexico 87505



June 2, 1995

**ARTESIA DAILY PRESS**  
**P. O. Box 179**  
**Artesia, New Mexico 88210**

**RE: NOTICE OF PUBLICATION**

**ATTN: ADVERTISING MANAGER**

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. Publisher's affidavit in duplicate.
2. Statement of cost (also in duplicate.)
2. CERTIFIED invoices for prompt payment.

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than June 9, 1995.

Sincerely,

*Sally Martinez*  
Sally E. Martinez  
Administrative Secretary

Attachment

Z 765 963 389



Receipt for  
Certified Mail  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to	
Artesia Daily Press	
Street and No.	
P.O. Drawer 179	
P.O., State and Zip	
Artesia NM 88210	
Postage	\$

**VILLAGRA BUILDING - 408 Galisteo**  
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7465

**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-7131

State of New Mexico  
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT  
Santa Fe, New Mexico 87505



June 2, 1995

**LOVINGTON DAILY LEADER**  
**P. O. Box 1717**  
**Lovington, New Mexico 88260**

**RE: NOTICE OF PUBLICATION**

**ATTN: ADVERTISING MANAGER**

*Dear Sir/Madam:*

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*Please publish the notice no later than June 9, 1995.*

*Sincerely,*

**Sally E. Martinez**  
**Administrative Secretary**

**Attachment**

Z 765 963 388

 **Receipt for  
Certified Mail**  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to	
Lovington Daily Leader	
P.O. Box 1717	
P.O., State and ZIP Code	
Lovington, NM 88260	
Postage	\$
Certified Fee	

**VILLAGRA BUILDING - 408 Galisteo**  
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7465

**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-7131

State of New Mexico  
**ENERGY MINERALS and NATURAL RESOURCES DEPARTMENT**  
Santa Fe, New Mexico 87505



June 2, 1995

**ALBUQUERQUE JOURNAL**  
**P. O. Drawer J-T**  
**Albuquerque, New Mexico 87103**

**RE: NOTICE OF PUBLICATION**

**ATTN: ADVERTISING MANAGER**

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

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1. Publisher's affidavit in duplicate.
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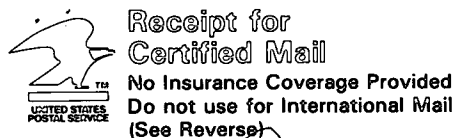
Please publish the notice no later than June 9, 1995.

Sincerely,

*Sally E. Martinez*  
Sally E. Martinez  
Administrative Secretary

Attachment

Z 765 962 360



Sent to <i>Alb. Journal</i>	
Street and No.	
P.O., State and ZIP Code	
Postage	\$

**VILLAGRA BUILDING - 408 Galisteo**  
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7465

**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-7131



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

February 28, 1994

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-111-334-085**

Mr. Robert L. Guest  
Arrow Gas Company  
P. O. Box 1777  
Roswell, New Mexico 88201

**RE: Discharge Plan GW-19  
Loco Hills Storage Facility  
Eddy County, New Mexico**

Dear Mr. Guest:

On January 3, 1990, the groundwater discharge plan renewal, GW-19 for the Loco Hills Storage Facility located in the NW/4 SW/4 of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on February 27, 1995.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operations, you must renew your discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several months. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, please include these modifications in your application for renewal.

Current WQCC Regulations do not allow for an expired discharge plan to receive an extension. Therefore you should submit the renewal application in ample time before the expiration date to allow the review process to be complete prior to expiration to avoid operating out of compliance (without an approved discharge plan).

Mr. Robert L. Guest  
February 28, 1994  
Page 2

Note that the completed and signed application form must be submitted with your discharge plan renewal request.

If you no longer have any actual or potential discharges please notify this office. If you have any questions, please do not hesitate to contact Chris Eustice (505) 827-5824.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roger C. Anderson".

Roger C. Anderson  
Environmental Bureau Chief

RCA/cee

xc: OCD Artesia Office





111 N. Atkinson

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

505 622-8031

July 17, 1991

Mr. Pleas Glenn  
Assistant Commissioner  
New Mexico State Land Office  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

Re: State Business Lease No. BL-635  
Loco Hills Storage Facility  
Eddy County, New Mexico

Dear Mr. Pleas:

As you will probably recall, Arrow Gas Company has been involved over the past few weeks in a lined-pond maintenance activity at our Loco Hills underground storage facility covered by the subject lease. As of July 12, 1991 this activity was approximately one-third complete.

I am certain you are also aware that commencing on July 12 southeastern New Mexico received torrential rains for several days which resulted in adding several thousand gallons of water to the brine pond which previously was essentially dry.

Because of the large amount of water now impounded in the brine pond, it will take several weeks to complete the balance of the material removal, assuming no additional rains of significance would fall in that period.

In order for us to utilize the remaining time we have this summer for the required propane storage activities to meet winter time demands it will be necessary, I believe, for us to suspend the remainder of the maintenance activities at this time. Accordingly, we are requesting approval to suspend this activity at this time with the additional request that we be permitted to again pursue the balance of this work in the spring of 1992 subject to water level conditions in the pond permitting us to resume the maintenance activity at that time. This will allow us to start normal storage activities at this facility and, of course, store brine water in the pond throughout the fall and winter months.

We have been in contact with Mr. Jim Carr of your office who is familiar with the facility and the maintenance program. Likewise we have contacted Mr. John Robinson, Field Representative for the Oil Conservation Division also familiar with this activity. Both gentlemen indicated to us they have no problems with this change, and that they would support us in this request.

Page 2  
Mr. Pleas Glenn  
July 17, 1991

OIL CONSERVATION DIVISION  
RECEIVED

'91 JUL 18 AM 8 45

We would appreciate an early approval of this change and request so that we be allowed to commence normal storage activities at the earliest date possible.

Yours very truly,

Robert L. Guest  
Vice President and General Manager

RLG:ks

cc: Don Blackard  
Jim Carr  
John Robinson  
Roger C. Anderson



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

April 24, 1990

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

CERTIFIED MAIL  
RETURN RECEIPT NO. P-918-408-139

Mr. R. L. Guest  
ARROW GAS COMPANY  
P. O. Box 1777  
Roswell, New Mexico 88201

RE: Discharge Plan GW-19  
Loco Hills Storage Facility  
Eddy County, New Mexico

Dear Mr. Guest

The Oil Conservation Division (OCD) has received your request, dated April 6, 1990, to remove 3500 to 4000 cubic yards of silt material from the bottom of the lined pond and store the silt material at a location within the facility boundaries. The silt material consists of sand, dust and precipitated salts.

Based on the information you have provided and a review of materials contained in your discharge plan, your proposal will not have an adverse effect on ground water and is approved with the following conditions:

1. The storage facility and proposed disposal location is on State of New Mexico property and is leased from the State of New Mexico. Written permission from the State Land Office (SLO) must be obtained prior to removal and storage of the silt material.
2. The silt material will not be placed in a drainage area to prevent rainwater runoff from carrying any of the material off your lease boundaries.
3. The leak detection sump will be emptied of all fluids prior to returning the pond to service.
4. A plat plan showing the exact disposal location of the silt material will be supplied to the OCD and the SLO.

If you have any questions, please contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson  
Environmental Engineer

RCA/sl

cc: OCD Artesia Office



OIL CONSERVATION DIVISION  
RECEIVED  
'90 APR 9 AM 8 58

111 N. Atkinson

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

505 622-8031

April 6, 1990

Mr. David G. Boyer  
Energy, Mineral and Natural Resources Department  
Oil Conservation Division  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Re: Arrow Gas Company Loco Hills Facility  
Eddy County, New Mexico

Dear Mr. Boyer:

As a follow-up to my telephone conversation this date with Mr. Roger Anderson, Arrow Gas Company formally requests permission and approval to perform the following described maintenance activity involving the brine holding pond at this location, and covered by a discharge plan regulated and approved by your department.

Due to blowing sand and dust over a period of several years, a silt build-up has occurred in the bottom of our holding pond which has materially reduced the volume of the holding capacity of the lined holding pond. Included in the silt is a mixture of salts which have resulted from evaporation and settling. We propose to remove 3,500 to 4,000 cubic yards of this silt material from the bottom of the pond, either with our own employees or by a contractor, and place the material on sites deemed satisfactory at the lease location. In order to avoid contact with the pond lining we plan to leave about six inches of material on the bottom, removing approximately one to one-half feet of silt material.

We are separately requesting approval also from the State Land Office regarding the proposed placement and storage of the silt material on the lease property. Initial conversations with field representatives of the State Land Office indicate they will have no problem with this request.

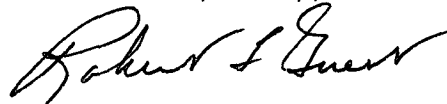
This project will also assist in the effort to locate and repair an apparent leak in the pond lining which is believed to be near the current

Page 2  
David G. Boyer  
April 6, 1990

pond level which now has very little water. All of this work needs to be completed within the next 30 days, if possible, for several reasons. Therefore, we would appreciate an early review and approval.

Please contact me should you require any additional information or data.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Robert L. Guest".

Robert L. Guest  
Vice President and General Manager

RLG:ks

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

January 3, 1990

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-918-408-162**

Mr. R. L. Guest  
ARROW GAS COMPANY  
P. O. Box 1777  
Roswell, New Mexico 88201

***RE: Discharge Plan GW-19  
Loco Hills Facility  
Eddy County, New Mexico***

Dear Mr. Guest

The ground water discharge plan renewal (GW-19) for the Arrow Gas Company Loco Hills Underground Propane Storage Facility located in the NW/4, SW/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, is hereby approved. The original discharge plan was approved on February 27, 1985 and will expire on February 27, 1990. The renewal application consists of the original discharge plan as approved February 27, 1985 and the application dated October 26, 1989.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations. It is renewed pursuant to Section 3-109.F., which provides for possible future amendments of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

There will be no routine monitoring or reporting requirements other than those outlined in the plan.

Please be advised that all exposed pits, including lined pits and open top tanks, shall be screened, netted, or otherwise rendered nonhazardous to wildlife to include migratory birds.

Please note that Section 3-104 of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C., you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

State of New Mexico  
**ENERGY MINERALS and NATURAL RESOURCES DEPARTMENT**  
Santa Fe, New Mexico 87505



June 2, 1995

**FARMINGTON DAILY TIMES**  
**P. O. Box 450**  
**Farmington, New Mexico 87401**

**RE: NOTICE OF PUBLICATION**

**ATTN: ADVERTISING MANAGER**

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. Publisher's affidavit in duplicate.
2. Statement of cost (also in duplicate.)
2. CERTIFIED invoices for prompt payment.

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.


Please publish the notice no later than June 9, 1995.

Sincerely,

*Sally E. Martinez*  
Sally E. Martinez  
Administrative Secretary

Attachment

Z 765 963 387

 **Receipt for  
Certified Mail**  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to
Street and No.
P.O. State and ZIP Code <b>Daily Times</b>
Postage <b>Box 450</b>
<b>Farmington, NM 87401</b>

Certified Mail

**VILLAGRA BUILDING - 408 Galisteo**  
Forestry and Resources Conservation Division  
P.O. Box 1948 87504-1948  
827-5830  
Park and Recreation Division  
P.O. Box 1147 87504-1147  
827-7465

**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-7131

## **NOTICE OF PUBLICATION**

### **STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

**(GW-19) - National Propane Corporation, Robert W. Berry, P.O. Box 2067, Cedar Rapids, Iowa 52406-2067, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. National Propane proposes continuation of brine discharges to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the salt domes when propane extraction is desired. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 75 feet with a total dissolved solids concentration of approximately 10,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

**(GW-199) - Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Hobbs oilfield chemical distribution site located in the NE/4 SE/4, Section 15, Township 19 South, Range 38 East, NMPM, Lea County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 44 feet with a total dissolved solids concentration of approximately 1,036 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

**(GW-199-1) - Champion Technologies, Inc., Joe Schornick, P.O. Box 450499, Houston, Texas 77245-0499, has submitted a discharge plan application for its Farmington oilfield chemical distribution site located in Section 12, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. All wastes generated will be stored in closed top above ground storage tanks prior to offsite disposal or recycling at an OCD approved site. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 59 feet with a total dissolved solids concentration of**



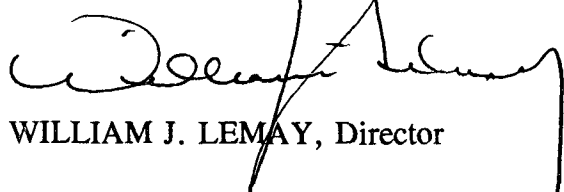
**approximately 750 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 31th day of May, 1995.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY, Director

SEAL



**THE REPRODUCTION OF  
THE  
FOLLOWING  
DOCUMENT ( S )  
CANNOT BE IMPROVED  
DUE TO  
THE CONDITION OF  
THE ORIGINAL**



DATE	PAGE NO.
6/2/23	1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
N. T. and P. Co.		51		4.11		1042.1.1		678962	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	08:00	27	27					Start of 1st day	
	08:00							West well	
	08:00							Start of 2nd day	
								Test run to 300 PSI	
								1st day of 1st well	
								1st day of 2nd well	
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**FIELD OFFICE**

PRINTED IN U.S.A. 85

TEXAS  
INSTRUMENT ENGINEERS

#2 National

METER NUMBER

TIME PUT ON

DATE PUT ON

5-9-85

TIME & DRIFT SIZE

TIME TAKEN OFF

12:15P

DATE TAKEN OFF

5/10/85

BR-4644

0-500-B

SIGNED

5-10-85

A.S.

DAY

NIGHT



PRINTED IN U.S.A.

**TEJAS**  
INSTRUMENT ENGINEERS

METER NUMBER

TIME PUT ON

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TUBE & ORIF. SIZE

TIME TAKEN OFF

DATE TAKEN OFF

MW-MP 2000

INCHES

5-10-95  
M.S.

11 A.M.

12 NOON

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12 NIGHT

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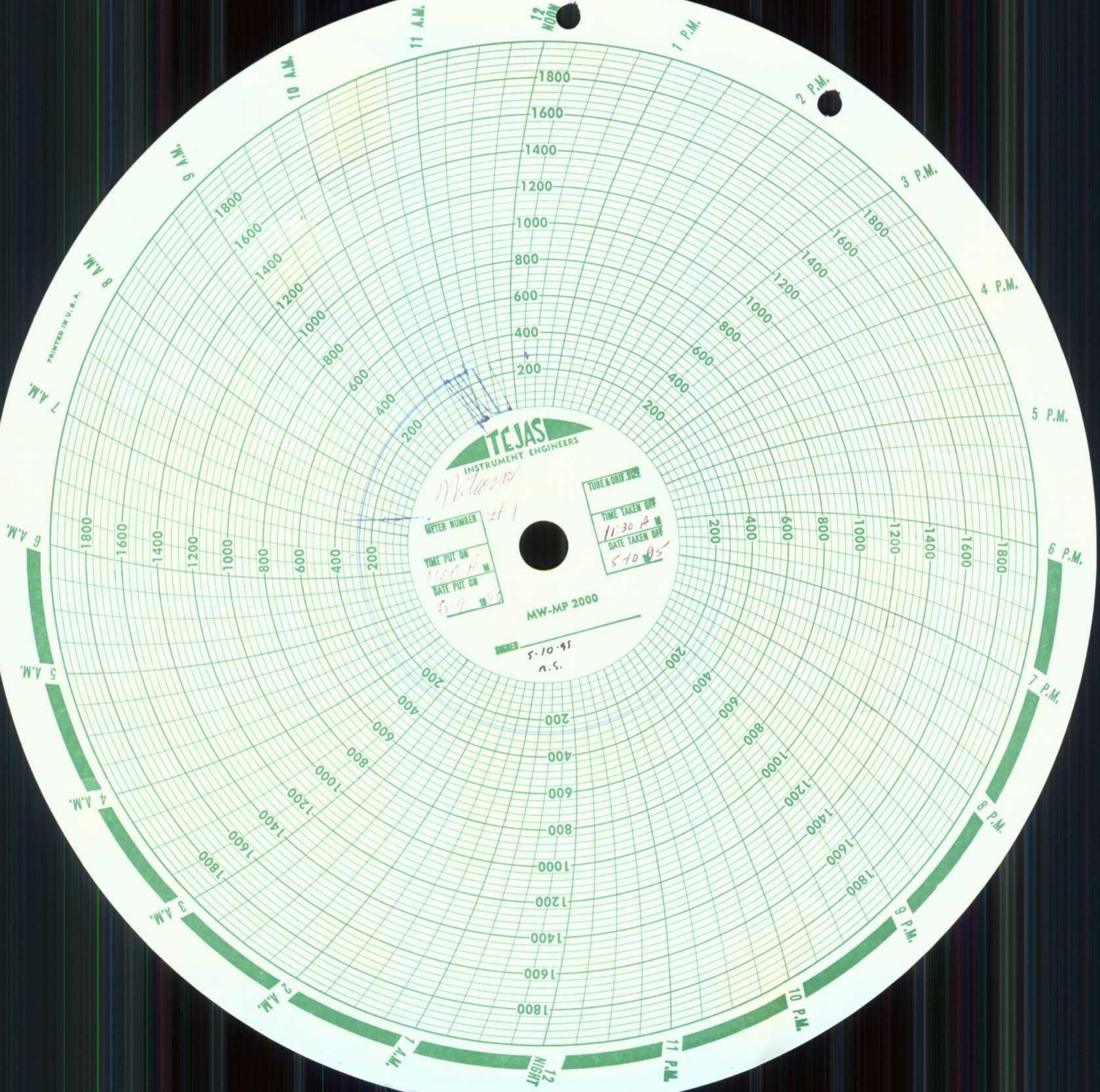
7 A.M.

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10 A.M.







OIL CONSERVATION DIVISION  
RECEIVED

'95 MAY 22 AM 8 52

**NATIONAL**  
The Nation's Propane Company.

National Propane Corporation  
1101 2nd Avenue SE  
PO Box 2067  
Cedar Rapids, IA 52406-2067  
Tel 319 365 1550  
FAX 319 365 0288

**Robert W. Berry**  
Vice President  
Supply and Distribution

May 18, 1995

State of New Mexico  
Energy, Minerals, and Natural Resources Department  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Attention: Mark Ashley

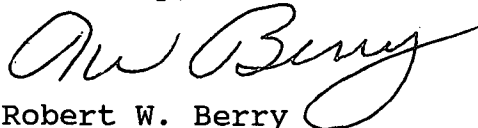
Re: Discharge Plan # GW19

Dear Mark:

There have been no changes from the last discharge plan approval.

Please use this letter as a request for discharge plan renewal at Loco Hills Underground Storage.

Sincerely,



Robert W. Berry  
Vice President - Supply & Distribution

cc: J. Smith



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102

Manufacturing Department

OIL CONSERVATION DIVISION  
RECEIVED  
'91 NOV 15 AM 9 05

November 8, 1991

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN RENEWAL

William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Roger C. Anderson  
Environmental Engineer

Dear Mr. Anderson:

This letter is to inform you that on November 1, 1991, we completed the piping test of our underground waste water system located at the subject facility.

A total of 13,208 feet of piping was tested. We replaced 312 feet of pipe. Replacement of pipe was chosen throughout the 312 feet. Therefore, no pipe was repaired.

With this correspondence, we have completed the eight items you requested we address during your February 6, 1991, site visit. If, however, you find that you have any questions, or need further information, now or in the future, please contact Linda Johnson, or me at (918) 560-4138.

Very truly yours,

L. T. Reed, Senior Engineer  
Environmental Affairs

*for*

LTR/LLJ:fy

xc: B. G. Schulz  
F. C. Noah - Eunice  
File:with Discharge Plan and VII.B.3.d.(A)

1639/LLJ/11081/L/DSCHRG RNWL







BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



June 26, 1992

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

The National Transportation Safety Board  
Pipeline Division  
490 L'Enfant Plaza East, S.W.  
Washington, D.C. 20594

Attn: George L. Mocharko, IIC

RE: Underground Storage Systems

Dear Mr. Mocharko:

Your letter to the New Mexico State Corporation Commission dated June 6, 1992 was finally forwarded to my desk on June 23, 1992. The New Mexico Oil Conservation Division is the States overseer of underground storage projects of natural gas and on a limited bases regulates the drilling, completing and operation of LPG Storage wells, the process of "washing out a cavity in a massive salt water section", and receives and collects from operators reports on an annual basis the injection/withdrawal of products from a project, including any capacity changes and pressures.

As requested I have included the following information:

- (a) a copy of Article 6: Underground Storage of Natural Gas, from Section 70 N.M.S.A. 1978;
- (b) New Mexico Oil Conservation Division General Rules 701 through 711 and Rule 1131; and,
- (c) information sheets on the six projects still in existence in New Mexico showing:
  - 1) project name
  - 2) operator
  - 3) type of facility
  - 4) location
  - 5) capacity

The National Transportation Safety Board

Page 2

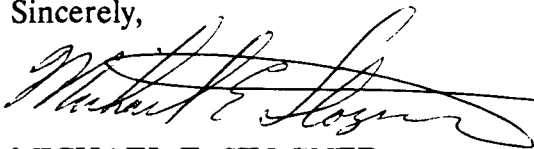
June 26, 1992

- 6) material stored (natural gas or LPG)
- 7) authorization data
- 8) other sources of information on file with the Oil Conservation Division.

We are unable to provide specific and detailed information on the type of highly volatile liquids (HVLs) in each of the six storage projects. I have however requested the operators provide with you this information.

I hope the enclosed material along with the subsequent input from the operators is sufficient. Should you require any additional data or have any questions concerning the enclosed material, please contact me at (505) 827-5811.

Sincerely,



MICHAEL E. STOGNER  
Chief Hearing Officer/Engineer

MES/jc

cc: Warren Petroleum Company - Monument, NM  
Llano Inc. - Hobbs, NM  
Gas Company of New Mexico - Albuquerque, NM  
Arrow Gas Company - Roswell, NM  
El Paso Natural Gas Company - El Paso, TX  
OCD - Hobbs  
Artesia  
Aztec

## UNDERGROUND STORAGE PROJECT INFORMATION SHEET

<b>Project:</b>	Washington Ranch Storage Project
<b>Operator Name:</b>	El Paso Natural Gas Company P.O. Box 1492 El Paso, TX 79978
<b>Type of Facility:</b>	A multi-well system comprising 26 wells utilizing a depleted gas reservoir of Pennsylvanian age (Washington Ranch-Morrow Gas Pool) found at a depth of approximately 6,500 to 7,000 feet.
<b>Location:</b>	<u>Eddy County, New Mexico</u> <u>Township 25 South, Range 24 East, NMPM</u> Section 21: S/2 Section 22: S/2 Section 23: SW/4 Section 26: W/2 and SE/4 Sections 27 and 28: All Section 29: E/2 Section 32: E/2 Sections 33 through 35: All Section 36: SW/4 <u>Township 26 South, Range 24 East, NMPM</u> Sections 1 through 4: All Section 5: NE/4 Section 9: N/2 and SE/4 Sections 10 through 12: All Section 13: N/2 Section 14: N/2 <u>Township 26 South, Range 25 East, NMPM</u> Section 6: SW/4 Section 7: W/2 Section 18: NW/4
<b>Capacity:</b>	67,253 MMCF
<b>Material Stored:</b>	Produced Natural Gas
<b>Authorization:</b>	Division Order No. R-6175 issued in Case No. 6703 and dated November 2, 1979; Division Order No. R-6175-A issued in Case No. 7088 and dated January 19, 1991; and Division Order No. R-6175-B issued in Case No. 8137 and dated April 20, 1984.
<b>Sources:</b>	Well Files: All files listed in the above-described area.  Case Files: 6703, 7088 and 8137.

UNDERGROUND STORAGE PROJECT INFORMATION SHEET	
Project Name:	Loco Hills
Operator Name:	Arrow Gas Company P.O. Box 1777 Roswell, NM 88201
Type of Facility:	A three well system interconnected by a cavity in the Cowden anhydrite (salt section) at a depth of approximately 500 to 600 feet.
Location:	NW/4 SW/4 (Unit L) of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
Capacity:	235,000 to 238,000 barrels.
Material Stored:	Liquified Petroleum Gas
Authorization:	Administrative Order No. LPG-5
Sources:	Well Files: Black 96 LPG Storage Well Nos. 1, 2 and 3 All in L-22-T17S-R29E  Administrative Order File: LPG-5

UNDERGROUND STORAGE PROJECT INFORMATION SHEET	
Project Name:	LPG Storage Well No. 1
Operator Name:	Warren Petroleum Company P.O. Box 67 Monument, New Mexico 88265
Type of Facility:	A one-well underground storage facility in the Salade (Salt Section) formation at a depth of 1892 feet washed out to create a cavern.
Location:	N/2 NW/4 NW/4 of Section 1, Township 20 South, Range 36 East, NMPM, Lea County, New Mexico.
Capacity:	168,000 barrels.
Material Stored:	Liquified Petroleum Gas (butane)
Authorization:	C-101 dated June 3, 1953
Sources:	Well File: LPG Storage Well No. 1 D-1-T20S-R36E

UNDERGROUND STORAGE PROJECT INFORMATION SHEET	
Project Name:	LPG Storage Well No. 2
Operator Name:	Warren Petroleum Company P.O. Box 67 Monument, New Mexico 88265
Type of Facility:	A one-well underground storage facility in the Salade (Salt Section) formation at a depth of 1469 feet washed out to create a cavern.
Location:	NE/4 SW/4 SW/4 of Section 36, Township 18 South, Range 36 East, NMPM, Lea County, New Mexico.
Capacity:	245,000 barrels.
Material Stored:	Liquified Petroleum Gas
Authorization:	Administrative Order LPG-2 dated June 1, 1953.
Sources:	Well File: LPG Storage Well No. 2 M-36-T19S-R36E Administrative Order File: LPG-2

**UNDERGROUND STORAGE PROJECT INFORMATION SHEET**

**Project Name:** Grama Ridge Morrow Unit

**Operator Name:** Llano, Inc.  
921 W. Sanger  
Hobbs, NM 88240-4917

**Type of Facility:** A four well gas storage project (two injectors, two withdrawal wells) in a portion of the Grama Ridge Morrow Gas Pool comprising 1287.16 acres at a depth of 12,700 feet to 13,200 feet.

**Location:** All of Section 34, Township 21 South, Range 34 East, NMPM, and all of Section 3, Township 22 South, Range 34 East, NMPM, all in Lea County.

**Capacity:** 13,000 MMCF

**Material Stored:** Produced Natural Gas

**Authorization:** Unitized area approved by Division Order No. R-4473 issued in Case No. 4895 and dated January 29, 1973. Injection project approved by Division Order No. R-4491 issued in Case No. 4896 dated March 16, 1973.

**Sources:** Well File: GRM Unit Well No. 1  
E-3-T22S-R34E

GRM Unit Well No. 2  
L-34-T21S-R34E

GRM Unit Well No. 3  
J-33-T21S-R34E

GRM Unit Well No. 4  
F-4-T22S-R34E

Case Files: 4895 and 4896

### UNDERGROUND STORAGE PROJECT INFORMATION SHEET

Project Name:	Las Milpas Gas Storage Project (San Ysidro)
Operator Name:	Gas Company of New Mexico P.O. Box 26400 Albuquerque, NM 87125
Type of Facility:	A multi-well (approximately 12 wells) system in a permeable sandstone structure in the Aqua Zarca formation which is overlain by an impermeable shale layer (Poleo formation). Average depth of injection is 2250 feet.
Location:	All of Sections 17 through 20; all of Sections 29 through 32, both of Township 15 North, Range 1 East, NMPM. All of Section 13; all of Sections 24 and 25; and all of Section 36 of Township 15 North, Range 1 West, NMPM, Sandoval County, New Mexico.
Capacity:	10,000 MMCF
Material Stored:	Natural Gas
Authorization:	Division Order No. R-5079 issued in Case No. 5502 and dated April 27, 1976.
Sources:	Well Files: Well files in the above-described area. Case File: 5502





STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

June 25, 1992

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

Arrow Gas Company  
P.O. Box 1777  
Roswell, New Mexico 88201

Re: Loco Hills Project Area  
Eddy County, New Mexico

Dear Sir or Madame,

This agency recently received from the Washington, D.C. Office of the National Transportation Safety Board's Pipeline Division a request (see copy attached) to provide information on Underground Storage Systems in New Mexico. At this time I am preparing a response with all the information requested; however, we seem to lack the specifics on the kinds of highly volatile liquids (HVLs) and gases stored in New Mexico's facilities that the National Transportation Safety Board seems to want.

I am therefore requesting your assistance in providing a detailed analysis of the product stored in your particular project. To accommodate the Safety Boards request in a timely manner, please submit your gas/liquids analysis directly to:

The National Transportation Safety Board  
Pipeline Division  
Attn: George L. Mocharko, IIC  
490 L'Enfant Plaza East, S.W.  
Washington, D.C. 20594

Please provide me a copy of your response so that I might have this information for future reference. Thank you for your cooperation in this matter.

Sincerely,

Michael E. Stogner  
Chief Hearing Officer/Engineer

cc: OCD - Artesia  
National Transportation Safety Board- Washington, D.C.  
Attn: George L. Mocharko, IIC



RECEIVED  
JUN 22 1992

**National Transportation Safety Board**

Washington, D.C. 20594

JUN 22 AM 8 38

6 JUN 1992

Mr. Rey S. Medina  
Director, Pipeline Division  
New Mexico State  
Corporation Commission  
P.O. Drawer 1269  
Santa Fe, New Mexico 87504

Dear Mr. Medina:



On April 7, 1992, an uncontrolled release of highly volatile liquids (HVLs) from a salt dome storage cavern near Brenham, Texas, formed a large, heavier-than-air gas cloud that exploded. The HVLs in the 2,700-foot-deep cavern consisted of ethane, propane, isobutane, n-butane, isopentane, n-pentane, and n-hexane. Three people were killed, 23 people were injured, and property damage exceeded \$5 million.

In conjunction with its investigation, the National Transportation Safety Board is developing information on underground storage systems. We ask that you or the appropriate agency in your State provide the following:

- o Information on State policies and programs on underground storage systems used in pipeline transportation to provide public safety.
- o Copies of regulations/standards/requirements.
- o Information on the kinds of HVLs and gases that are in underground storage systems used in pipeline transportation.
- o The names of the companies that use underground storage systems in transportation; the location, kind, and capacity of facilities; and the identity of material stored.

Please provide the information before June 22, 1992, to:

The National Transportation Safety Board  
Mr. George L. Mocharko, IIC  
490 L'Enfant Plaza East, S.W.  
Washington, D.C. 20594

2

If you prefer to fax your response, our fax number is (202) 382-6715. Thank you for your cooperation.

Sincerely,

*George L. Mocharko*  
George L. Mocharko  
Investigator-In-Charge  
Pipeline Division

Form C-131-8  
Adopted 7-1-81

NEW MEXICO OIL CONSERVATION DIVISION  
'92 JAN 10 AM 8 58 P. O. BOX 2088, SANTA FE, NEW MEXICO 87501

## ANNUAL LPG STORAGE REPORT

P.O. Box 1777, Roswell, New Mexico 88201  
(Address)

NAME OF STORAGE PROJECT: Loco Hills COUNTY: Eddy REPORT YEAR: 1991

CALCULATED RESERVOIR PRESSURE @ END OF YEAR 125 psi

TOTAL CAPACITY (BBLS) \_\_\_\_\_ BEGINNING STORAGE (BBLS) 33,021

NET CHANGE (BBLS) (27,090) ENDING STORAGE (BBLS) 5,931

I hereby certify that this report is true and complete to the best of my knowledge and belief

By *Patricia A. Albert* Title Assistant Secretary/Treasurer

Date January 7, 1992



GAS COMPANY

*M.S.*

Sunwest Bank  
Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

500 North Main  
505 622-8031

December 4, 1984

RECEIVED

DEC 7 1984

OIL CONSERVATION DIVISION

Mr. Michael Stogner  
Energy and Minerals Department  
State of New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504

Dear Mr. Stogner:

Enclosed herewith are copies of OCD-Form C-131-B, Annual LPG Storage Report for the calendar years 1980 through 1983 covering activity at our underground storage at Loco Hills, New Mexico.

I appreciate very much your assistance on the various matters pertaining to our operation at Loco Hills, and the renewal of our lease with the Commissioner of Public Lands.

Yours very truly,

Robert L. Guest  
Vice President

RLG:ks

Enclosure

*Florine  
Who gets there.*

*M.S.*

NEW MEXICO OIL CONSERVATION DIVISION  
P. O. BOX 2088. SANTA FE, NEW MEXICO 87501

ANNUAL LPG STORAGE REPORT

ARROW GAS COMPANY  
(Company)

P.O. Box 1777, Roswell, N.M.  
(Address)

NAME OF STORAGE PROJECT: Loco Hills COUNTY Eddy REPORT YEAR 1980

WELL NAME AND NUMBER	LOCATION				MAXIMUM INJECTION PRESSURE	INJECTION (BBLs)	WITHDRAWAL (BBLs)
	UNIT	SEC.	TWP.	RANGE			
Loco Hills #1	22	17S	29E		200-225	37,125	-0-
#2	22	17S	29E		200-225	9,023	-0-
#3	22	17S	29E		200-225	16	58,622
TOTALS						46,164	58,622

CALCULATED RESERVOIR PRESSURE @ END OF YEAR 125 psi

Est. TOTAL CAPACITY (BBLs) 235-238,000 BEGINNING STORAGE (BBLs) 119,330

NET CHANGE (BBLs) (12,458) ENDING STORAGE (BBLs) 106,872

I hereby certify that this report is true and complete to the best of my knowledge and belief.

By  Title Vice President

Date December 4, 1984

NEW MEXICO OIL CONSERVATION DIVISION  
P. O. BOX 2088. SANTA FE, NEW MEXICO 87501

ANNUAL LPG STORAGE REPORT

ARROW GAS COMPANY  
(Company)

P.O. Box 1777, Roswell, N.M.  
(Address)

NAME OF STORAGE PROJECT: Loco Hills COUNTY Eddy REPORT YEAR 1981

WELL NAME AND NUMBER	LOCATION				MAXIMUM INJECTION PRESSURE	INJECTION (BBLs)	WITHDRAWAL (BBLs)
	UNIT	SEC.	TWP.	RANGE			
Loco Hills #1		22	17S	29E	200-225	32,061	117
#2		22	17S	29E	200-225	117	17,981
#3		22	17S	29E	200-225	86,643	15,309
TOTALS						118,821	87,407

CALCULATED RESERVOIR PRESSURE @ END OF YEAR 125 psi

Est. TOTAL CAPACITY (BBLs) 235-238,000 BEGINNING STORAGE (BBLs) 106,872

NET CHANGE (BBLs) 31,414 ENDING STORAGE (BBLs) 138,286

I hereby certify that this report is true and complete to the best of my knowledge and belief.

By *RS Evers* Title Vice President

Date December 4, 1984

NEW MEXICO OIL CONSERVATION DIVISION  
P. O. BOX 2088, SANTA FE, NEW MEXICO 87501

ANNUAL LPG STORAGE REPORT

ARROW GAS COMPANY  
(Company)

P.O. Box 1777, Roswell, N.M.  
(Address)

NAME OF STORAGE PROJECT: Loco Hills COUNTY Eddy REPORT YEAR 1982

WELL NAME AND NUMBER	LOCATION				MAXIMUM INJECTION PRESSURE	INJECTION (BBLS)	WITHDRAWAL (BBLS)
	UNIT	SEC.	TWP.	RANGE			
Loco Hills #1		22	17S	29E	200-225	-0-	-0-
#2		22	17S	29E	200-225	26,592	22,731
#3		22	17S	29E	200-225	-0-	35,225
TOTALS						26,592	57,956

CALCULATED RESERVOIR PRESSURE @ END OF YEAR 125 psi

Est. TOTAL CAPACITY (BBLS) 235-238,000 BEGINNING STORAGE (BBLS) 138,286

NET CHANGE (BBLS) (31,364) ENDING STORAGE (BBLS) 106,922

I hereby certify that this report is true and complete to the best of my knowledge and belief.

By *R. L. Guss* Title Vice President

Date December 4, 1984

NEW MEXICO OIL CONSERVATION DIVISION  
P. O. BOX 2088. SANTA FE, NEW MEXICO 87501

ANNUAL LPG STORAGE REPORT

ARROW GAS COMPANY  
(Company)

P.O. Box 1777, Roswell, N.M.  
(Address)

NAME OF STORAGE PROJECT: Loco Hills COUNTY Eddy REPORT YEAR 1983

WELL NAME AND NUMBER	LOCATION				MAXIMUM. INJECTION PRESSURE	INJECTION (BBLS)	WITHDRAWAL (BBLS)
	UNIT	SEC.	TWP.	RANGE			
Loco Hills #1		22	17S	29E	200-225	-0-	68,750
#2		22	17S	29E	200-225	3,830	2,071
#3		22	17S	29E	200-225	97,905	41,008
TOTALS						101,735	111,829

CALCULATED RESERVOIR PRESSURE @ END OF YEAR 125 psi

Est. TOTAL CAPACITY (BBLS) 235-238,000 BEGINNING STORAGE (BBLS) 106,922

NET CHANGE (BBLS) (10,094) ENDING STORAGE (BBLS) 96,828

I hereby certify that this report is true and complete to the best of my knowledge and belief.

By  Title Vice President

Date December 4, 1984





**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102

Manufacturing Department

OIL CONSERVATION DIVISION  
RECEIVED

'91 SEP 9 AM 9 15

August 29, 1991

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN GW-5

Mr. William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. Roger C. Anderson  
Environmental Engineer

Dear Mr. Anderson:

I have attached an updated copy of our Waste Management Plan for our Eunice Plant. This information replaces that found in Section XI of our Discharge Plan.

If you find that you have any questions, or need further information, please contact Linda Johnson, or me, at (918) 560-4138.

Very truly yours,

  
L. T. Reed, Senior Engineer  
Environmental Affairs

LTR:LLJ:ls

Attachment

cc: B. G. Schulz  
F. C. Noah, Eunice  
File: VII.B.3.d(C). and Discharge Plan

1639/LLJ/08291/L/DISC PLN CW-5

For Packed  
by 10/1/91

## WASTE MANAGEMENT PLAN

### EUNICE GAS PROCESSING PLANT

This Waste Management Plan has been developed to meet Corporate and Governmental requirements concerning disposal of various operating materials at the end of its useful life.

At the present time, the EUNICE Plant does not generate any RCRA hazardous wastes. If or when it should be determined a hazardous waste exists, it will be disposed of according to RCRA standards with documentation and proper manifests in an approved hazardous waste disposal site. Formal contracts will be negotiated and disposal site inspections will be performed.

1. The following list shows the types, expected amounts, and source of wastes which are generated at the EUNICE facility:

ITEM	TYPE	EXPECTED AMOUNT	SOURCE
Filters	Amine, Dust, Oil, Product, Gas	460/yr	Amine filter case, Engine oil filter case, Product case, Fuel Filter Dust Filter
Cooling Tower Blowdown	Water	9,750,000 gal/yr	Cooling Tower
Boiler Blowdown	Water	4,230,000 gal/yr	Boiler & Evaporator
Plant Trash	Paper, Wood, Cardboard, Household items, Styrofoam, paint cans-lead free, miscellaneous	780 yds/yr	Office, Shop, Plant trash
Cooling tower Basin Sludge		64 yds/2 yrs	Cooling Tower
Tank Bottoms	None		
Solvent		1000 gal/yr	Chevron
Steel Drums	Boiler & Cooling Tower Chemicals	11/yr	Boiler & Cooling Tower Chemicals
Concrete	Abandoned on Property		

ITEM	TYPE	EXPECTED AMOUNT	SOURCE
Molecular Sieve	Dehydrators	38,000 lbs/5 yrs	Gas dehydrators
Activated Alumina, Ion Exchange Resin	Water Treaters	200 cu.ft./5yrs	Zeolite Beds
Caustic	None		
Glycol	None		
Amine	None		
Hydrogen Sulfide		5 tons/day	Green Gas
Carbon Dioxide		73 MCFD	Green Gas
Wash Water.		905,000 gal/yr	Engine Room
Produced Water, from compression		1,540,000 gal./yr	Green Gas
Brine Water	Saturated	144,000 gal/yr	Zeolite Beds
Amine Reclaimer Bottoms		1200 gal/yr	MEA Reclaimer
Hydrostatic Test Water		None	
Iron Sponge		None	
Sump or Pit Sludge		None	
Used Oil	Engine	700 gal/yr	Engines
Asbestos		N/A	Insulation
Sanitary Waste		N/A	Septic Tanks
Lab Chemicals		N/A	Lab

## Waste management Plan

- 1a. If Asbestos is encountered, it will be tagged and when necessary disposed of according to approved methods.
2. For the listed wastes, operating procedures are followed to minimize the amounts generated; such as steel drums are exchanged with vendor.
3. All wastes listed in No. 1 have been properly classified as hazardous or non-hazardous. If a waste cannot be positively identified as hazardous or non-hazardous, then the Warren Petroleum Environmental Affairs Department will be contacted to recommend an outside company to do testing and analysis.
4. The necessary safety precautions for handling each waste listed in No. 1 above should be taken to avoid adverse health affects. The Safety Department and Environmental Department are contacted when specific precautions are needed. Reference to the Material Safety Data Sheets (MSDS) is made concerning proper handling of all products.
5. Potential for waste recycling is considered when the use of waste is feasible is alternative processes, such as re-injecting water into a producing formation for enhanced oil recovery.

6. Following is the proper disposal methods in use for each of the waste items listed in No. 1.

Filter - Waste Control of New Mexico  
Cooling Tower Blowdown - Disposal well on site  
Boiler Blowdown - Disposal well on site  
Plant Trash - Waste control of New Mexico  
Steel Drums - (emptied - crushed) Waste Control of New Mexico  
Sieve, alumina, resin - Land farm within plant boundaries  
Amine - Disposal well on site - *for spent not spilled.*  
Wash Water - Disposal well on site  
Produced Water from Compression - Disposal well on site  
Brine Water - Disposal well on site  
Amine Reclaimer Bottoms - Disposal well on site since it does  
not contain vanadium nor is it  
considered hazardous.  
\*  
*Non-Exempt*  
Used Oil - Slop oil tank  
Solvent - Slop oil tank  
Hydrogen Sulfide - Burned completely to sulfur dioxide

7. Anything pertaining to the plant that is specific and not covered above.

Nothing at this time.

  
\_\_\_\_\_  
Plant Manager Approval

  
\_\_\_\_\_  
Environmental Department Approval



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102

Oil Conservation Division  
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Manufacturing Department

May 29, 1991

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN RENEWAL

William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Roger C. Anderson  
Environmental Engineer

Dear Mr. Anderson:

On May 28, 1991, we completed changes to alleviate overspray in the low pressure collection sump located in the Southeast corner of the plant. Currently, the first stage inlet is the only source to the area. The inlet pressure varies from 6 to 12 psi to the area. We see a noticeable improvement.

In addition, I have attached memos dated March 6, 1991, which address correction to our washing procedure for our residue compressors to prevent water standing in the area, and to our filling procedure for the tractor and fire pump engine which will keep the diked area free of spilled diesel.

We are continuing with our underground pipe testing program and are planning to have it completed by December 31, 1991. Meanwhile, if you have any questions, or need further information, please contact Linda Johnson, or me, at (918) 560-4138.

Very truly yours,

L. T. Reed, Senior Engineer  
Environmental Affairs

LTR/LLJ:fy  
Attachments

cc: B. G. Schulz  
F. C. Noah - Eunice  
File:With Discharge Plan and VII.B.3.d.(A).

1639/LLJ/05291/L/DISCHARGE PLN

# Memorandum

## WASHING PRODEDURE FOR:

### #17 AND #18 WAUKESHAS

When washing floors, always try to wash from outside inward, so that oil and water will go into drain system on south end of engines. In doing this, we should be able to keep water and oil from going onto the ground to a minimum.



W. L. Foreman

WLF:dkm  
03/06/91



# Memorandum

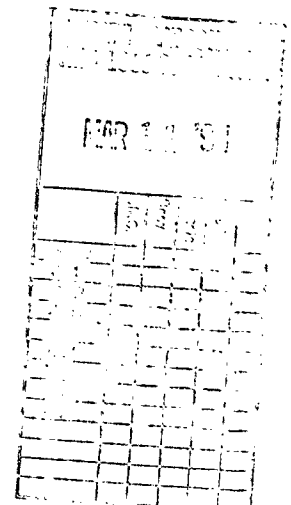
**FILLING PROCEDURES FOR:**  
**TRACTOR AND FIRE PUMP ENGINE.**

When filling tractor, be sure that nozzle is in tank before opening valve. Be very careful to not overfill and spill diesel on the ground. When filling container for fire pump engine, be sure to fill container inside of concrete containment pit. Try not to spill any liquids outside of containment pit.

*W. L. Foreman*

W. L. Foreman

WLF:dkm  
03/06/91





STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

May 9, 1991

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

CERTIFIED MAIL  
RETURN RECEIPT NO. P-327-278-160

Ms. L. T. Reed, Senior Engineer  
Warren Petroleum Company  
P. O. Box 1589  
Tulsa, Oklahoma 74102

RE: Discharge Plan GW-5  
Eunice Gas Processing Plant  
Lea County, New Mexico

Dear Ms. Reed:

The ground water discharge plan renewed (GW-5) for the Warren Petroleum Company Eunice Gas Processing Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico is hereby approved. The renewal application consists of the original discharge plan as approved May 16, 1981 and renewed May 9, 1986, and the renewal application dated February 27, 1991.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations. It is renewed pursuant to Section 3-109.A., please note Section 3-109.F., which provides for the possible future amendments of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations.

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

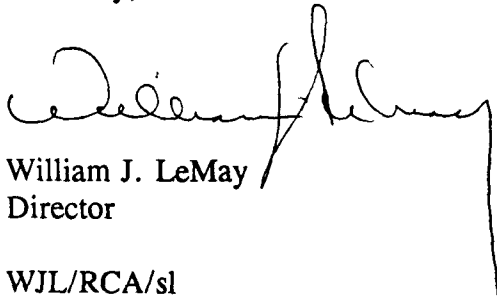
Please note that Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Ms. L. T. Reed  
May 9, 1991  
Page -2-

Pursuant to Section 3-109.G.4., this plan approval is for a period of five (5) years. This approval will expire May 16, 1996 and you should submit an application for renewal in ample time before that date. It should be noted that all gas processing plants and oil refineries in excess of twenty-five years of age will be required to submit plans for, or the results of an underground drainage testing program as a requirement for discharge plan renewal.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

A handwritten signature in dark ink, appearing to read 'William J. LeMay', with a long, vertical flourish extending from the bottom right of the signature.

William J. LeMay  
Director

WJL/RCA/sl

cc: OCD Hobbs Office



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.

P.O. Box 1589, Tulsa, OK 74108

OIL CONSERVATION DIVISION  
RECEIVED

31 MAY 3 AM 8 49

Manufacturing Department

May 1, 1991

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN RENEWAL

William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Roger C. Anderson  
Environmental Engineer

Dear Mr. Anderson:

On April 30, 1991, we completed the repair of our lube oil tank that had developed a leak. The tank was cleaned and sand blasted before the bottom was recoated. We plan to resume service for this tank on May 6, 1991.

Meanwhile, if you have any questions, or need further information, please contact Linda Johnson, or me, at (918) 560-4138.

Very truly yours,

L. T. Reed, Senior Engineer  
Environmental Affairs

LTR/LLJ:fy

cc: B. G. Schulz  
F. C. Noah - Eunice  
File:With Discharge Plan and VII.B.3.d.(A)

1639/LLJ/05011/L/OIL CONSV DIV



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102

Manufacturing Department

OIL CONSERVATION DIVISION  
RECEIVED

'91 APR 18 AM 9 10

April 16, 1991

William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Roger C. Anderson  
Environmental Engineer

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN RENEWAL

Dear Mr. Anderson:

As we discussed during your February 6, 1991 visit to the subject facility, we completed adding a metal drip pan under each of the four valves which exit the bottom of the horizontal lube oil tank. This work was completed April 12, 1991.

Meanwhile, if you have any questions, or need further information, please contact Linda Johnson, or me, at (918)560-4138

Very truly yours,

L. T. Reed, Senior Engineer  
Environmental Affairs

LTR/LLJ:fy

cc: B. G. Schulz  
F. C. Noah - Eunice  
File: With Discharge Plan and VII.B.3.d.(A).

1639/LLJ/04161/L/EUN DISG RNWL



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE**  
Ecological Services  
Suite D, 3530 Pan American Highway, NE  
Albuquerque, New Mexico 87107

April 12, 1991

*David B*  
OIL CONSERVATION DIVISION  
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'91 APR 18 AM 9 23

Mr. William J. Lemay, Director  
New Mexico Energy, Minerals and  
Natural Resources Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the Public Notice dated March 20 and 21, 1991, regarding the affects of granting State of New Mexico groundwater discharge permits on fish, shellfish and wildlife resources in New Mexico.

The U.S. Fish and Wildlife Service (Service) has determined that there are no wetlands or other environmentally sensitive habitats that will be adversely affected by the following discharges.

GW-5 Warren Petroleum Company, Eunice Gas Processing Plant, Lea County, New Mexico.

GW-65 Gas Company of New Mexico, Rio Puerco Compressor Station, Valencia County, New Mexico.

GW-66 Gas Company of New Mexico, Santa Fe Junction Compressor Station, Sandoval County, New Mexico.

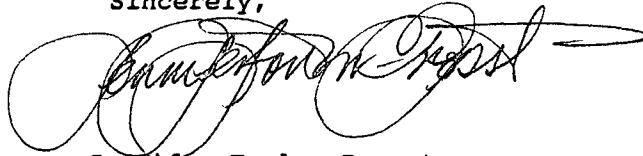
Direct adverse impacts to migratory birds will occur from petroleum hydrocarbon contamination if the birds gain access to the oil that is present on the ponds or tanks as noted by visible oil sheens. Migratory birds that become covered by or ingest oil typically suffer mortality due to hypothermia or poisoning. The Service recommends that all tanks and ponds, regardless of size, be netted to prevent any access by migratory birds.

Migratory birds are protected under the Migratory Birds Treaty Act (MBTA). If migratory birds become exposed to or accumulate harmful levels of contaminants, this constitutes "take" under the MBTA. The MBTA makes it unlawful for anyone at any time or in any manner to ". . . kill . . ." any migratory birds unless permitted by regulations promulgated under the Act.

The courts have stated that the MBTA can be constitutionally applied to impose penalties to persons, associations, partnerships, or corporations that did not intend to "kill" migratory birds and that the MBTA includes poisoning by any means. The MBTA holds that the unlawful killing of even one migratory bird is an offense (Olive, S.W. and R.L. Johnson. 1986. Environmental Contaminants: Selected Legal Topics. Fish and Wildlife Service Biological Report 87(1) November 1986).

These comments represent the views of the Service. If you have any questions concerning our comments, please contact Scott P. Hamilton-McLean at FTS 474-7877 or (505) 883-7877.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Fowler-Propst", with a long horizontal flourish extending to the right.

Jennifer Fowler-Propst  
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico  
Regional Administrator, Environmental Protection Agency, Dallas, Texas  
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife  
Enhancement, Albuquerque, New Mexico

Regional Director, U.S. Fish and Wildlife Service, Division of Law  
Enforcement, Albuquerque, New Mexico

Regional Oil Pits Coordinator, U.S. Fish and Wildlife Service, Division of  
Refuges, Albuquerque, New Mexico

**NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES  
DEPARTMENT**

**OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following application to expand a commercial solid waste disposal facility has been submitted for approval to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-5) - Warren Petroleum Company, L.T. Reed, Senior Engineer, P.O. Box 1589, Tulsa, Oklahoma, 74102, has submitted an application for renewal of its previously approved discharge plan for its Eunice Gas Processing Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 48000 gallons per day of process wastewater with a total dissolved solids concentration of approximately 3800 mg/l is disposed of in an OCD permitted on site Class II disposal well. Groundwater most likely to be affected by any spill, leak or other accidental discharge to the surface is at a depth of approximately 90 feet with a total dissolved solids concentration ranging from 400 to 2000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

In no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and the information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 1991.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
s/WILLIAM J. LEMAY, Director  
Journal: April 1, 1991

**STATE OF NEW MEXICO  
County of Bernalillo**

SS

OIL CONSERVATION DIVISION  
RECEIVED

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for ..... times, the first publication being on the ..... day  
of ..... 1991, and the subsequent consecutive  
publications on ..... 1991.

Bernadette City

Sworn and subscribed to before me, a Notary Public in  
and for the County of Bernalillo and State of New  
Mexico, this ..... day of ..... 1991.

PRICE.....

\$ 23.13

Statement to come at end of month.

CLA-22-A (R-12/91)

ACCOUNT NUMBER..... C80932



# Affidavit of Publication

LEGAL NOTICE  
NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES  
DEPARTMENT  
OIL CONSERVATION  
DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505)827-5800:

(GW-5)-Warren Petroleum Company, L.T. Reed, Senior Engineer, P.O. Box 1589, Tulsa, Oklahoma, 74102, has submitted an application for renewal of its previously approved discharge plan for its Eunice Gas Processing Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM Lea County, New Mexico. Approximately 45000 gallons per day of process wastewater with a total dissolved solids concentration of approximately 3600 mg/l is disposed of in an OCD permitted on site Class II disposal well. Groundwater most likely to be affected by any spill, leak or other accidental discharge to the surface is at a depth of approximately 90 feet with a total dissolved solids concentration ranging from 400 to 2000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interest person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New

Mexico, on this 20th day of March, 1991. To be published on or before March 29, 1991.

STATE OF NEW MEXICO  
OIL CONSERVATION  
DIVISION

WILLIAM J. LEMAY,  
Director

SEAL

Published in the Lovington  
Daily Leader March 27, 1991.

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF LEA )

**Joyce Clemens** being first duly sworn on oath deposes and says that he is **Adv. Director** of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

## Notice Of Publication

and numbered ..... in the ..... Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1)

consecutive weeks, beginning with the issue of March 27, 1991

and ending with the issue of March 27, 1991

And that the cost of publishing said notice is the sum of \$ 28.62

which sum has been (Paid) ~~(Assessed)~~ <sup>XXXXXXX</sup> as Court Costs

*Joyce Clemens*  
Subscribed and sworn to before me this 27th

day of March, 1991

*Mrs. Jean Sever*  
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 1994

**NOTICE OF PUBLICATION**

**STATE OF NEW MEXICO**

**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

**OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

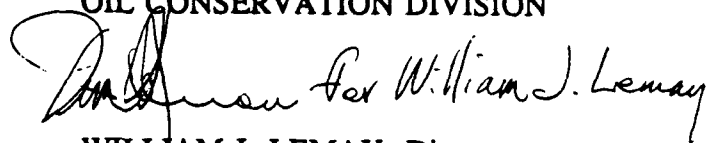
(GW-5) - Warren Petroleum Company, L. T. Reed, Senior Engineer, P. O. Box 1589, Tulsa, Oklahoma, 74102, has submitted an application for renewal of its previously approved discharge plan for its Eunice Gas Processing Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 45000 gallons per day of process wastewater with a total dissolved solids concentration of approximately 3600 mg/l is disposed of in an OCD permitted on site Class II disposal well. Groundwater most likely to be affected by any spill, leak or other accidental discharge to the surface is at a depth of approximately 90 feet with a total dissolved solids concentration ranging from 400 to 2000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 1991. To be published on or before March 29, 1991.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY, Director

S E A L



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.

P.O. Box 1589, Tulsa, OK 74102

Manufacturing Department

OIL CONSERVATION DIVISION  
RECEIVED

'91 MAR 14 AM 9 25

March 11, 1991

William J. LeMay, Director  
State of New Mexico  
Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Roger C. Anderson  
Environmental Engineer

EUNICE GAS PROCESSING PLANT  
LEA COUNTY, NEW MEXICO  
DISCHARGE PLAN RENEWAL

Dear Mr. Anderson:

This letter is to advise you that the concrete pad for the larger lube oil tank has been extended twelve inches with a lip six inches wide and six inches high. The concrete pad was widened to include the pump.

Please note that we are proceeding with pricing to decide replacing the larger lube oil tank. We will let you know of our decision by April 30, 1991.

Meanwhile, if you have any questions, or need further information, please contact Linda Johnson, or me, at (918)560-4138

Very truly yours,

L. T. Reed, Senior Engineer  
Environmental Affairs

LTR: fy

cc: B. G. Schulz  
F. C. Noah - Eunice  
File: With Discharge Plan and VII.B.3.d.(A).

1639/LLJ/03111/L/EUN DISG RNWL

File Copy

Meeting w/ Warren Petroleum 8/1/90  
Eunice D.P. renewal

Lynn Reed Senior Eng.  
Scott Wilson Manager ENV & Safety  
Tim Helbig ENV. Affairs, Engineering  
FORREST Noah Plant Manager Eunice

Reviewed renewal requirements - Plan  
expires May 16, 1991 ?

- Stressed testing of underground drainlines
- Curbing, berming required <sup>at</sup> fluid storage areas
- Capture of leaking fluids from process areas required
- Inspection will be conducted sometime this fall - deficiencies to be addressed as discharge plan commitments
- Testing and modifications to be completed during time of ~~next~~ 5-year plan approval. Company to provide plans and schedule for completion

Plant inspection - general policy against  
boards at plant - Not company rule  
Discharge Plan: contact is Linda Johnson of  
Warren

WFF Borg 8/1/90  
(copy to Warren)



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

July 26, 1990

CERTIFIED MAIL  
RETURN RECEIPT NO. P-918-402-378

Ms. L. T. Reed, Senior Engineer  
Warren Petroleum Company  
P. O. Box 1589  
Tulsa, Oklahoma 74102

RE: Discharge Plan GW-5  
Eunice Gas Processing Plant  
Lea County, New Mexico

Dear Ms. Reed:

On May 9, 1986, the renewal of ground water discharge plan, GW-5 for the Warren Petroleum Eunice Gas Processing Plant located in the NE/4, Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, was approved by the Director of the Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on May 16, 1991.

If your facility continues to have effluent or leachate discharges and you wish to continue discharging, please submit your application for renewal of plan approval as quickly as possible. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can often extend for several months. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, include an application for plan amendment with your application for renewal. To assist you in preparation of your renewal application, I have enclosed a copy of the OCD's guidelines for preparation of ground water discharge plans at natural gas processing plants. These guidelines are presently being revised to include berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes. Please include these items in your renewal application.

Ms. L. T. Reed

July 26, 1990

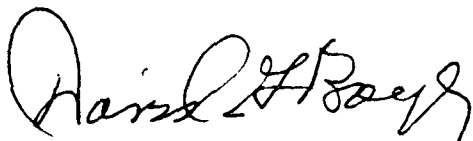
Page -2-

If you no longer have such discharges and discharge plan renewal is not needed, please notify this office.

Please note that all gas plants, refineries and compressor stations in excess of 25 years of age will be required to submit plans for, or the results of, an underground drainline testing program as a requirement for discharge plan renewal.

If you have any questions, please do not hesitate to contact Roger Anderson at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script, appearing to read "David G. Boyer".

David G. Boyer, Hydrogeologist  
Environmental Bureau Chief

DGB/sl

Enclosure

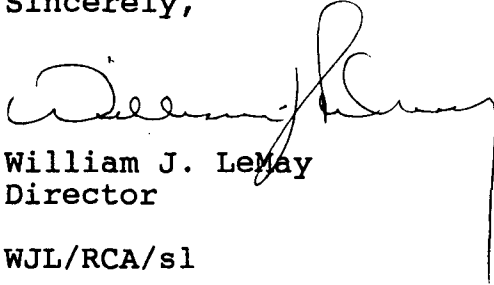
cc: OCD Hobbs Office

Mr. R. L. Guest  
January 3, 1990  
Page -2-

Pursuant to Section 3-109.G.4, this plan approval is for a period of five (5) years. This approval will expire February 27, 1995 and you should submit an application for renewal in ample time before that date.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



William J. LeMay  
Director

WJL/RCA/sl

cc: OCD Artesia Office





New Mexico Health and Environment Department  
SCIENTIFIC LABORATORY DIVISION  
700 Camino de Salud NE  
Albuquerque, NM 87106 — (505) 841-2555

859 WNN

GENERAL WATER CHEMISTRY  
and NITROGEN ANALYSIS

DATE RECEIVED 12/01/89	LAB NO. <u>ALC 3921</u>	USER CODE <input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE 11/28/89	SITE INFORMATION	Sample location <u>ARROW GAS - LOCO HILLS</u>
Collection TIME 1300		Collection site description <u>BRINE POND</u>
Collected by — Person/Agency <u>ANDERSON</u>	<u>10CD</u>	

SEND FINAL REPORT TO

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg, PO Box 2088  
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

SAMPLING CONDITIONS

<input type="checkbox"/> Bailed <input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Pump <input type="checkbox"/> Tap	Water level	Discharge	Sample type <u>GRAB</u>
pH (00400) <u>7</u>	Conductivity (Uncorrected) <u>50000+</u> $\mu$ mho	Water Temp. (00010) <u>11</u> °C	Conductivity at 25°C (00094) $\mu$ mho	
Field comments				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted <u>1</u>	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 $\mu$ m membrane filter	<input type="checkbox"/> A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
<input checked="" type="checkbox"/> NA: No acid added	<input type="checkbox"/> Other-specify:	<input type="checkbox"/> A: 5ml conc. HNO <sub>3</sub> added	<input type="checkbox"/> A: 4ml fuming HNO <sub>3</sub> added

ANALYTICAL RESULTS from SAMPLES

NA	Units	Date analyzed
<input checked="" type="checkbox"/> Conductivity (Corrected) 25°C (00095)	<u>142123</u> $\mu$ mho	<u>1-3</u>
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)	mg/l	
<input checked="" type="checkbox"/> Other: pH	<u>7.04</u>	<u>12/14</u>
<input type="checkbox"/> Other:		
<input type="checkbox"/> Other:		
<b>A-H<sub>2</sub>SO<sub>4</sub></b>		
<input type="checkbox"/> Nitrate-N +, Nitrate-N total (00630)	mg/l	
<input type="checkbox"/> Ammonia-N total (00610)	mg/l	
<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l	
<input type="checkbox"/> Chemical oxygen demand (00340)	mg/l	
<input type="checkbox"/> Total organic carbon ( )	mg/l	
<input type="checkbox"/> Other:		
<input type="checkbox"/> Other:		

From <u>NF</u> , NA Sample:	Date Analyzed
<input checked="" type="checkbox"/> Calcium <u>2140</u> mg/l	<u>12/06</u>
<input checked="" type="checkbox"/> Potassium <u>1365</u> mg/l	<u>12/03</u>
<input checked="" type="checkbox"/> Magnesium <u>1865</u> mg/l	<u>12/06</u>
<input checked="" type="checkbox"/> Sodium <u>122,500</u> mg/l	<u>12/13</u>
<input checked="" type="checkbox"/> Bicarbonate <u>103</u> mg/l	<u>12/14</u>
<input checked="" type="checkbox"/> Chloride <u>200000</u> mg/l	<u>12/20</u>
<input checked="" type="checkbox"/> Sulfate <u>3310</u> mg/l	<u>12/19</u>
<input checked="" type="checkbox"/> Total Solids <u>367,000</u> mg/l	<u>12/22</u>
<input checked="" type="checkbox"/> Bromide <u>0.42</u>	<u>12/12/89</u>
<input type="checkbox"/>	
<input checked="" type="checkbox"/> Cation/Anion Balance	
Analyst	Date Reported <u>11/10/90</u>
	Reviewed by <u>CS</u>

Laboratory remarks

FOR OCD USE -- Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_\_ Initials \_\_\_\_\_

## CATIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	106.79	2140.00	<3.0
Mg	153.18	1865.00	<0.3
Na	5241.41	120500.00	<10.0
K	34.91	1365.00	<0.3

Mn	0.00	0.00
Fe	0.00	0.00

SUMS 5536.29 125870.00

Total Dissolved Solids= 367000  
Ion Balance = 96.92%

## ANIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
HC03	1.69	103.00	<1.0
SO4	68.96	3310.00	<10.0
CL	5641.75	#####	<5.0

NO3	0.00	0.00	< 0.
C03	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.

5712.40 #####

WC No. = 893921  
Date out/By CS 1/10/90OIL CONSERVATION DIVISION  
RECEIVED  
90 JAN 22 AM 9 43



New Mexico Health and Environment Department  
SCIENTIFIC LABORATORY DIVISION  
700 Camino de Salud NE  
Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY  
and NITROGEN ANALYSIS

859 WNN

DATE RECEIVED <u>12/01/89</u>	LAB NO. <u>WA 3918</u>	USER CODE <input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE <u>89/11/28</u>	SITE INFORMATION	Sample location <u>ARROW GAS - LOCO HILLS</u>
Collection TIME <u>1330</u>		Collection site description <u>LEAK DETECTION SUMP</u>
Collected by — Person/Agency <u>ANDERSON</u>	/OCD	

SEND  
FINAL  
REPORT  
TO

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg, PO Box 2088  
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

SAMPLING CONDITIONS

<input checked="" type="checkbox"/> Bailed <input type="checkbox"/> Dipped	<input type="checkbox"/> Pump <input type="checkbox"/> Tap	Water level	Discharge	Sample type <u>GRAB</u>
pH (00400) <u>7</u>	Conductivity (Uncorrected) <u>50000+</u> $\mu$ mho	Water Temp. (00010) <u>14</u> °C	Conductivity at 25 °C (00094) $\mu$ mho	
Field comments				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted <u>1</u>	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 $\mu$ m membrane filter	<input type="checkbox"/> A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
<input checked="" type="checkbox"/> NA: No acid added	<input type="checkbox"/> Other-specify:	<input type="checkbox"/> A: 5ml conc. HNO <sub>3</sub> added	<input type="checkbox"/> A: 4ml fuming HNO <sub>3</sub> added

ANALYTICAL RESULTS from SAMPLES

NA	Units	Date analyzed	From <u>NF</u> , NA Sample:	Date Analyzed
<input checked="" type="checkbox"/> Conductivity (Corrected) 25°C (00095)	<u>134600</u> $\mu$ mho	<u>1-3</u>	<input checked="" type="checkbox"/> Calcium <u>3172</u> mg/l	<u>12/06</u>
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)			<input checked="" type="checkbox"/> Potassium <u>502</u> mg/l	<u>12/13</u>
<input checked="" type="checkbox"/> Other: <u>pH</u>	<u>6.77</u>	<u>12/14</u>	<input checked="" type="checkbox"/> Magnesium <u>1821</u> mg/l	<u>12/06</u>
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Sodium <u>96000</u> mg/l	<u>12/13</u>
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Bicarbonate <u>128</u> mg/l	<u>12/14</u>
<b>A-H<sub>2</sub>SO<sub>4</sub></b>			<input checked="" type="checkbox"/> Chloride <u>145500</u> mg/l	<u>12/19</u>
<input type="checkbox"/> Nitrate-N +, Nitrate-N total (00630)			<input checked="" type="checkbox"/> Sulfate <u>2980</u> mg/l	<u>12/19</u>
<input type="checkbox"/> Ammonia-N total (00610)			<input checked="" type="checkbox"/> Total Solids <u>401,000</u> mg/l	<u>12/22</u>
<input type="checkbox"/> Total Kjeldahl-N ( )			<input checked="" type="checkbox"/> Bromide <u>0.45</u>	<u>12/12/89</u>
<input type="checkbox"/> Chemical oxygen demand (00340)			<input type="checkbox"/>	
<input type="checkbox"/> Total organic carbon ( )			<input checked="" type="checkbox"/> Cation/Anion Balance	
<input type="checkbox"/> Other:			Analyst	Date Reported
<input type="checkbox"/> Other:				<u>1/10/90</u>
Laboratory remarks <u>*upper reliability of our conduct. meter appears to be + around 100,000 <math>\mu</math>m</u>				

FOR OCD USE -- Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_\_ Initials \_\_\_\_\_

## CATIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	158.28	3172.00	<3.0
Mg	149.57	1821.00	<0.3
Na	4175.73	96000.00	<10.0
K	12.97	507.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	

SUMS 4496.55 101500.00

Total Dissolved Solids= 401000  
Ion Balance = 107.87%

## ANIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
HC03	2.10	128.00	<1.0
SO4	62.08	2980.00	<10.0
CL	4104.37	#####	<5.0
NO3	0.00	0.00	< 0.
C03	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.

4168.55 #####

WC No. = 8903918  
Date out/By CS 1/10/72CIL CONSERVATION DIVISION  
RECEIVED  
90 JAN 22 AM 9 43



New Mexico Health and Environment Department  
SCIENTIFIC LABORATORY DIVISION  
700 Camino de Salud NE  
Albuquerque, NM 87106

# HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	12/01/89	Lab No.	ICAP 547	User Code	X 82235	<input type="checkbox"/> Other:		
COLLECTION DATE & TIME:				yy	mm	dd	hh	mm
				89	11	28	13	00

COLLECTED BY: ANDERSON

COLLECTION SITE DESCRIPTION  
ARROJO GAS LOCO HILLS  
BRINE POND

TO: Rev 2 12/26/89  
228

OWNER: \_\_\_\_\_

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg., PO Box 2088  
SANTA FE, NM 87504-2088

SITE LOCATION:  
County: EDDY

Township, Range, Section, Tract: (10N06E24342)  
+ + +

ATTN: DAVE BOYER  
TELEPHONE: 827-5812

STATION/ WELL CODE: \_\_\_\_\_

LATITUDE, LONGITUDE: \_\_\_\_\_

## SAMPLING CONDITIONS:

<input type="checkbox"/> Bailed	<input type="checkbox"/> Pump	Water Level:	Discharge:	Sample Type:
<input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Tap			<u>GRAB</u>
pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C	
<u>7</u>	<u>50000+</u> $\mu$ mho	<u>11</u> °C	<u>11</u> °C	<u>11</u> $\mu$ mho

FIELD COMMENTS: \_\_\_\_\_

## SAMPLE FIELD TREATMENT

Check proper boxes:

<input checked="" type="checkbox"/> WPN: Water Preserved w/HNO <sub>3</sub> Non-Filtered	<input type="checkbox"/> WPF: Water Preserved w/HNO <sub>3</sub> Filtered
--	---

## LAB ANALYSIS REQUESTED:

<input checked="" type="checkbox"/> ICAP Scan
Mark box next to metal if AA is required.

## ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	<u>&lt;0.1</u>		Silicon	<u>3.6</u>	
Barium	<u>&lt;0.1</u>		Silver	<u>&lt;0.1</u>	<input type="checkbox"/>
Beryllium	<u>&lt;0.1</u>		Strontium	<u>67.1</u>	
Boron	<u>6.9</u>		Tin	<u>&lt;0.1</u>	
Cadmium	<u>&lt;0.1</u>	<input type="checkbox"/>	Vanadium	<u>&lt;0.1</u>	
Calcium	<u>2800.</u>		Zinc	<u>&lt;0.1</u>	
Chromium	<u>&lt;0.1</u>	<input type="checkbox"/>	Arsenic		<input checked="" type="checkbox"/> <u>0.035</u>
Cobalt	<u>&lt;0.05</u>		Selenium		<input type="checkbox"/>
Copper	<u>&lt;0.1</u>		Mercury		<input type="checkbox"/>
Iron	<u>&lt;0.1</u>				<input type="checkbox"/>
Lead	<u>&lt;0.05</u> <u>&lt;0.1</u>	<input type="checkbox"/>			<input type="checkbox"/>
Magnesium	<u>1700.</u>				<input type="checkbox"/>
Manganese	<u>0.78</u>				<input type="checkbox"/>
Molybdenum	<u>&lt;0.1</u>				<input type="checkbox"/>
Nickel	<u>&lt;0.1</u>				<input type="checkbox"/>

LAB COMMENTS: DIGESTED

## For OCD Use:

Date Owner Notified:	ICAP Analyst <u>my</u>	Reviewer <u>J. Ashley</u>
Phone or Letter?	Date Analyzed <u>12-7-89</u>	Date Received <u>12/20/89</u>
Initials:		



UNITED STATES VARIATION DIVISION  
DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE  
Ecological Services  
Suite D, 3530 Pan American Highway, NE  
Albuquerque, New Mexico 87107

November 21, 1989

Mr. William J. Lemay, Director  
State of New Mexico Energy, Minerals and  
Natural Resources Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the public notice received November 7, 1989, regarding the effects on fish, shellfish and wildlife resources by the granting of discharge permits. We have used the information in the public notice as a guide to narrow our comments to the species and habitats that would be affected by each discharge.

(GW-22) Amoco Production Company, Empire Abo Gasoline Plant, located in SE/4, Section 3, Township 18 South, Range 37 East, NMPM, Eddy County, New Mexico.

The Fish and Wildlife Service (Service) recommends the double lined evaporation pond and the above grade steel tanks be covered or screened to exclude migratory birds from gaining access, especially if a film of oil is present on the surface of the water.

(GW-19) Arrow Gas Company, Loco Hills brine discharge facility, located in the NW/4 SE/4 Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

The Service recommends the 2.44 million gallon storage pond be screened to exclude migratory birds from gaining access, especially if a film of oil is present on the surface of the water.

Thank you for the opportunity to comment. If you have any questions, call Rick Roy at (505) 883-7877.

Sincerely yours,

*Thomas F. Peterson*  
for John C. Peterson  
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico  
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife  
Enhancement, Albuquerque, New Mexico

OIL CONSERVATION DIVISION  
RECEIVED

'89 NOV 13 AM 10 16

STATE OF NEW MEXICO  
ENERGY, MINERALS  
AND NATURAL RESOURCES  
DEPARTMENT

OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone: (505) 827-5800:

(GW-22) Amoco Production Company, James F. Trickett, Regional Environmental Safety and Regulatory Affairs Manager, P.O. Box 3092, Houston, Texas 77253, has submitted an application for renewal of its previously approved discharge plan for its Empire Abo Gasoline Plant located in the SE/4, Section 3, Township 18 South, Range 37 East, NMPM, Eddy County, New Mexico. Approximately 17,500 gallons per day of process waste water is disposed of in a double lined evaporation pond with leak detection or stored in above grade steel tanks for disposal at an OCD approved offsite disposal. Waste water has a total dissolved solids (TDS) concentration of approximately 11000 mg/l. Ground water most likely to be affected by any discharge to the surface is at a depth of approximately 50 feet with a total dissolved solids concentrations of approximately 300 mg/l. The discharge plan addresses how spills, leaks or other discharges to the ground will be handled.

(GW-19) Arrow Gas Company, Robert L. Guest, Vice President and General Manager, P.O. Box 1771, Roswell, New Mexico 88201, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Arrow Gas Company proposes continuation of brine discharge to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the domes when propane extraction is desired. The ground water most likely to be affected by any discharges at the surface is at a depth of 75 feet with a concentration in excess of 10,000 mg/l total dissolved solids. The discharge plan addresses how spills, leaks and other discharges to the ground will be handled.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest. If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 31st day of October, 1989. To be published on or before November 10, 1989.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
s/WILLIAM J. LEMAY, Director  
Journal, November 9, 1989

STATE OF NEW MEXICO } ss  
County of Bernalillo

THOMAS J. SMITHSON

being duly sworn declares and

says that he is NATE ADV. MGR. of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 9 day  
of Nov, 1989, and the subsequent consecutive  
publications on Nov, 1989.

OFFICIAL SEAL

Signature: Sylvia L. Nuanes  
SYLVIA L. NUANES  
NOTARY PUBLIC - NEW MEXICO  
ED FILED WITH SECRETARY OF STATE  
Commission Expires 11-18-91

EDJ-15 (R-2/86)

Sworn and subscribed to before me, a Notary Public in and  
for the County of Bernalillo and State of New Mexico,  
this 9 day of Nov, 1989.

PRICE 831.05

Statement to come at end of month.

ACCOUNT NUMBER C811 84

# Affidavit of Publication

# Certificate of Publication

No. 12962

STATE OF NEW MEXICO,  
County of Eddy:

Gary D. Scott

being duly

sworn, says: That he is the Publisher

of The

Artesia Daily Press, a daily newspaper of general circulation,

published in English at Artesia, said county and state, and that

the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia  
Daily Press, a daily newspaper duly qualified for that purpose

within the meaning of Chapter 167 of the 1937 Session Laws of

the State of New Mexico for 1 consecutive weeks on

the same day as follows:

First Publication November 8, 1989

Second Publication

Third Publication

Fourth Publication

and that payment therefore in the amount of \$

has been made.

Subscribed and sworn to before me this 9th day

of November, 1989.

*Barbara Ann Evans*

Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1991

applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-22) Amoco Production Company, James F. Trickett, Regional Environmental Safety and Regulatory Affairs Manager, P.O. Box 3092,

Houston, Texas 77253, has submitted an application for renewal of its previously approved discharge plan for its Empire Abo Gasoline Plant located in the SE/4, Section 3, Township 18 South, Range 37 East, NMPM, Eddy County, New Mexico. Approximately

17,500 gallons per day of process waste water is disposed of in a double lined evaporation pond with leak detection or stored in above grade steel tanks for disposal at an OCD approved offsite disposal. Waste water has a total dissolved solids (TDS) concentration of approximately 11000 mg/l. Ground water most likely to be affected by any discharge to the surface is at a depth of approximately 50 feet with a total dissolved solids concentrations of approximately 300 mg/l. The discharge plan addresses how spills, leaks or other discharges to the ground will be handled.

(GW-19) Arrow Gas Company, Robert L. Guest, Vice President and General Manager, P.O. Box 1771, Roswell, New Mexico 88201, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Arrow Gas Company proposes continuation of brine discharge to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection sys-

tem. The brine is reinjected to the domes when propane extraction is desired. The ground water most likely to be affected by any discharges at the surface is at a depth of 75 feet with a concentration in excess of 10,000 mg/l total dissolved solids. The discharge plan addresses how spills, leaks and other discharges to the ground will be handled.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest. If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 31st day of October, 1989. To be published on or before November 10, 1989.

STATE OF NEW MEXICO  
OIL CONSERVATION  
DIVISION

s- William J. LeMay  
WILLIAM J. LEMAY,  
Director

SEAL  
Published in the Artesia Daily Press, Artesia, N.M. November 8, 1989.

Legal 12962

## LEGAL NOTICE

STATE OF NEW MEXICO  
ENERGY, MINERALS AND  
NATURAL RESOURCES  
DEPARTMENT  
OIL CONSERVATION  
DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal



**STATE OF NEW MEXICO**

**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

**OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

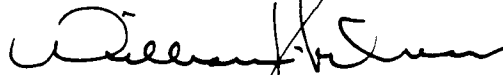
(GW-22) Amoco Production Company, James F. Trickett, Regional Environmental Safety and Regulatory Affairs Manager, P. O. Box 3092, Houston, Texas 77253, has submitted an application for renewal of its previously approved discharge plan for its Empire Abo Gasoline Plant located in the SE/4, Section 3, Township 18 South, Range 37 East, NMPM, Eddy County, New Mexico. Approximately 17,500 gallons per day of process waste water is disposed of in a double lined evaporation pond with leak detection or stored in above grade steel tanks for disposal at an OCD approved offsite disposal. Waste water has a total dissolved solids (TDS) concentration of approximately 11000 mg/l. Ground water most likely to be affected by any discharge to the surface is at a depth of approximately 50 feet with a total dissolved solids concentrations of approximately 300 mg/l. The discharge plan addresses how spills, leaks or other discharges to the ground will be handled.

(GW-19) Arrow Gas Company, Robert L. Guest, Vice President and General Manager, P. O. Box 1771, Roswell, New Mexico 88201, has submitted an application for renewal of its previously approved discharge plan for its Loco Hills brine discharge facility located in the NW/4 SE/4, Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Arrow Gas Company proposes continuation of brine discharge to an existing 2.44 million gallon plastic-lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the domes when propane extraction is desired. The ground water most likely to be affected by any discharges at the surface is at a depth of 75 feet with a concentration in excess of 10,000 mg/l total dissolved solids. The discharge plan addresses how spills, leaks and other discharges to the ground will be handled.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest. If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 31st day of October, 1989. To be published on or before November 10, 1989.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY, Director

S E A L



OIL CONSERVATION DIVISION  
RECEIVED

GAS COMPANY '89 OCT 27 AM 9 48

P. O. BOX 1777

111 N. Atkinson

ROSWELL, NEW MEXICO 88201

505 622-8031

October 26, 1989

RETURN RECEIPT REQUESTED

Mr. David G. Boyer  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Re: Discharge Plan (GW-19)  
Arrow Gas Company Loco Hills Facility  
Eddy County, New Mexico

Dear Mr. Boyer:

We are enclosing herewith the application for renewal of ground water discharge plan, GW-19, for the Arrow Gas Company Loco Hills Facility as requested by your letter of August 7, 1989. It is our understanding that the plan approved in February 1985 expires in February, 1990, and that our renewal application is now due.

Should there be any questions concerning our operation at this facility or other data required, please let me know.

Yours very truly,

Robert L. Guest  
Vice President and General Manager

RLG:ks

Enclosures

ARROW GAS COMPANY  
GROUND WATER DISCHARGE PLAN  
LOCO HILLS UNDERGROUND PROPANE STORAGE  
EDDY COUNTY, NEW MEXICO

GENERAL INFORMATION

Name of Discharger: Arrow Gas Company  
P.O. Box 1777  
111 North Atkinson  
Roswell, New Mexico 88201  
  
505/622-8031  
  
R. L. Guest  
Vice President and General Manager

Contact Person: R. L. Guest  
Address above  
505/622-8031  
or  
Don Blackard  
1400 East Second Street  
Roswell, New Mexico 88201  
505/622-8750

Location of Discharge: NW $\frac{1}{4}$  SW $\frac{1}{4}$  Section 22,  
Township 17 South, Range 29 East,  
NMPM, Eddy County, New Mexico

Type of Operation: Arrow Gas Company proposes to continue a brine  
discharge operation to an existing 2.44 million  
gallon plastic-lined storage pond. The brine  
discharge is the result of propane and butane  
injection to three separate salt dome caverns.

DESCRIPTION AND LOCATION OF PROPERTY

Arrow Gas Company operates three underground storage wells (caverns) situated on 40.00 acres of land described as a tract of land included in NW $\frac{1}{4}$  SW $\frac{1}{4}$  of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. A drawing showing approximate property boundaries and indicating location of the following pertinent structures, wells, etc. is enclosed:

- a. Location of propane storage wells
- b. Location of salt water wells used as water supply source for removing propane.
- c. Location of double-lined earthen reservoir used to contain brine water removed from propane storage wells when injecting propane.

All personalty located on the premises described above is owned by Arrow Gas Company. Premises are leased thru the New Mexico State Land Office under a five year lease agreement (BL-635) currently expiring on November 10, 1990.

#### DISCHARGE DESCRIPTION AND PLAN

Arrow Gas Company, in utilizing the three underground propane storage wells, periodically injects propane ( $C_3H_8$ ) and normal butane ( $C_4H_{10}$ ) into the three salt dome caverns. Water forced out (discharge) is pumped into one above ground earthen reservoir built in September, 1983 to State of New Mexico Oil Conservation Division specifications complete with required leak detection system.

The brine storage reservoir is approximately 335' by 180' by 377' by 190'. Capacity of the reservoir is approximately 2.44 million gallons and was designed to more than equal two times the estimated gallonage injection over the main usage period, reduced by the average evaporation based upon evaporation curves for the area. Also enclosed is a specification list showing construction notes and materials.

The brine water discharged into the reservoir during propane injection is totally saturated with chloride salts. Total gallons of discharge per year will vary between two to four million gallons. The rate of flow is between 180 and 200 gallons per minute. Generally all discharge is during the months of May through October.

Water supply for injection into propane storage wells to facilitate propane withdrawal into a series of pressurized above ground vessels is secured from the brine storage pond, and from three separate water wells. Although the water from the water wells contain less chlorides than the discharge water, all three wells are extremely salty. The Water Resource Division of the Natural Resources Department of the State of New Mexico tested the water from these wells for us. Previous test results show a chloride content of 60,680 parts per million which is greatly in excess of ground water contaminant levels the regulations are seeking to protect.

These wells are 150 feet deep with water level currently at 75 feet. These wells, with chloride content shown above, are the most likely concentration of ground water to be contaminated by our propane well discharges. Location of water wells in relations to propane storage wells, and earthen reservoirs is also indicated on the attached drawing.

Flooding potential of the site including the earthen reservoir is deemed highly unlikely and remote. A terrain map showing the elevation changes for all of Section 22 is included also. The general location of our property is indicated in red.

Water from water wells, as well as discharge water from propane wells is readily available for testing, sampling, and monitoring at the operation site. To our knowledge, there are no natural bodies of water, or live water courses within one mile of the discharge site. At the request of

the Oil Conservation Division at the time we submitted our Discharge Plan in 1985, samples of the discharge water were obtained and tested by Albuchemist, Inc. in Albuquerque. We were also required to test water from a windmill approximately three-quarters of a mile to the north. Copies of the results of these samples are again enclosed. We know of no reason why the discharge water would test materially different at this time since operational activities have been same for many years.

#### ADDITIONAL EFFLUENT DISCHARGE

The only other discharge described in the regulations at this site is effluent discharged from a sewage system into a septic tank and leach field. The effluent is considerably below 2,000 gallons per day and is exempt from discharge plan requirements under Section 3-105 Part B.

#### SPILL/LEAK PREVENTION AND HOUSEKEEPING PROCEDURES

During periods of normal or high activity at this storage location we have a loader-custodian on duty throughout the day. Daily responsibilities under these conditions require the loader-custodian to daily check the leak detection sumps and to log this into a register showing date and hour checked. A visual inspection of the pond and liner together with all piping is performed at least weekly and daily during high activity periods. All piping except well water is above ground and the loader-custodian has many opportunities during the course of daily tasks to observe for signs of any piping leaks, wet spots, etc. such as might occur should a leak happen in the well water piping system. Our main contingency plan should a leak develop is to proceed as follows:

- a) Locate the apparent source of the leak by visual and physical inspection, such as identifying soft spots under the liner, etc.
- b) Upon identification of the leak locations we would bring the brine water level in the pond down below the point of the leak by means of using the brine to inject into the storage caverns and withdraw propane. If our normal operations would not permit us to do this by using pond water and shutting down our wells within a short period of time, then we would petition the State Land Commissioner for permission to sell brine water to oil field operators to further reduce pond level.
- c) Once source of leak is exposed above water level, repair would be accomplished and water from wells introduced to again bring water level to a point to test well repair. If satisfactory, then normal well and discharge pond operations would resume.

During periods of low or no activity at the Loco Hills Storage Facility we arrange to have employees check the facility weekly or more frequently. Such checks include visual inspection of the pond and all piping areas, and a check of the leak detections sumps with a corresponding entry into the log register.

Employees, of course, are instructed to advise operating management immediately of any problem, leak, or unusual circumstance at this location. Supervising employees are aware of the requirement to notify the Oil Conservation Division of any discharge spillage, and the Vice President-General Manager of Arrow Gas Company would undertake the responsibility of making appropriate notifications.

There are no auxiliary activities conducted at this location such as truck washing, or water cleaning which would separately create a situation requiring curbing or other drainage disposition.

At the present time we have not experienced any need to make any type of off-site disposal of produced waters except to sell or give brine water to oil field operators as indicated above during unusual high water levels in storage pond. Should any other off-site disposition of water or other substance be required we would not proceed until clearing the disposal method with the Oil Conservation Division.

The only other statement we feel important to make is to reaffirm that nothing has changed in our basic operations during the past five years nor none anticipated in the coming five year period. Only the level of activity changes from time to time as business conditions change.

I hereby certify that I am familiar with the information contained in and submitted with the application and that such information is true, accurate and complete to the best of my knowledge.

Robert L. Guest  
Signature

October 26, 1989  
Date

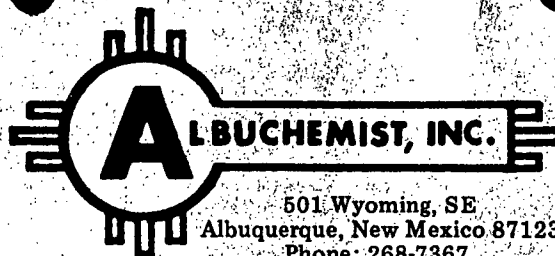
ROBERT L. GUEST  
Printed Name of Person Signing

VICE PRESIDENT / GENERAL MANAGER  
Title

### CONSTRUCTION NOTES & MATERIALS

1. All subgrade and berm embankment fill shall be compacted to a minimum of 90% maximum density (modified Proctor).
2. CPE Liner shall be 30 mil. CP-UR Flexseal Chlorinated Polyethylene Lining Material by B. F. Goodrich, or approved equal from berm to berm; and 30 mil. CP6 Flexseal Reinforced Chlorinated Polyethylene Lining Material by B. F. Goodrich, or approved equal on slopes and tops of berms.
3. Fabric Underlay shall be 55 mil. SUPAC-N Nonwoven Geotextile 5NP by Phillips Fibers Corporation, or approved equal.
4. Separation Fabric shall be 55 mil. SUPAC-N Nonwoven Geotextile 5NP by Phillips Fibers Corporation, or approved equal.
5. PVC Underliner shall be 20 mil. PVC Flexseal Polyvinyl Chloride Lining Material by B. F. Goodrich, or approved equal.
6. Gravel shall be  $\frac{1}{2}$ " to 1" washed gravel containing no crushed rock.
7. PVC Pipe - 4" PVC, SDR 41, perforated with  $\frac{5}{8}$ "  $\emptyset$  holes in upper half of pipe on 2' staggered spacing ea. side: 4" PVC, SDR 26, solid drain line, solvent weld all joints.
8. Sump - Manufactured fiberglass well with fitted lid and sealed bottom, (min.)  $\frac{1}{4}$ " wall thickness, 24" O.D. x 9'-0".
9. Anchor & Tie Down - Liners and tie down tubes to be placed in anchor trench, back filled and compacted to specs.
10. Seams - Use bodied adhesive for CPER liner. Solvent weld PVC underliner, see details.
11. Inlet and Outlet Pipe shall be 3", SDR 17, Yellowmine PVC Pipe with CertaLok Joints by Certainteed Corporation, or approved equal.





501 Wyoming, SE  
Albuquerque, New Mexico 87123  
Phone: 268-7367

ARROW GAS CO.

FEB 7 1985

RECEIVED ACCT. DEPT.

DATE: February 5, 1985

LAB. NO. 10785-5

FOR: Arrow Gas Company  
Attention: Don Blackard  
P. O. Box 1777

Roswell, NM 88201

SAMPLE: 2 water samples

DATE DELIVERED:

Underground Water

Windmill Water

RESULTS:

Chromium .....	<0.05 mg/l	<0.05 mg/l
Cadmium .....	0.28 mg/l	<0.01 mg/l
Silver .....	0.07 mg/l	<.05 mg/l
Barium .....	<1.0 mg/l	<1.0 mg/l
Selenium .....	<.012 mg/l	<.01 mg/l
Arsenic .....	<.01 mg/l	<.01 mg/l
Mercury .....	.0027 mg/l	<.001 mg/l
Lead .....	<0.05 mg/l	<0.05 mg/l
Fluoride .....	4.77 mg/l	1.14 mg/l
Nitrate (as N) .....	0.43 mg/l	0.73 mg/l
Benzene .....	.015 mg/l	.012 mg/l
Toluene .....	.014 mg/l	.017 mg/l
Cyanide .....	<0.05 mg/l	<0.05 mg/l

BY:

Chemist

*Sam Sizon*



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

August 7, 1989

ARROW GAS COMPANY  
P. O. Box 1777  
Roswell, New Mexico 88201

ATTENTION: Mr. R. L. Guest

RE: Discharge Plan (GW-19)  
Arrow Gas Co. Loco Hills Facility  
Eddy County, New Mexico

Dear Mr. Guest:

On February 27, 1985, the ground water discharge plan, GW-19, for the Arrow Gas Company's Loco Hills Facility located in Eddy County was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission Regulations and it was approved for a period of five years. The approval will expire on February 27, 1990.

If your facility continues to have effluent or leachate discharges and you wish to continue discharging, please submit your application for renewal of plan approval 120 days prior to expiration of the plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can often extend for several months. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, include an application for plan amendment with your application for renewal. To assist you in preparation of your renewal application, I have enclosed a copy of the OCD's guidelines for preparation of ground water discharge plans at natural gas processing plants. These guidelines will be used in review of your renewal application.

The disposal of all solid wastes generated at your facility will be addressed in your discharge plan renewal. The guidelines are being revised to include the solid waste provisions as enacted by the New Mexico Legislature in the 1989 Legislative session.

If you no longer have discharges and discharge plan renewal is not needed, please notify this office.

If you have any questions, please do not hesitate to contact Roger Anderson at (505) 827-5884.

Sincerely,

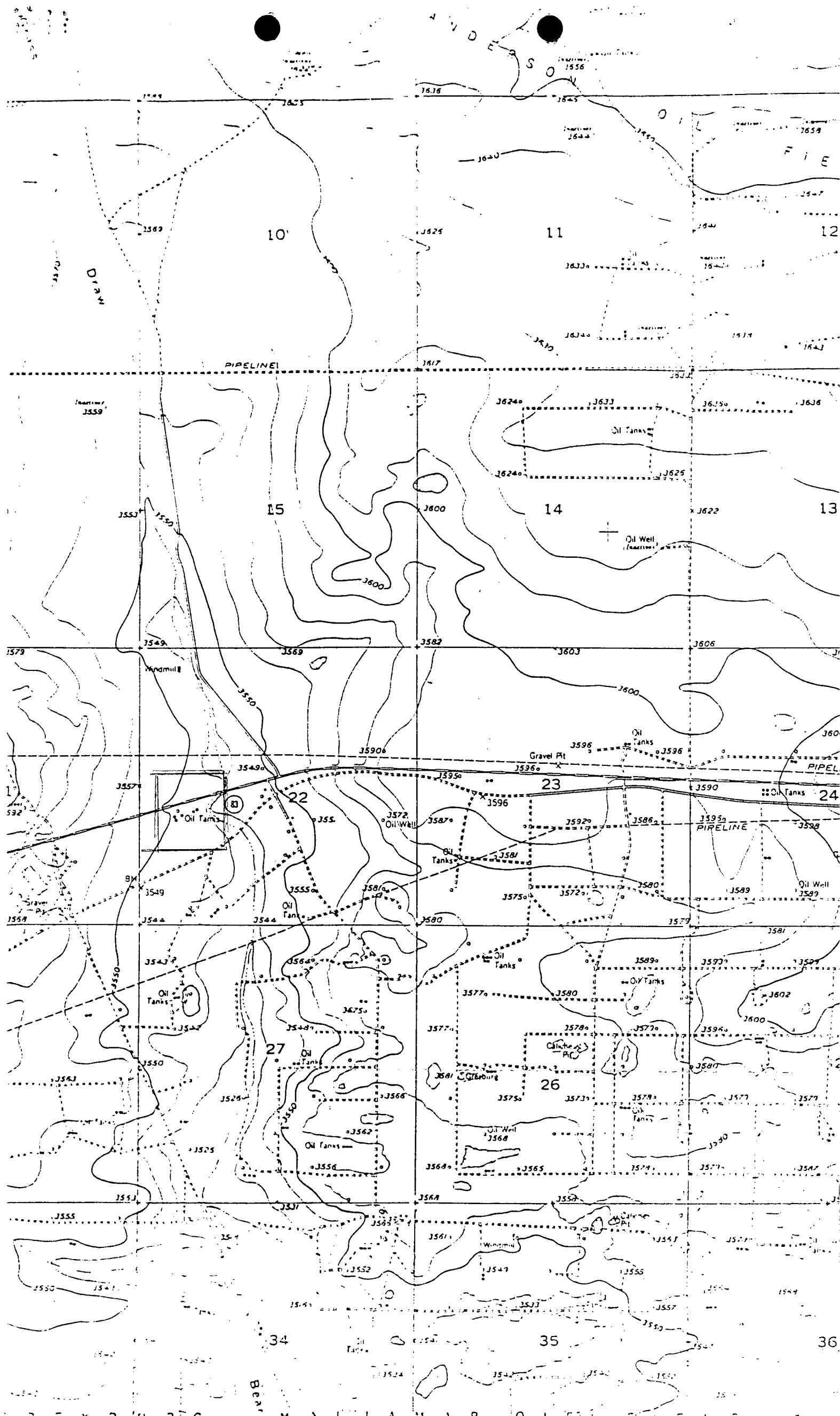
A handwritten signature in cursive script, appearing to read "David G. Boyer".

David G. Boyer, Hydrogeologist  
Environmental Bureau Chief

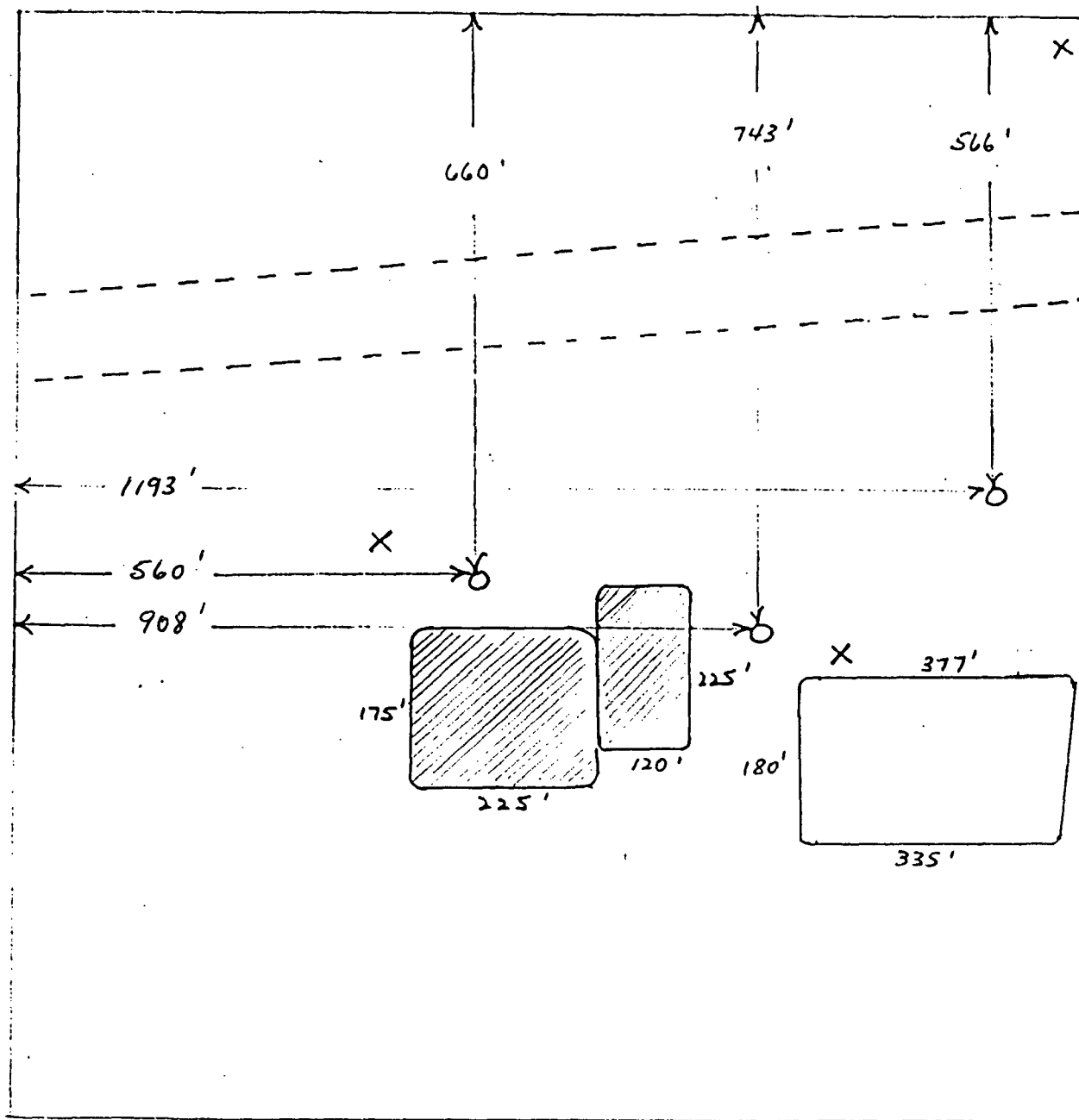
DGB:RCA:sl



Enclosure

cc: OCD Artesia Office



1" equals approx. 200'



- - - - U.S. 82 Highway Right of Way  
 X Water Wells  
 O Propane Storage Wells  
 Abandoned and filled-in former brine storage pond  
 New brine storage pond

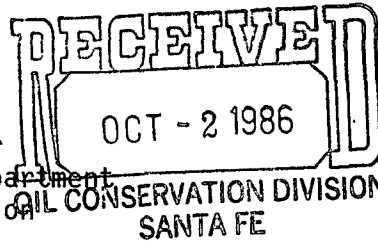


**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102

Manufacturing Department

September 29, 1986



R. L. Stamets, Director  
Energy and Minerals Department  
Oil Conservation Division  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico

Attention: David G. Boyer  
Hydrogeologist

Gentlemen:


Re: Warren Petroleum Company  
Division of Chevron U.S.A. Inc.  
Eunice (GW-5), Monument (GW-25), Saunders (GW-26)  
Vada (GW-27) Gas Processing Plants  
Lea County, New Mexico

Attached is material which we have added to the subject discharge plans. This information consists of a waste management plan for all of the facilities and a description of the emergency pit for our Saunders Plant

If you find that you have any questions or need additional information, please call Linda Johnson or me at (918) 560-4138.

Very truly yours,

WARREN PETROLEUM COMPANY

  
L. T. Reed  
Lead Engineer

LTR/LLJ/ar  
Attachment

## WASTE MANAGEMENT PLAN

EUNICE GAS PROCESSING PLANT

This Waste Management Plan has been developed to meet Corporate and Governmental requirements concerning disposal of various operating materials at the end of its useful life.

At the present time, the EUNICE Plant does not generate any RCRA hazardous wastes. If or when it should be determined a hazardous waste exists, it will be disposed of according to RCRA standards with documentation and proper manifests in an approved hazardous waste disposal site. Formal contracts will be negotiated and disposal site inspections will be performed.

8-21-86

1. The following list shows the types, expected amounts, and source of wastes which are generated at the EUNICE facility:

<u>ITEM</u>	<u>TYPE</u>	<u>EXPECTED AMOUNT</u>	<u>SOURCE</u>
Filters	Amine, Dust, Oil, Product	650 cartridges/yr	Amine filter case Engine oil filter cases
Cooling Tower Blowdown	Water	4,200,000 gals/yr	Cooling tower
Boiler Blowdown	Water	4,200,000 gals/yr	Boiler
Plant Trash	Paper, wood, cardboard, household items,	936 yds/yr	Office, shop, Plant trash
Cooling Tower Basin Sludge		10 yds/ 5 yrs	Cooling tower
Tank bottoms	NONE		
Solvent		1,000 gals/yr	Chevron
Steel Drums	Oil, boiler & cooling tower chemicals	52/yr	Oil, boiler & cooling tower chemicals
Concrete	Abandoned in Place-buried		
Molecular Sieve, Activated Alumina, Sulfur Plant Catalyst, Ion Exchange Resin, etc.	Dehydrators, Water treaters	38,000 lbs/6 yrs 200 ft <sup>3</sup> /5 yrs	Gas dehydrators Zeolite beds



<u>ITEM</u>	<u>TYPE</u>	<u>EXPECTED AMOUNT</u>	<u>SOURCE</u>
Caustic	NONE		
Amine	MEA	6000 gals/yr	MEA contactor
Glycol	NONE		
Hydrogen Sulfide		29,036 mcf/yr	Green gas
Wash Water		4,020,000 gals/yr	Field, process office
Produced Water from Compression		75,000 gals/yr	Inlet green gas
Brine Water	Saturated	105,000 gals/yr	Zeolite beds
Amine Reclaimer Bottoms		1,100 ft <sup>3</sup> /yr	MEA reclaimer
Hydrostatic Test H <sub>2</sub> O	NONE		
Iron Sponge	NONE		
Sump or Pit Sludge	NONE		
Used Oil	Engine	60,000 gals/yr	Engines

- 1a. If asbestos or PCB's are encountered, they will be tagged and when necessary disposed of according to approved methods.
2. For the listed wastes, operating procedures are followed to minimize the amounts generated; such as steel drums are exchanged with the vendor, molecular sieve is regenerated if practical, etc.
3. All wastes listed in No. 1 have been properly classified as hazardous or non-hazardous. If a waste cannot be positively identified as hazardous or non-hazardous, then the Warren Petroleum Environmental Affairs Department will be contacted to recommend an outside company to do testing and analysis.
4. The necessary safety precautions for handling each waste listed in No. 1 above should be taken to avoid adverse health affects. The Safety Department and Environmental Department are contacted when specific precautions are needed. Reference to the Material Safety Data Sheets (MSDS) is made concerning proper handling of all products.
5. Potential for waste recycling is considered when the use of wastes is feasible in alternative processes, such as re-injecting water into a producing formation for enhanced oil recovery.
6. Following is the proper disposal methods in use for each of the waste items listed in No. 1:
  - Filter - Waste Control of Hobbs
  - Cooling Tower Blowdown - Disposal Well on site
  - Boiler Blowdown - Disposal Well on site
  - Plant Trash - Waste Control of Hobbs
  - Steel Drums - Hobbs Iron and Metal/Vendors
  - Sieve, alumina, resin - Land farm within plant boundaries
  - Amine - Disposal well on site
  - Wash Water - Disposal well on site
  - Brine Water - Disposal well on site
  - Produced Water from compression - Disposal well on site

6. cont'd. ....proper disposal methods in use for each of the waste items listed in No. 1:

Amine Reclaimer Bottoms - Disposal well on site since it does not contain vanadium nor is it considered hazardous.

Used Oil - Slop oil tank

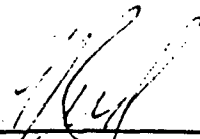
Solvent - Slop oil tank

Hydrogen Sulfide - Burned completely to  $SO_2$

7. Anything pertaining to the plant that is specific and not covered above.

Nothing at this time.

  
\_\_\_\_\_  
Plant Manager Approval

  
\_\_\_\_\_  
Environmental Department Approval



1935 - 1985

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800



TONY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

May 9, 1986

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

L. T. Reed, Director  
Environmental Affairs  
Manufacturing Department  
Warren Petroleum Co.  
P. O. Box 1589  
Tulsa, Oklahoma 74102

RE: DISCHARGE PLAN GW-5  
WARREN PETROLEUM CO.  
EUNICE GAS PROCESSING PLANT

Dear Ms. Reed:

The ground water discharge plan renewal (GW-5) for the Warren Petroleum Eunice Gas Processing Plant located in the NE/4 of Section 3, Township 22 South, Range 37 East (NMPM), Lea County, New Mexico, is hereby approved. The original discharge plan was approved on May 16, 1981 and expires May 16, 1986. The renewal application consists of the plans dated October 23, 1980 and April 8, 1981, and supplements dated July 8, 1983, April 26, 1984, and March 12, 1986.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations. It is renewed pursuant to Section 3-109.F.; which provides for the possible future amendments of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

There will be no routine monitoring or reporting requirements.

Please note that Section 3-104 of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C., you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3-109.G.4., this plan approval is for a period of five (5) years. This approval will expire May 16, 1991, and you should submit an

application for renewal in ample time before that date. Testing of all underground pipes will be required before renewal of a discharge plan will be considered.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

*R. L. Stamets*

R. L. STAMETS  
Director

RLS:RCA:dp

cc: OCD, Hobbs  
R. O. Leinweber, Warren Petroleum, Eunice

**SENDER: Complete items 1, 2, 3 and 4.**  
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) requested.  
☐ Insured ☐ Registered ☐ Certified ☐ Express Mail  
Show to whom, date and address of delivery.  
☐ Restricted Delivery.

3. Article Addressed to:  
L. T. Reed, Director  
Environmental Affairs  
Manufacturing Department  
Warren Petroleum Co.  
P. O. Box 1589  
Tulsa, Oklahoma 74102

4. Type of Service:  
☐ Registered ☐ Insured  
☐ Certified ☐ COD  
☐ Express Mail

Article Number  
P 612 458-239

Always obtain signature of addressee or agent and  
**DATE DELIVERED**

5. Signature - Addressee  
*[Signature]*

6. Date of Delivery  
MAY 19 1988

7. Addressee's Address (ONLY if requested and fee paid)

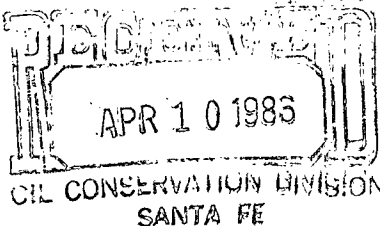
DOMESTIC RETURN RECEIPT



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1197, Eunice, NM 88231

Manufacturing Department



April 8, 1986

Mr. David Boyer  
Environmental Bureau Chief  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Boyer:

RE: Discharge Plan GWR-5  
Eunice Gas Processing Plant

Please find attached the analysis from Jordan Laboratories, Inc. which completes the analysis of the Eunice Plant wastewater for our discharge plan.

If you have any further questions, please feel free to contact us.

Sincerely yours,

*R O Leinweber*

R. O. Leinweber  
Plant Manager

ROL:kd

attachment

cc: L. L. Johnson

R. C. Anderson

JORDAN LABORATORIES, INC.  
CHEMISTS AND ENGINEERS  
CORPUS CHRISTI, TEXAS  
APRIL 3, 1986

WARREN PETROLEUM COMPANY  
P.O. BOX 1197  
EUNICE, NEW MEXICO 88231

ROUTE		INITIALS
	P.L. MANAGER	
	P. SUPERVISOR	
	M. SUPERVISOR	
	J. SUPERVISOR	
	P. L. MANAGER	
	C. ANALYST	
	SR. CLERK	

## REPORT OF ANALYSIS

IDENTIFICATION: EUNICE PLANT WASTEWATER

	MG/L
NITRATE NITROGEN -----	0.05
FLUORIDE -----	3.4
PHENOLS -----	0.82
CYANIDE -----	0.04
ARSENIC -----	0.106
CADMIUM -----	0.0016
MERCURY -----	0.0042
SELENIUM -----	0.006
BENZENE -----	1.4
TOLUENE -----	2.2
ETHYL BENZENE -----	0.35
PARA, ORTHO & META-XYLENE -----	1.4

LAB. NO. M24-1261

RESPECTFULLY SUBMITTED,



CARL F. CROWNOVER

4-7-86

JORDAN LABORATORIES, INC.  
CHEMISTS AND ENGINEERS  
CORPUS CHRISTI, TEXAS  
APRIL 3, 1986

WARREN PETROLEUM COMPANY  
P.O. BOX 1197  
EUNICE, NEW MEXICO 88231

## REPORT OF ANALYSIS

IDENTIFICATION: EUNICE PLANT WASTEWATER

	MG/L
NITRATE NITROGEN -----	0.05
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ETHYL BENZENE -----	0.35
PARA, ORTHO & META-XYLENE -----	1.4

LAB. NO. M24-1261

RESPECTFULLY SUBMITTED,

CARL F. CROWNOVER





New Mexico Health and Environment Department  
SCIENTIFIC LABORATORY DIVISION  
700 Camino de Salud NE  
Albuquerque, NM 87106 — (505) 841-2555

PN

# HEAVY METAL ANALYSIS

## GENERAL WATER CHEMISTRY AND NITROGEN ANALYSIS

DATE RECEIVED	5/7/86	LAB NO.	HM 920	USER CODE	<input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE	4/3/86	SITE INFORMATION	Sample location		
Collection TIME	1125		Warren Petroleum - Eunice		
Collected by — Person/Agency		Collection site description			
Boyer/ANDERSON /OCD		Cooling tower inlet			

SEND  
FINAL  
REPORT  
TO

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg, PO Box 2088  
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

### SAMPLING CONDITIONS

<input type="checkbox"/> Bailed <input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Pump <input type="checkbox"/> Tap	Water level	Discharge	Sample type
pH (00400)		Conductivity (Uncorrected)	Water Temp. (00010)	Conductivity at 25°C (00094)
6.5		1775 $\mu$ mho	19.5 °C	Grab
Field comments				

### SAMPLE FIELD TREATMENT — Check proper boxes

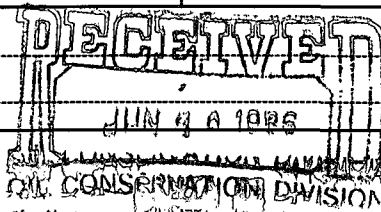
No. of samples submitted	1	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 $\mu$ m membrane filter	<input type="checkbox"/> A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
<input type="checkbox"/> NA: No acid added		<input type="checkbox"/> Other-specify:		<input type="checkbox"/> A: 5ml conc. HNO <sub>3</sub> added
				<input checked="" type="checkbox"/> A: 4ml fuming HNO <sub>3</sub> added

### ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed	F, NA	Units	Date analyzed
<input type="checkbox"/> Conductivity (Corrected) 25°C (00095)	$\mu$ mho		<input type="checkbox"/> Calcium (00915)	mg/l	
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)	mg/l		<input type="checkbox"/> Magnesium (00925)	mg/l	
<input checked="" type="checkbox"/> Other: ECAP			<input type="checkbox"/> Sodium (00930)	mg/l	
<input checked="" type="checkbox"/> Other: AS			<input type="checkbox"/> Potassium (00935)	mg/l	
<input checked="" type="checkbox"/> Other: Hg			<input type="checkbox"/> Bicarbonate (00440)	mg/l	
			<input type="checkbox"/> Chloride (00940)	mg/l	
			<input type="checkbox"/> Sulfate (00945)	mg/l	
			<input type="checkbox"/> Total filterable residue (dissolved) (70300)	mg/l	
			<input type="checkbox"/> Other:		
NF, A-H <sub>2</sub> SO <sub>4</sub>			F, A-H <sub>2</sub> SO <sub>4</sub>		
<input type="checkbox"/> Nitrate-N <sup>+</sup> , Nitrate-N total (00630)	mg/l		<input type="checkbox"/> Nitrate-N <sup>+</sup> , Nitrate-N dissolved (00631)	mg/l	
<input type="checkbox"/> Ammonia-N total (00610)	mg/l		<input type="checkbox"/> Ammonia-N dissolved (00608)	mg/l	
<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l		<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l	
<input type="checkbox"/> Chemical oxygen demand (00340)	mg/l		<input type="checkbox"/> Other:		
<input type="checkbox"/> Total organic carbon ( )	mg/l				
<input type="checkbox"/> Other:					
<input type="checkbox"/> Other:					

Laboratory remarks

SLD 726 (12/84)



Lab Number: HM 920

Date Submitted: 5/7/86

By: Boyer

Sample Code: Warren Petroleum

Date Analyzed: 5/15/86

Reviewed By: Jim Ashby

Date Reported: 6/13/86

<u>Element</u>	<u>ICAP VALUE (MG/L)</u>	<u>AA VALUE (MG/L)</u>
Aluminum	<u>&lt;0.1</u>	<u>          </u>
Barium	<u>&lt;0.1</u>	<u>          </u>
Beryllium	<u>&lt;0.1</u>	<u>          </u>
Boron	<u>0.4</u>	<u>          </u>
Cadmium	<u>&lt;0.1</u>	<u>          </u>
Calcium	<u>140.</u>	<u>          </u>
Chromium	<u>&lt;0.1</u>	<u>          </u>
Cobalt	<u>&lt;0.1</u>	<u>          </u>
Copper	<u>&lt;0.1</u>	<u>          </u>
Iron	<u>&lt;0.1</u>	<u>          </u>
Lead	<u>&lt;0.1</u>	<u>          </u>
Magnesium	<u>69.</u>	<u>          </u>
Manganese	<u>&lt;0.05</u>	<u>          </u>
Molybdenum	<u>&lt;0.1</u>	<u>          </u>
Nickel	<u>&lt;0.1</u>	<u>          </u>
Silicon	<u>34.</u>	<u>          </u>
Silver	<u>&lt;0.1</u>	<u>          </u>
Strontium	<u>3.2</u>	<u>          </u>
Tin	<u>&lt;0.1</u>	<u>          </u>
Vanadium	<u>&lt;0.1</u>	<u>          </u>
Zinc	<u>&lt;0.1</u>	<u>          </u>
Arsenic		<u>0.010</u>
Selenium		<u>          </u>
Mercury		<u>&lt;0.0005</u>



New Mexico Health and Environment Department  
SCIENTIFIC LABORATORY DIVISION  
700 Camino de Salud NE  
Albuquerque, NM 87106 — (505) 841-2555

850

3

GENERAL WATER CHEMISTRY  
and NITROGEN ANALYSIS

DATE RECEIVED	5/7/86	LAB NO.	WC1977	USER CODE	<input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE	4/3/86	SITE INFORMATION	Sample location		
Collection TIME	1125		Warren Petroleum - Eunice		
Collected by — Person/Agency		Collection site description			
BOYER/ANDERSON /OCD		Cooling tower inlet			

SEND  
FINAL  
REPORT  
TO

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg, PO Box 2088  
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

SAMPLING CONDITIONS

<input type="checkbox"/> Bailed <input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Pump <input type="checkbox"/> Tap	Water level	Discharge	Sample type
				Grab
pH (00400)	6.5	Conductivity (Uncorrected)	1775 $\mu$ mho	Water Temp. (00010)
				19.5 °C
				Conductivity at 25°C (00094)
				$\mu$ mho
Field comments				

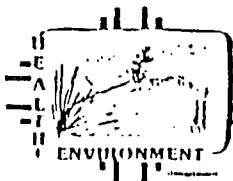
SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted	1	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 $\mu$ m membrane filter	<input type="checkbox"/> A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
<input checked="" type="checkbox"/> NA: No acid added		<input type="checkbox"/> Other-specify:	<input type="checkbox"/> A: 5ml conc. HNO <sub>3</sub> added	<input type="checkbox"/> A: 4ml fuming HNO <sub>3</sub> added

ANALYTICAL RESULTS from SAMPLES

NF, NA	Units	Date analyzed	F, NA	Units	Date analyzed
<input type="checkbox"/> Conductivity (Corrected) 25°C (00095)	$\mu$ mho		<input checked="" type="checkbox"/> Calcium (00915)	148.8 mg/l	5-23
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)	mg/l		<input checked="" type="checkbox"/> Magnesium (00925)	50.75 mg/l	"
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Sodium (00930)	213.9 mg/l	"
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Potassium (00935)	7.41 mg/l	"
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Bicarbonate (00440)	317 mg/l	5/28
			<input checked="" type="checkbox"/> Chloride (00940)	414 mg/l	5/13
			<input checked="" type="checkbox"/> Sulfate (00945)	284 mg/l	5/21
			<input checked="" type="checkbox"/> Total filterable residue (dissolved) (70300)	1415 ma/l	5/28
			<input checked="" type="checkbox"/> Other: CO <sub>2</sub>	0	5/8
NF, A-H <sub>2</sub> SO <sub>4</sub>			F, A-H <sub>2</sub> SO <sub>4</sub>		
<input type="checkbox"/> Nitrate-N <sup>+</sup> , Nitrate-N total (00630)	mg/l		<input type="checkbox"/> Nitrate-N <sup>+</sup> , Nitrate-N dissolved (00631)	mg/l	
<input type="checkbox"/> Ammonia-N total (00610)	mg/l		<input type="checkbox"/> Ammonia-N dissolved (00608)	mg/l	
<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l		<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l	
<input type="checkbox"/> Chemical oxygen demand (00340)	mg/l		<input type="checkbox"/> Other:		
<input type="checkbox"/> Total organic carbon ( )	mg/l				
<input type="checkbox"/> Other:					
<input type="checkbox"/> Other:					
Laboratory remarks			Analyst	Date Reported	Reviewed by
				6/4/86	CS

an



86-0529-C

## SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE  
Albuquerque, NM 87106 841-2570

AUG - 8 1986

REPORT TO: DAVID G. BOYER  
PLEASE PRINT NEW MEXICO OIL CONSERVATION DIV.  
P.O. BOX 2088  
SANTA FE, NM 87504-2088S.L.D. No.: OR-  
DATE REC.:  
SLD PRIORITY #:

PHONE(S): 827-5812

USER CODE: 8 2 2 3 5

SUBMITTER: Dave Boyer

SUBMITTER CODE: | | | | |

SAMPLE TYPE: WATER ☒, SOIL ☐, OTHER

SAMPLE TYPE CODE: | | |

COLLECTED: 4/3/86-11:25 BY D.B.  
DATE TIME INITIALSCODE: 8 6 0 4 0 3 1 1 1 2 5 D B  
Y Y M M D D H H M M I I I

SOURCE: Warren Petroleum - Eunice

CODE: | | | | |  
AQUIFER DEPTH

NEAREST CITY: Eunice

CODE: | | | | |

LOCATION: Cooling tower inlet

CODE: | | | | |  
TOWNSHIP RANGE SECTION TRACTS

pH= 6.5; Conductivity= 1775 umho/cm at 19.5 °C; Chlorine Residual=

Dissolved Oxygen= mg/l; Alkalinity=; Flow Rate=

Sampling Location, Methods and Remarks (i.e. odors, etc.)

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. *Roger C. Anderson*Method of shipment to the Laboratory *Hand carried*This form accompanies 2 Septum Vials, Glass Jugs,  
Containers are marked as follows to indicate preservation:

- ☐
- NP: No preservation; sample stored at room temperature.
- 
- ☒
- P-Ice Sample stored in an ice bath (not frozen).
- 
- ☐
- P-Na
- <sub>2</sub>
- S
- <sub>2</sub>
- O
- <sub>3</sub>
- ; Sample preserved with Na
- <sub>2</sub>
- S
- <sub>2</sub>
- O
- <sub>3</sub>
- to remove chlorine residual.

I (we) certify that this sample was transferred from  
to at (location) on/ / - : and that the statements in this block are correct.  
DATE AND TIMEEvidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures

(we) certify that this sample was transferred from  
to at (location) on/ / - : and that the statements in this block are correct.  
DATE AND TIMEEvidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures

LAB. No.: ORG- 529

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
X	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
X	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS :

## ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
Aromatic Purgeables	None Detected		
Halogenated Purgeable	None Detected		
		* DETECTION LIMIT	

REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes NO / . Seal(s) broken by: date:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample. /

Date(s) of analysis: 5/8/86. Analyst's signature: R Meyer

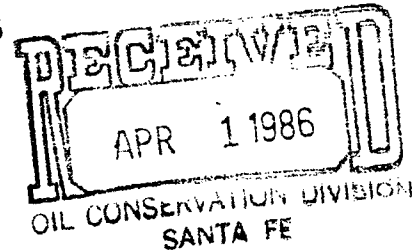
I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature:



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE**

Field Supervisor  
Ecological Services, USFWS  
Post Office Box 4487  
Albuquerque, New Mexico 87196

March 31, 1986



Mr. R. L. Stamets, Director  
Oil Conservation Division  
State of New Mexico  
State Land Office Building  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Dear Mr. Stamets:

This letter responds to the public notice dated March 31, 1986 for proposed discharge plans submitted to your division. We have reviewed the following plans and have not identified any resource issues of concern to our agency. Renewal of these plans should not have a significant impact upon plants, fish, shellfish or wildlife resources of New Mexico.

- (GW-2) Phillips 66 Natural Gas Co. Buckeye Plant, Lea County, New Mexico
- (GW-3) Texaco Producing Inc. Eunice No. 1, Lea County, New Mexico
- (GW-4) Texaco Producing Inc. Eunice No. 2, Lea County, New Mexico
- (GW-5) Warren Petroleum Company, Eunice Gas Processing Plant, Lea County, New Mexico
- (GW-32) Giant Refinery Company; Ciniza Refinery, Gallup, McKinley County, New Mexico

These comments represent the views of the Fish and Wildlife Service. Thank you for the opportunity to review and comment on the proposed plans. If you have any questions concerning our comments please contact Tom O'Brien at (505) 766-3966 or FTS 474-3966.

Sincerely yours,

John C. Peterson  
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico  
Director, New Mexico Health and Environment Department, Environmental Improvement Division, Santa Fe, New Mexico  
Regional Administrator, Environmental Protection Agency, Dallas, Texas  
Regional Director, FWS, Habitat Resources, Albuquerque, New Mexico

# AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

1, \_\_\_\_\_

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of \_\_\_\_\_

One weeks.

Beginning with the issue dated

March 31, 19 86

and ending with the issue dated

March 31, 19 86

Robert L. Summers  
Publisher.

Sworn and subscribed to before

me this 31 day of

March, 19 86

Vera M. Munchy  
Notary Public

My Commission expires \_\_\_\_\_

Nov. 14, 19 88  
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

## LEGAL NOTICE

March 31, 1986

### NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-2) Phillips 66 Natural Gas Company, Lee (Buckeye) Plant, J.E. Jennings, Agent, 4001 Penbrook, Odessa, Texas 79762, proposes to renew the previously approved discharge plan at its facility located in the SW/4SE/4 of Section 30, Township 17 South, Range 35 East (NMPM), Lea County, New Mexico. Approximately 57,000 gallons per day of process, boiler and cooling tower waste water with a total dissolved solids content of approximately 5300 mg/l will be discharged to holding tanks. The discharge water will then be pumped to Rice Engineering for final disposal via OCD-approved deep well injection. Ground water most likely to be affected by any discharge at the surface is at a depth of about 85 feet and has a total dissolved solid concentration of approximately 600 mg/l.

(GW-3) Texaco Producing Inc., Eunice No. 1 Gas Processing Plant (formerly Getty Eunice No. 1), J. Anderson, Manager, Natural Gas Plants Division, P.O. Box 1650, Tulsa, Oklahoma, 74102, proposes to renew the previously approved discharge plan at its facility located in the NW/4SW/4 of Section 27, Township 22 South, Range 37 East (NMPM), Lea County, New Mexico. Approximately 91,300 gallons per day of process, boiler, and cooling tower water, with a total dissolved solids content of approximately 7000 mg/l will be discharged to a lined pond for storage prior to final disposal via OCD-approved deep well injection at site. Other lined pits hold brine water for LPG storage well use. The ground water most likely to be affected from any discharge at the surface is at a depth of about 65 feet and has a total dissolved solids concentration of approximately 1700 mg/l.

(GW-4) Texaco Producing Inc., Eunice No. 2 Gas Processing Plant (formerly Getty Eunice No. 2), J. Anderson, Manager, Natural Gas Plants Division, P.O. Box 1650, Tulsa, Oklahoma 74102, proposes to renew the previously approved discharge plan at its facility located in the NE/4SE/4 of Section 28, Township 21 South, Range 37 East (NMPM), Lea County, New Mexico. Approximately 24,300 gallons per day of process, boiler, and cooling tower water, with a total dissolved content of approximately 7100 mg/l will be discharged to a pipeline operated by Aqua Incorporated for final disposal via OCD-approved deep well injection. The ground water most likely to be affected from any discharge at the surface is at a depth of about 70 feet and has a total dissolved solids concentration ranging from 1200 to 2600 mg/l.

(GW-5) Warren Petroleum Company, Eunice Gas Processing Plant, L.T. Reed, Director, Environmental Affairs, P.O. Box 1589, Tulsa, Oklahoma 74102, proposes to renew the previously approved discharge plan at its facility located in the NE/4 of Section 3, Township 22 South, Range 37 East (NMPM), Lea County, New Mexico. Approximately 45,000 gallons per day of process, boiler, and cooling tower water, with a total dissolved solids content of approximately 3600 mg/l will be discharged to metal holding tanks for storage prior to final disposal via OCD-approved deep well injection at the sites. The ground water most likely to be affected from any discharge at the surface is at a depth of about 90 feet and has a total dissolved solids concentration ranging from about 400 to 2000 mg/l.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by an interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of March, 1986. To be published on or before March 31, 1986.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
R.L. STAMETS  
Director  
(SEAL)

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations the following proposed discharge plan has been submitted for approval to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088. Telephone (505) 827-5800.

(GW-32) Giant Refining Company, Carl D. Shook, Refinery Manager, Suite 3, Box 7, Gallup, New Mexico 87301, has submitted a discharge application for the Chula Refinery located 17 miles east of Gallup, on U.S. Highway 40. The refinery is associated with facilities located in the NW of Township 15 North, Range 37 East, Lea County, New Mexico (NMPM).

The refinery's waste-water use is approximately 7100 m<sup>3</sup>/day and is discharged to a pipeline operated by Aqua Incorporated for final disposal. The refinery's waste-water, with a total dissolved content of approximately 7100 m<sup>3</sup>/day, is discharged to a pipeline operated by Aqua Incorporated for final disposal.

International Welco  
syndicated dinner in New York  
The

STATE OF NEW MEXICO

County of Bernalillo

THOMAS J. SMITHSON

being duly sworn declares and says that he is NAT'L ADV. MGR. of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 3 day of April, 1984, and the subsequent consecutive

publications on 2 day of May, 1984.

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 3 day of April, 1984.

PRICE 67.63

Statement to come at end of month.

ACCOUNT NUMBER 080932

OFFICIAL SEAL  
Signature: Vickie J. Basi  
VICKIE J. BASI  
NOTARY PUBLIC-NEW MEXICO  
Notary Bond Filed with Secretary of State  
My Commission Expires: 5/31/89  
EDJ-15 (R-2/86)



NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

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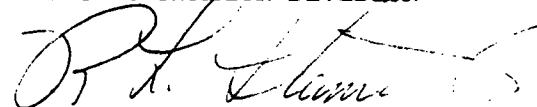
Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by an interested person. Requests for public hearing shall set forth the

reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of March, 1986. To be published on or before March 31, 1986.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



R. L. STAMETS  
Director

S E A L



1935 - 1985

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800TONEY ANAYA  
GOVERNORSTATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

March 18, 1986

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Ms. L. T. Reed, Director  
Environmental Affairs  
Manufacturing Department  
Warren Petroleum Company  
P. O. Box 1589  
Tulsa, Oklahoma 74102

RE: Discharge Plan GW-5  
Eunice Gas Processing Plant

Dear Ms. Reed:

We have received your letter of March 12, 1986, requesting continued approval to discharge at the subject facility, and asking for clarification as to the correct date of original discharge plan approval. A search of our files did not reveal a final discharge plan approval letter for your facility; a draft letter dated May 16, 1981, was found and a copy is enclosed. We also did not find the May 2, 1983, discharge plan amendment referenced in your March 12 letter, and request that you provide us with a copy.

Regarding the May 12, 1983, Oil Conservation Commission ratification action mentioned in your March 12 letter, such ratification merely gave Commission approval (if it was needed) to Oil Conservation Division approval of discharge plans "on the dates such approval was given". The ratification had no effect on the dates of approval or expiration of the discharge plans listed in the ratification resolution.

Based on the available information in the file, including the draft approval letter, and public notice issuance, we believe that the actual approval date was on or about May 16, 1981. Therefore, in absence of other information, discharge plan approval will expire on May 16, 1986. Your letter of March 12 will be considered a renewal application, and we will begin review of the file, issue public notice, and schedule a site visit for early April. Hopefully, review of the renewal application will be complete by May 16 so discharge plan extension will not be necessary.

Ms. L. T. Reed  
March 18, 1986  
Page 2

Mr. Roger Anderson, Environmental Engineer, of this office will be performing the review of the discharge plan renewal application. If you have any questions, please contact him at (505) 827-5885.

Sincerely,



DAVID G. BOYER, Geologist  
Environmental Bureau Chief

DGB:dp

Enclosure

PS Form 3811, July 1983 447-945

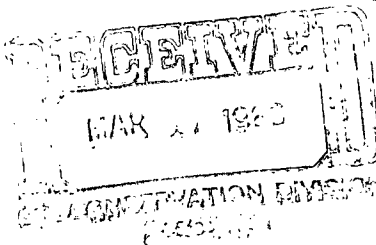
<b>SENDER: Complete items 1, 2, 3 and 4.</b>	
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. <input type="checkbox"/> Show to whom, date and address of delivery.	
2. <input type="checkbox"/> Restricted Delivery.	
3. Article Addressed to: Ms. L.T. Reed, Director Environmental Affairs Manufacturing Department Warren Petroleum Company P. O. Box 1589 Tulsa, Oklahoma 74102	
4. Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	Article Number  P 612 458 119
Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>	
5. Signature - Addressee X	
6. Signature - Agent X <i>B. Nealy</i>	
7. Date of Delivery MAR 21 1986	
8. Addressee's Address (ONLY if requested and fee paid)	

DOMESTIC RETURN RECEIPT



**Warren Petroleum Company**

A Division of Chevron U.S.A. Inc.  
P.O. Box 1589, Tulsa, OK 74102



Manufacturing Department

March 12, 1986

Mr. David Boyer  
Environmental Bureau Chief  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Boyer:

Re: Discharge Plan GWR-5 <sup>May</sup>  
Approval Date of ~~March~~ 16, 1981, Specified by OCD  
Eunice Gas Processing Plant  
Lea County, New Mexico

In direct accordance with your information of October 18, 1985, please accept this letter as our application to continue disposing of the wastewater from the subject facility into an injection well. There are no effluent discharges to the ground from the plant.

Since there have been no changes in operation of the plant that would affect the discharge water, our formal Wastewater Discharge Plan submitted to you on April 8, 1981, and amended on May 2, 1983, remains current.

Also, please note that our records reflect our Eunice Discharge Plan was approved on May 12, 1983, by the Oil Conservation Commission. A copy of the resolution is attached. It has been our understanding that the Plan, as amended, would not expire until May 12, 1988. We are confused as to how you derived an expiration date of March 16, 1986, for the Plan and would appreciate your comments as to the conflicting time periods.

If, in the meantime, you have any questions or need further information, please contact Linda Johnson, or me, at (918) 560-4138.

Very truly yours,

L. T. Reed, Director  
Environmental Affairs

LTR/LLJ/ar  
Attachments

MINUTES OF THE MEETING  
OF THE OIL CONSERVATION COMMISSION  
HELD ON MAY 12, 1983

The Oil Conservation Commission met at 9:15 a.m. on May 12, 1983, in the Oil Conservation Commission Conference Room, State Land Office Building, Santa Fe, New Mexico.

PRESENT: ED KELLEY, Member  
JOE D. RAMEY, Member

The following resolution was read:

RESOLUTION

- WHEREAS The New Mexico Oil Conservation Commission is named by the New Mexico Water Quality Act, §74-6-1 et. seq. NMSA 1978, as a constituent agency; and
- WHEREAS the reorganization of New Mexico State Government in 1978 transferred responsibilities for regulation of the oil and gas producing industry to the Oil Conservation Division of the Energy and Minerals Department; and
- WHEREAS Section 70-2-6 NMSA 1978 assigns jurisdiction and authority over oil and gas operations to the Oil Conservation Division; and
- WHEREAS Section 70-2-12(15) assigns the Oil Conservation Division the specific responsibility for regulating the disposition of water produced in conjunction with oil and gas operations in such a manner as to afford reasonable protection of fresh water supplies; and
- WHEREAS the staff of the Oil Conservation Division of the Energy and Minerals Department has exercised functional responsibility for water quality matters assigned to the Commission because of its constituent agency status; and
- WHEREAS all actions relating to Commission responsibilities have been performed by the Division under the direct supervision of a member of the Commission who is Director of the Oil Conservation Division; and
- WHEREAS the Director of the Division has after extended review and consideration approved the following discharge plans:

Refinery or Gasoline Plants

GWR-1	Plateau Inc.
GWR-2	Phillips Petroleum
GWR-3	Getty Oil (Eunice 1)
GWR-4	Getty Oil (Eunice 2)
GWR-5	Warren Petroleum (Gulf)
GWR-6	El Paso Natural Gas (Washington Pl.)
GWR-7	El Paso Natural Gas (Jal 4)



Brine Extraction Facilities

GWB-1	Wasserhund, Inc.
GWB-2	Brunson & McKnight
GWB-3	Conoco, Inc.
GWB-4, 5,	
6	Permian Brine Sales, Inc.
GWB-7	P & S Brine Sales
GWB-8	Salado Brine Sales
GWB-9, 10,	
11, 12	Unichem International
GWB-13	Sims-McCasland Water Sales

WHEREAS in each of these cases there is a possibility that discharges are made which are not exclusively within the jurisdiction of the Oil Conservation Division under the terms of the Oil and Gas Act, Section 70-2-1 et. seq. NMSA, but instead are within the jurisdiction of the Oil Conservation Commission as a constituent agency of the Water Quality Act, Section 74-6-1 et. seq. NMSA, 1978; and

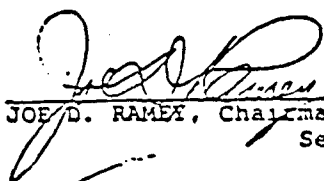
NOW THEREFORE, the Oil Conservation Commission meeting after proper notice to the public hereby adopts and ratifies the action taken by the Division in approving each of these plans on the dates such approval was given.

Mr. Kelley made a motion to elect Mr. Ramey as Chairman and Secretary of the Commission. The motion was seconded and it carried unanimously.

Mr. Ramey made a motion that the Oil Conservation Commission adopt the notice requirements set forth in the Oil and Gas Act as the appropriate notice procedures for all Oil Conservation Commission and Division hearings and meetings. The motion was seconded and passed unanimously.

The meeting was adjourned at 9:30 a.m.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
JOE D. RAMEY, Chairman and  
Secretary



ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

\*\*\* INDICATES THAT THIS TEST WAS NOT RUN



**Home Office 707 N. Leach, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010**

## WATER ANALYSIS

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME: WARREN PETROLEUM COMPANY  
FACILITY: EUNICE PLANT  
LOCATION: EUNICE, N.M.

DATE: 02/20/86  
SAMPLE DATE: 02/19/86  
DATE ANALYZED: 02/20/86

SAMPLE IDENTIFICATION : WASTE  
WATER

BARIUM	NIL
CHROMIUM	NIL
LEAD	.5
MANGANESE	.3
ZINC	.40

\*\*\* INDICATES THAT THIS TEST WAS NOT RUN  
UNICHEM INTERNATIONAL INC.

Tests should be run for the following contaminants in order to comply with our Spill Prevention and Control Plan:

Waste  
Incinerator  
Plant

Acid ✓ Arsenic (As)  
Acid ✓ Barium (Ba)  
Cadmium (Cd)  
Acid ✓ Chromium (Cr)  
Cyanide (CN)  
Fluoride (F)  
Acid ✓ Lead (Pb)  
Total Mercury (Hg)  
Nitrate (NO<sub>3</sub> as N)  
Selenium (Se)  
Benzene & Ethylbenzene  
Toluene  
✓ Chloride (Cl)  
Acid ✓ Cooper (Cu)  
Acid ✓ Iron (Fe)  
Acid ✓ Manganese (Mn)  
Phenols  
✓ Sulfate (SO<sub>4</sub>)  
✓ Total Dissolved Solids (TDS) calc  
Acid ✓ Zinc (Zn)  
Xylene (para, ortho & meta)  
✓ pH  
✓ Conductivity

sampling

2/set

- one acidified w/ SnCl<sub>2</sub>  
HNO<sub>3</sub> (6. mols)

- one no addition

refrigerate

analyze w/ 24 hrs

+ F<sub>2</sub>O<sub>4</sub> 10-20  
0-100  
Alk

- H<sub>2</sub>O<sub>2</sub>

Ca  
Mg

Acid - SiO<sub>2</sub>

Sampling and analytical techniques shall conform with the following references unless otherwise specified by the director:

1. Standard Methods for the Examination of Water and Wastewater, latest edition, American Public Health Association; or
2. Methods for Chemical Analysis of Water and Waste and other publications of the Analytical Quality Laboratory, EPA; or
3. Techniques of Water Resource Investigations of the U. S. Geological Survey; or
4. Annual Book of ASTM Standards, Part 31, Water, latest edition, American Society for Testing and Materials; or
5. Federal Register, latest methods published for monitoring pursuant to Resource Conservation and Recovery Act regulations; or
6. National Handbook of Recommended Methods for Water-Data Acquisition, latest edition, prepared cooperatively by agencies of the United States Government under the sponsorship of the U. S. Geological Survey.

50 YEARS



TONEY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION



1935 - 1985

October 18, 1985

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Warren Petroleum Co.  
P.O. Box 1589  
Tulsa, OK 74102

Attention: Ms. L. T. Reed

Re: Discharge Plan GWR-5

Dear Ms. Reed:

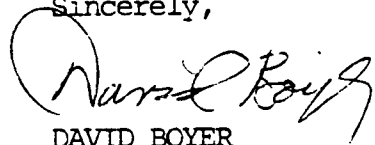
On ~~March~~ <sup>May</sup> 16, 1981, the ground water discharge plan, GWR-5, for the Eunice Gas Plant located in Lea County was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission Regulations and it was approved for a period of five years or less. The approval will expire on March 16, 1986.

If your facility continues to have effluent or leachate discharges and you wish to continue discharging, please submit your application for renewal of plan approval as quickly as possible. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can often extend for several months. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, include an application for plan amendment with your application for renewal. To assist you in preparation of your renewal application, I have enclosed a copy of the OCD's guidelines for preparation of ground water discharge plans at natural gas processing plants. These guidelines will be used in review of your renewal application.

If you no longer have such discharges and discharge plan renewal is not needed, please notify this office.

If you have any questions, please do not hesitate to contact Jami Bailey or me at (505) 827-5812.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Boyer". The signature is written in dark ink and is positioned above the printed name and title.

DAVID BOYER  
Environmental Bureau Chief

DB/JB/dp

Enc.

cc: R. L. Stamets  
OCD - Hobbs



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

February 27, 1985

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Arrow Gas Company  
P.O. Box 1777  
Roswell, NM 88201

Attention: Mr. R. L. Guest

Re: Discharge Plan for Arrow  
Gas Co. Loco Hills  
Facility (GW-19)

Dear Mr. Guest:

The ground water discharge plan (GW-19) for Arrow Gas Company's Loco Hills Facility located in Section 22, Township 15 South, Range 29 East, Eddy, County, New Mexico, is hereby approved. The approved discharge plan consists of the plan dated April 23, 1984, and the materials dated January 4, 1985 and February 7, 1985, submitted as supplements to the discharge plan.

The discharge plan was submitted pursuant to Section 3-106 of the N.M. Water Quality Control Commission Regulations. It is approved pursuant to Section 3-109. Please note subsections 3-109.E. and 3-109.F., which provide for possible future amendment of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

There will be no routine monitoring or reporting requirements. Reporting of spills or leaks will be as specified in the discharge plan.

Please note that Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C. you are required to notify the director of any facility expansion, production increase, or

process modification that would result in any significant modification in the discharge of water contaminants.

Pursuant to subsection 3-109.G.4., this plan approval is for a period of five years. This approval will expire February 26, 1990, and you should submit an application for new approval in ample time before that date.

On behalf of the staff of the Oil Conservation Division, I wish to thank you (and your staff and/or consultants) for your cooperation during this discharge plan review.

Sincerely,



R. L. STAMETS,  
Director

RLS/PB/dp

cc: OCD-District II Office

P 505 905 860

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

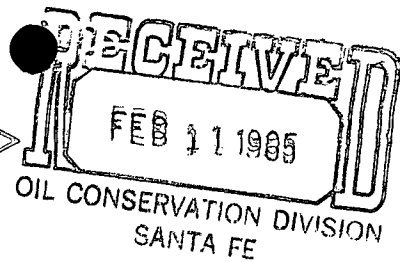
Sent to Arrow Gas Company	
Street and No. Box 1777	
P.O., State and ZIP Code Roswell, NM 88201	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date A	

PS Form 3800, Feb. 1982



**ARROW**  
GAS COMPANY

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201



Sunwest Bank  
Building

500 North Main  
505 622-8031

February 7, 1985

Mr. Phillip L. Baca  
Oil Conservation Division  
Energy and Minerals Department  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Discharge Plan Data - Loco Hills, New Mexico

Dear Mr. Baca:

This letter is a follow-up to my letter of January 4, 1985 answering certain questions you had on our discharge plan for our Loco Hills underground storage operation. At the time of my January 4 letter, we were in the process of obtaining water samples from both our discharge pond, and a windmill approximately 3/4 miles to the north of our facility.

These samples were delivered to Albuchemist, Inc. in Albuquerque and samples were tested for the constituents is listed in Section 3-103. We received the report on this analysis this date, and a copy is enclosed herewith for your review.

I believe we have now complied with the several requests for information and data included in your letter of December 19, 1984. I trust that our discharge plan will now be approved.

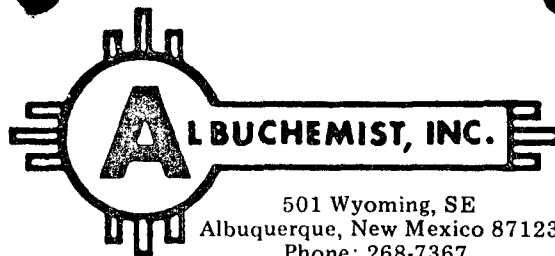
Yours very truly,

A handwritten signature in cursive script, appearing to read "Robert L. Guest".

Robert L. Guest  
Vice President

RLG:ks

Enclosure



501 Wyoming, SE  
Albuquerque, New Mexico 87123  
Phone: 268-7367

ARROW GAS CO.

FEB 7 1985

RECEIVED ACCT. DEPT.

DATE: February 5, 1985

LAB. NO. 10785-5

FOR: Arrow Gas Company  
Attention: Don Blackard  
P. O. Box 1777

Roswell, NM 88201

SAMPLE: 2 water samples

DATE DELIVERED:

Underground Water

Windmill Water

RESULTS:

Chromium .....	<0.05 mg/l	.....	<0.05 mg/l
Cadmium .....	0.28 mg/l	.....	<0.01 mg/l
Silver .....	0.07 mg/l	.....	<.05 mg/l
Barium .....	<1.0 mg/l	.....	<1.0 mg/l
Selenium .....	<.012 mg/l	.....	<.01 mg/l
Arsenic .....	<.01 mg/l	.....	<.01 mg/l
Mercury .....	.0027 mg/l	.....	<.001 mg/l
Lead .....	<0.05 mg/l	.....	<0.05 mg/l
Fluoride .....	4.77 mg/l	.....	1.14 mg/l
Nitrate (as N) .....	0.43 mg/l	.....	0.73 mg/l
Benzene .....	.015 mg/l	.....	.012 mg/l
Toluene .....	.014 mg/l	.....	.017 mg/l
Cyanide .....	<0.05 mg/l	.....	<0.05 mg/l

BY:

*Alan Snygon*

Chemist

# Affidavit ● Publication

## Copy of Publication

No. 10910

STATE OF NEW MEXICO,  
County of Eddy:

Gary D. Scott being duly  
sworn, says: That he is the Business Manager of The  
Artesia Daily Press, a daily newspaper of general circulation,  
published in English at Artesia, said county and state, and that  
the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia  
Daily Press, a daily newspaper duly qualified for that purpose  
within the meaning of Chapter 167 of the 1937 Session Laws of  
the State of New Mexico for 1 days  
consecutive weeks on  
the same day as follows:

First Publication January 24, 1985

Second Publication

Third Publication

Fourth Publication

and that payment therefore in the amount of \$  
has been made.

Subscribed and sworn to before me this 25th day

of January, 19 85

Burbaun Brown  
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1987

### LEGAL NOTICE

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY AND MINERALS  
DEPARTMENT  
OIL CONSERVATION  
DIVISION

SANTA FE, NEW MEXICO  
Notice is hereby given that  
pursuant to New Mexico  
Water Quality Control Com-  
mission regulations, the  
following discharge plan has  
been submitted for approval  
to the Director of the Oil Con-  
servation Division, P.O. Box  
2088, State Land Office  
Building, Santa Fe, New  
Mexico 87501 (505) 827-5800.

Arrow Gas Company, Loco  
Hills Underground Propane  
Storage Facility (SW 1/4 Sec-  
tion 22, Township 17 South,  
Range 29 East, NMPM, Eddy  
County, New Mexico), R.L.  
Guest, Authorized Agent,  
P.O. Box 1777, Roswell, New  
Mexico 88201, proposes con-  
tinuation of brine discharge  
to an existing 2.44 million  
gallon plastic-lined storage  
pond. The brine discharge is  
the result of propane injec-  
tion to three salt domes. The  
brine storage pond contains a  
secondary plastic liner and a  
leak detection system. The  
brine is reinjected to the  
domes when propane extrac-  
tion is desired. The ground  
water most likely to be af-  
fected is at a depth of 75 feet  
with a concentration in ex-  
cess of 10,000 mg/l total  
dissolved solids.

Any interested person may  
obtain further information  
from the Oil Conservation  
Division and may submit  
written comments to the  
Director of the Oil Conserva-  
tion Division at the address  
given above. Prior to ruling  
on any proposed discharge  
plan or its modification, the  
Director of the Oil Conserva-  
tion Division shall allow at  
least thirty (30) days after  
the date of publication of this  
notice during which com-  
ments may be submitted to  
him and a public hearing  
may be requested by an in-  
terested person. Requests for  
public hearing shall set forth  
the reasons why a hearing  
should be held. A hearing will  
be held if the Director deter-  
mines there is significant  
public interest.

If no public hearing is held,  
the Director will approve or  
disapprove the proposed plan  
based on information  
available. If a public hearing  
is held, the Director will ap-  
prove or disapprove the pro-  
posed plan based on informa-  
tion in the plan and informa-  
tion submitted at the  
hearing.

GIVEN Under the Seal of  
the New Mexico Oil Conser-  
vation Commission at Santa  
Fe, New Mexico, on this 14th  
day of January, 1985.

STATE OF NEW MEXICO  
OIL CONSERVATION  
(SEAL) DIVISION  
s-R.L. Stamets  
R.L. STAMETS

Director

Published in The Artesia,  
Daily Press, Artesia, N.M.,  
Jan. 24, 1985.

Legal No. 10910.

# AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

1, \_\_\_\_\_

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of \_\_\_\_\_

One weeks.

Beginning with the issue dated

January 24, 19 85

and ending with the issue dated

January 24, 19 85

Robert L. Summers  
Publisher.

Sworn and subscribed to before

me this 25 day of

January, 19 85  
Vera Murphy  
Notary Public.

My Commission expires \_\_\_\_\_

Nov. 14, 19 88  
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

## LEGAL NOTICE January 24, 1985 NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

SANTA FE, NEW MEXICO  
Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P.O. Box 2088, State Land Office Building, Santa Fe, New Mexico 87501. (505) 827-5800.

Arrow Gas Company, Local Hills Underground Propane Storage Facility (SW/4 Section 22, Township 17, South, Range 29 East, NMPM, Eddy County, New Mexico), R.L. Guest, Authorized Agent, P.O. Box 1777, Roswell, New Mexico 88201, proposes continuation of brine discharge to an existing 2.44 million gallon plastic lined storage pond. The brine discharge is the result of propane injection to three salt domes. The brine storage pond contains a secondary plastic liner and a leak detection system. The brine is reinjected to the domes when propane extraction is desired. The ground water most likely to be affected is at a depth of 75 feet with a concentration in excess of 10,000 mg/l total dissolved solids.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by an interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 14th day of January, 1985.

STATE OF  
NEW MEXICO

(SEAL)

STATE OF NEW MEXICO, ss.  
County of Bernalillo

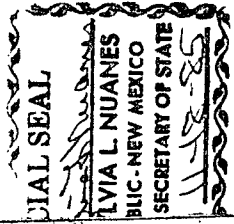
NOTICE OF  
PUBLICATION  
STATE OF  
NEW MEXICO  
ENERGY AND MINE-  
RAIS DEPARTMENT, OIL  
CONSERVATION DIVI-  
SION, SANTA FE, NEW  
MEXICO

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STATE OF  
NEW MEXICO  
OIL CONSERVATION  
DIVISION  
s/R.L. Stramets  
Director

*Thomas B. Stramets* being duly sworn declares and says that he is *Notary Public* of Albuquerque Journal, and that this news- paper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefor has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition, for *22* times, the first publication being on the *22* day of *January*, 198 *5*, and the subsequent consecutive pub- lications on *January 23, 24, 25, 26, 27, 28, 29, 30, 31, 1985*.



Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this *22* day of *January*, 198 *5*.

EDJ-15 (1/80)

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
SANTA FE, NEW MEXICO

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GIVEN Under the Seal of the New Mexico Oil  
Conservation Commission at Santa Fe, New Mexico, on this  
14th day of January, 1985.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in dark ink, appearing to read "R. L. Stamets", is written over the typed name and title.

R. L. STAMETS  
Director

S E A L



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

January 7, 1985

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Arrow Gas Co.  
P.O. Box 1777  
Roswell, NM 88201

Attention: Mr. R. L. Guest

Dear Mr. Guest:

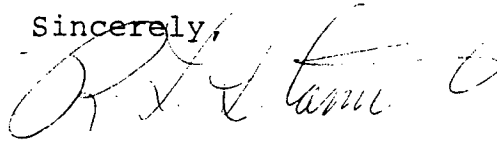
We have received your letter dated January 4, 1985, containing some of the information requested by the OCD in a letter dated December 19, 1984. We understand that you will be obtaining water samples from the holding ponds the week of January 7th and that they will be sent to a lab in Albuquerque for analysis. We further understand that you will attempt to obtain a water sample from a windmill 3/4 mile to the north of your facility.

Due to recent organizational changes in the OCD, there has been a delay in the review of your discharge plan. Therefore, Arrow Gas Co. is hereby allowed to operate its Loco Hills facility without an approved discharge plan until April 30, 1985. This extension should allow ample time for Arrow Gas Co. to obtain the results of the water analysis requested and for the OCD to inform the public via public notice of Arrow Gas Co.'s discharge plan.



We appreciate your prompt reply to our request for additional information. If you have any questions on the discharge plan process, please feel free to contact Dave Boyer or Phil Baca at (505) 827-5812.

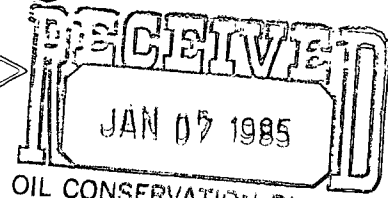
Sincerely,

A handwritten signature in dark ink, appearing to read "R. L. Stamets", with a stylized flourish at the end.

R. L. STAMETS  
Director

RLS/PB/dp

cc: OCD-Artesia



Sunwest Bank  
Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

OIL CONSERVATION DIVISION  
SANTA FE  
500 North Main  
505 622-8031

January 4, 1985

Mr. Philip L. Baca  
Oil Conservation Division  
Energy and Minerals Department  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Discharge Plan Data - Loco Hills, New Mexico

Dear Mr. Baca:

This is in response to your letter of December 19, 1984, and our phone conversations with you on January 2, 1985 concerning your request for additional information regarding operations at our Loco Hills facility.

1. Water test samples from our discharge are being taken this date, January 4, 1985 and will be delivered to Albuchemist, Inc. in Albuquerque on Monday, January 7, to be analyzed as you requested for constituents listed in Section 3-103.
2. We have set into place a daily check of the sump by our loader at Loco Hills to be logged into a register showing date and hour checked.
3. A visual inspection of the pond and liner together with all piping is performed weekly. All piping except well water is above ground and our loader-custodian in the normal course of his daily duties has opportunity to observe for signs of any piping leaks, etc.
4. Our main contingency plan when a leak develops is to proceed as follows:
  - a) Locate the apparent source of the leak by visual and physical inspection, such as identifying soft spots under the liner, etc.
  - b) Upon identification of the leak locations we would bring the brine water level in the pond down below the point of the leak by means of using the brine to inject into the storage caverns and withdraw propane. If our normal operations would not permit us to do this by using pond water and shutting down our wells within a short period of time, then we would petition the State Land Commissioner for permission to sell brine water to oil field operators to further reduce pond level.

Mr. Philip L. Baca

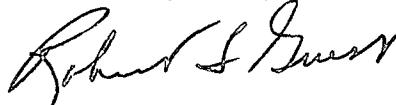
Page 2

January 4, 1985

- c) Once source of leak is exposed above water level, repair would be accomplished and water from wells introduced to again bring water level to a point to test well repair. If satisfactory, then normal well and discharge pond operations would resume.
5. We are attempting to secure a water sample this date from the windmill located about 3/4 mile to the north of our facility. If successful, this sample will also be delivered to the laboratory in Albuquerque on January 7 as mentioned in 1. above, and similarly tested.

As soon as we receive test results from these water samples, this information will be forwarded to you. I do not know for certain how long this will take, but it should not exceed 20 days.

Yours very truly,



Robert L. Guest  
Vice President

RLG:ks

STATE OF  
NEW MEXICO

OIL  
CONSERVATION  
DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal

Time

10:30

Date

1/2/85

Originating Party

Other Parties

R. Guest - Arrow Gas

Subject

Questions concerning OCD letter to Arrow Gas dated  
12/19/84.

Discussion

Told him approximate location of stock well in Section  
22. Also told him we couldn't recommend a laboratory  
for water analysis. He didn't like the idea of Arrow  
Gas requesting an extension when they weren't to blame  
for the delay. I told him to send us a letter indicating  
a date for submitting the information requested by  
OCD and OCD will handle the extension.

Conclusions or Agreements

1. Arrow will try to obtain samples from the  
(stock)water well. 2. Arrow will send a letter indicating a  
date for submitting requested information but will not  
specifically ask for an extension. 3. OCD will consider  
the extension in light of the delay due to reorganization.

Distribution

Signed

P. Baes



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

December 19, 1984

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Arrow Gas Company  
P.O. Box 1777  
Roswell, NM 88201

Attention: Mr. R. L. Guest

Dear Mr. Guest:

We have received your revised discharge plan for Arrow's Loco Hill storage facility. To continue with the review process, the following information is requested:

- 1) Please obtain a sample of water being held in your pond and have it analyzed for those constituents listed in Section 3-103 of the Water Quality Control Commission regulations (copy enclosed) except for silver, uranium, radioactivity, PCB's, and chlorinated hydrocarbons. Please give a brief description of the sampling procedure (e.g., "grab", time-composited, etc.).
- 2) How often is the sump checked for signs of pond leakage?
- 3) Is there any routine inspection of the system piping and pond's primary liner for leaks?
- 4) What is your contingency plan should a leak develop in the pond?
- 5) USGS Report No. 3, "Geology and Ground-Water Resources of Eddy County, New Mexico", indicates the presence of a water well in the NW/4 NW/4 of Section 22, Township 17 South, Range 29 East. The report indicates the depth to water is eighty feet. If possible, obtain a water sample from this well and have it analyzed for the same constituents as the sample requested in Item No. 1 above.

Due to reorganization within the Oil Conservation Division, there has been a delay in reviewing your discharge plan. Section 3-106.A. of the Water Quality Control Commission Regulations states that a person may discharge without an approved discharge plan until 240 days after written notification by the director that a discharge plan is required or such longer time as the director for good cause allows. Because of the delay due to reorganization, the 240 day limit has expired. To comply with the regulations, Arrow Gas Co. should, within 30 days after receipt of this letter, provide an estimate of the time needed to obtain the requested information, and giving good cause request the necessary extension of time to operate without an approved discharge plan.

If you have any questions regarding this letter or the discharge plan process, please feel free to contact me or Dave Boyer at 827-5812.

Sincerely,

*Philip L. Baca*

PHILIP L. BACA  
Environmental Engineer

PLB/dp

cc: R. L. Stamets  
Artesia OCD Office



GAS COMPANY

Security National  
Bank Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

500 North Main  
505 622-8031

April 23, 1984

Mr. Joe D. Ramey  
Director  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

This letter is in response to your letter of March 13, 1984 requesting that we update the discharge plan presently filed with your office as a result of improvements made during the past year to the facilities at Loco Hills, New Mexico. Enclosed herewith is a revised discharge plan together with maps and sketches of the area and specification data on the double lined reservoir for holding brine water. Your office has copies of detail drawings and specifications covering the new brine pond, as these were approved by your office prior to construction.

The enclosed plan does not encompass any real change in operation except that brine discharge from the propane storage caverns is now received into an approved holding pond, rather than the two ponds previously utilized. The former ponds have now dried sufficiently to permit a bulldozer to fill them in and compact the area, which will be accomplished shortly.

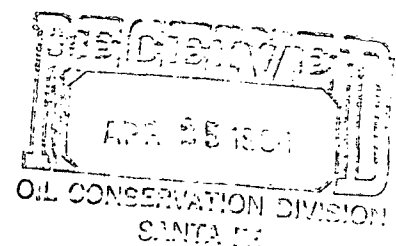
I trust the foregoing information together with the enclosed data will satisfactory comply with your requirments. However, should you need additional data of any type, please let me know.

Yours very truly,

R. L. Guest  
Vice President

RLG:ks

Enclosures



ARROW GAS COMPANY  
DISCHARGE PLANS  
LOCO HILLS UNDERGROUND PROPANE STORAGE  
EDDY COUNTY, NEW MEXICO

DESCRIPTION AND LOCATION OF PROPERTY

Arrow Gas Company operates three underground propane storage wells situated on 40.00 acres of land described as a tract of land included in NW $\frac{1}{4}$  SW $\frac{1}{4}$  of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. A drawing showing approximate property boundaries and indicating location of the following pertinent structures, wells, etc. is enclosed:

- a. Location of propane storage wells
- b. Location of salt water wells used as water supply source for removing propane.
- c. Location of earthen reservoir used to contain brine water removed from propane storage wells when injecting propane.

All personalty located on the premises described above is owned by Arrow Gas Company. Premises are leased thru the New Mexico State Land Office under a five year lease agreement currently expiring on November 12, 1988.

DISCHARGE DESCRIPTION AND PLAN

Arrow Gas Company, in utilizing the three underground propane storage wells, periodically injects propane (HD5) into the three salt dome caverns. Water forced out (discharge) is pumped into one above ground earthen reservoir built in September, 1983 to State of New Mexico Oil Conservation Division specifications complete with required leak detection system.

The new brine storage reservoir is approximately 335' by 180' by 377' by 190'. Capacity of the reservoir is approximately 2.44 million gallons and was designed to more than equal two times the estimated gallonage injection over the main usage period, reduced by the average evaporation based up evaporation curves for the area. Also enclosed is a specification list showing construction notes and materials.

The brine water discharged into the reservoir during propane injection is totally saturated with chloride salts. Total gallons of discharge per year will be three to four million gallons. The rate of flow is between 180 and 200 gallons per minute. Generally all discharge is during the months of May through October.

Water supply for injection into propane storage wells to facilitate propane withdrawal into a series of pressurized above ground vessels is secured from the brine storage pond, and from three separate water wells. Although the water from the water wells contain less chlorides than the discharge water, all three wells are extremely salty.



The Water Resource Division of the Natural Resources Department of the State of New Mexico tested the water from these wells for us. Test results show a chloride content of 60,680 parts per million which is greatly in excess of ground water contaminant levels the regulations are seeking to protect.

These wells are 150 feet deep with water level currently at 75 feet. These wells, with chloride content shown above, are the most likely concentration of ground water to be contaminated by our propane well discharges. Location of water wells in relations to propane storage wells, and earthen reservoirs is also indicated on the attached drawing.

Flooding potential of the site including the earthen reservoir is deemed highly unlikely and remote. A terrain map showing the elevation changes for all of Section 22 is included also. The general location of our property is indicated in red.

Water from water wells, as well as discharge water from propane wells is readily available for testing, sampling, and monitoring at the operation site. To our knowledge, there are no natural bodies of water, or live watercourses withing one mile of the discharge site.

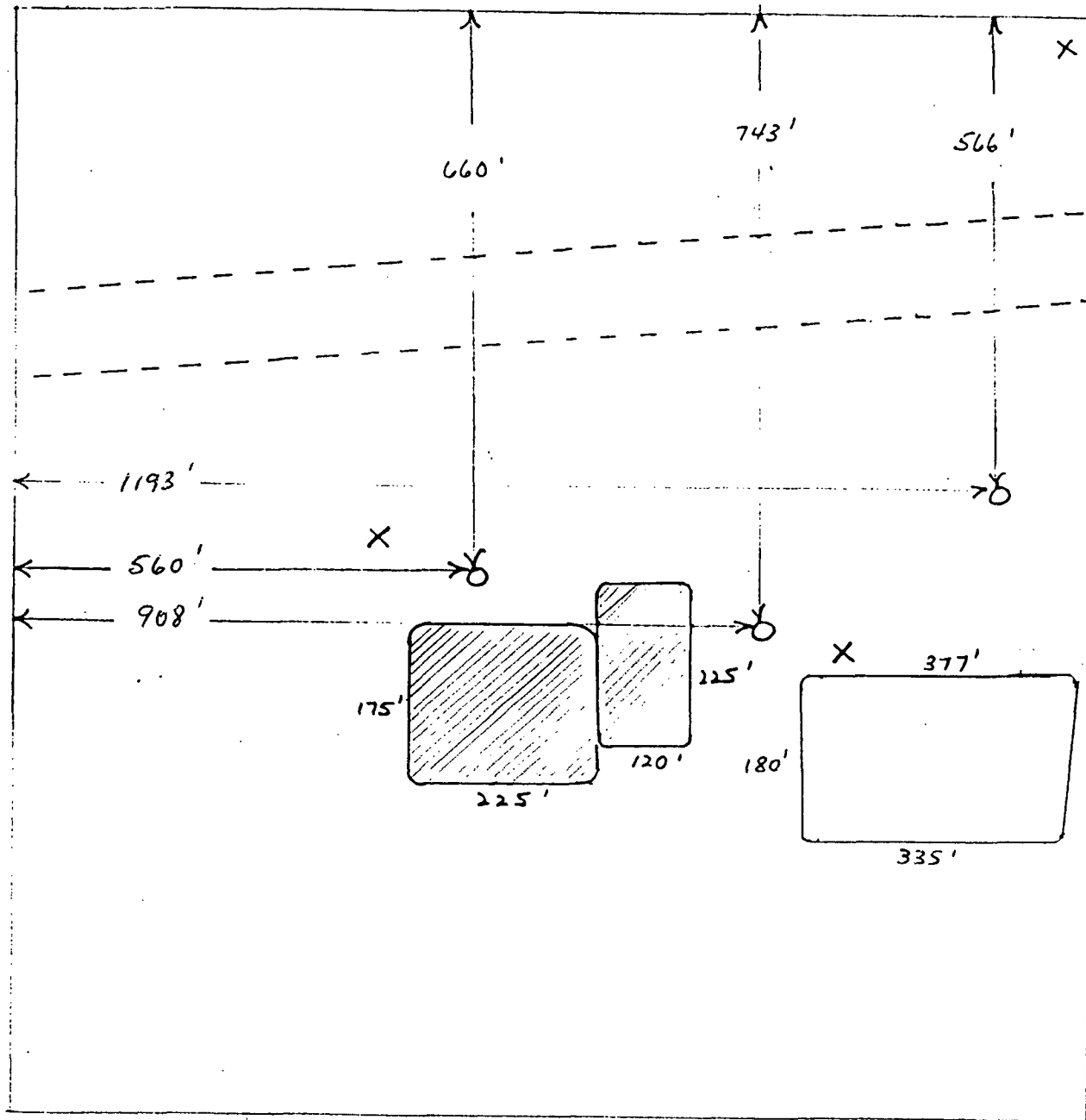
#### ADDITIONAL EFFLUENT DISCHARGE



The only other discharge described in the regulations at this site is effluent discharged from a sewage system into a septic tank and leach field. This effluent is considerably below 2,000 gallons per day and is exempt from discharge plan requirements under Section 3-105 Part B.

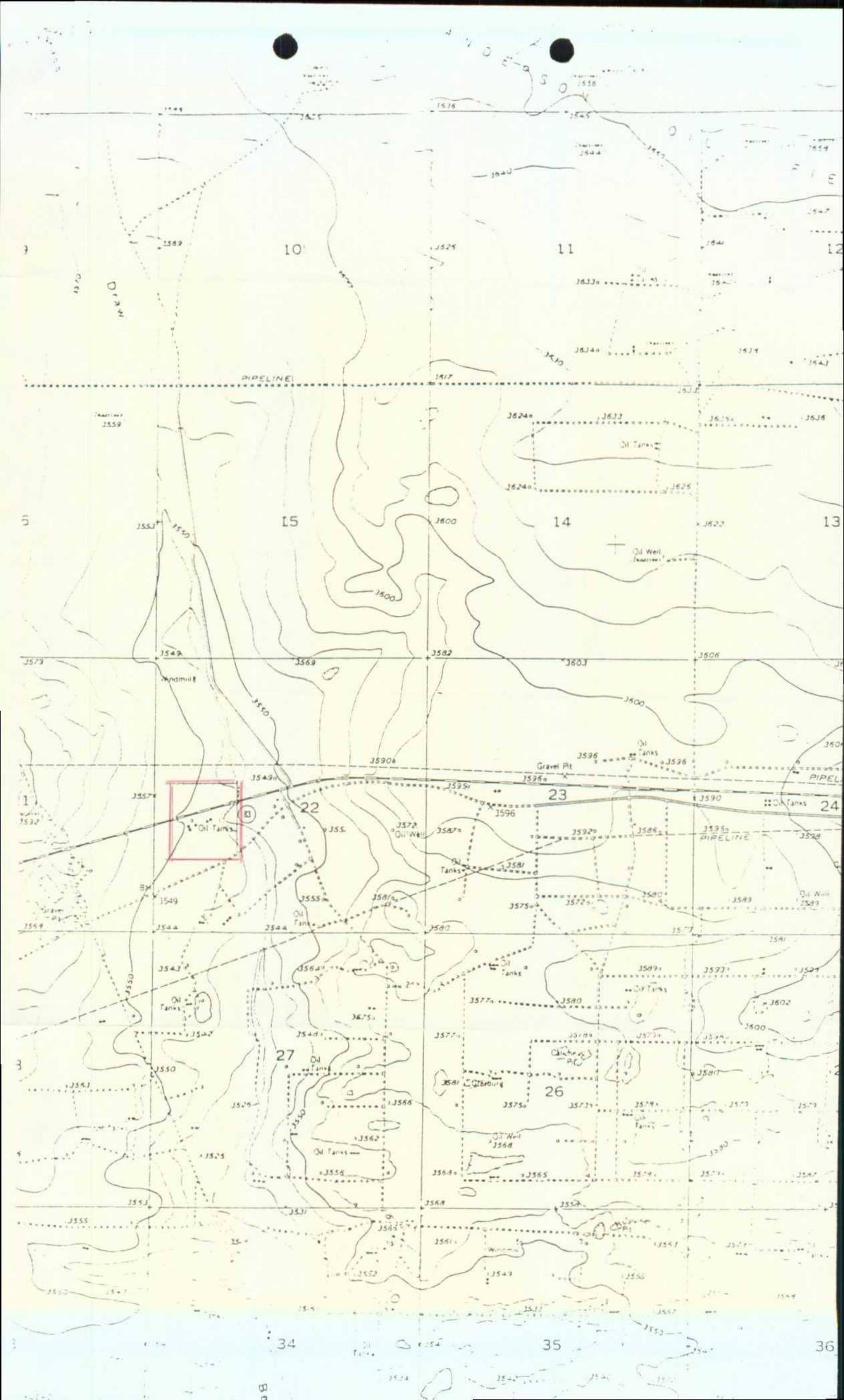
### CONSTRUCTION NOTES & MATERIALS

1. All subgrade and berm embankment fill shall be compacted to a minimum of 90% maximum density (modified Proctor).
2. CPE Liner shall be 30 mil. CP-UR Flexseal Chlorinated Polyethylene Lining Material by B. F. Goodrich, or approved equal from berm to berm; and 30 mil. CP6 Flexseal Reinforced Chlorinated Polyethylene Lining Material by B. F. Goodrich, or approved equal on slopes and tops of berms.
3. Fabric Underlay shall be 55 mil. SUPAC-N Nonwoven Geotextile 5NP by Phillips Fibers Corporation, or approved equal.
4. Separation Fabric shall be 55 mil. SUPAC-N Nonwoven Geotextile 5NP by Phillips Fibers Corporation, or approved equal.
5. PVC Underliner shall be 20 mil. PVC Flexseal Polyvinyl Chloride Lining Material by B. F. Goodrich, or approved equal.
6. Gravel shall be  $\frac{1}{2}$ " to 1" washed gravel containing no crushed rock.
7. PVC Pipe - 4" PVC, SDR 41, perforated with  $\frac{5}{8}$ "  $\emptyset$  holes in upper half of pipe on 2' staggered spacing ea. side: 4" PVC, SDR 26, solid drain line, solvent weld all joints.
8. Sump - Manufactured fiberglass well with fitted lid and sealed bottom, (min.)  $\frac{1}{4}$ " wall thickness, 24" O.D. x 9'-0".
9. Anchor & Tie Down - Liners and tie down tubes to be placed in anchor trench, back filled and compacted to specs.
10. Seams - Use bodied adhesive for CPER liner. Solvent weld PVC underliner, see details.
11. Inlet and Outlet Pipe shall be 3", SDR 17, Yellowmine PVC Pipe with CertaLok Joints by Certainteed Corporation, or approved equal.

LOESS HILLS - UNDERGROUND STORAGE  
 (Not to exact scale)  
 NW $\frac{1}{4}$ -SW $\frac{1}{4}$  Sec. 22  
 1" equals approx. 200'



- U.S. 82 Highway Right of Way
- X Water Wells
- Propane Storage Wells
-  Abandoned and filled-in former brine storage pond
-  New brine storage pond





STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

RECEIVED

MAR 21 1986

TONY ANAYA  
GOVERNOR

May 1, 1984

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POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Warren Petroleum Company  
P. O. Box 1197  
Eunice, New Mexico 88231

Attention: Mr. R. O. Leinweber

Gentlemen:

This office has no objection to the abandoning of your brine pit located at your Eunice Plant.

The pit should be filled and compacted to at least six inches above normal land contour and reseeded.

Yours very truly,

JOE D. RAMEY  
Director

JDR/fd

RECEIVED  
APR 4 1986  
OIL CONSERVATION DIVISION  
SANTA FE

*Environmental Dept.  
General Office  
#10*

5-2-84

FROM R. O. Leinweber AT Eunice  
TO M. L. Ingram AT Tulsa

IN REPLY  
REFER TO

APR 4 1986

DATE April 26, 1984

On April 24, 1984, Mr. R. Lowy and Mr. J. Kenney of the New Mexico Environmental Improvement Division visited the Eunice Plant for the initial inspection concerning Superfund. Debra Johnson from Warren's Tulsa office also accompanied them. Mr. Lowy and Mr. Kenney discussed plant operating procedures now and in the past and filled out the necessary forms concerning hazardous waste and ground water contamination. They talked approximately 1 1/2 hours and most of the conversation centered around our disposal well.

They were told that the land surface is owned by Warren Petroleum Company and consists of approximately 137 acres. They were also given a map of the plant from our emergency and disaster plan. They were told that as far as I knew there had never been any major spills or other actions taken at this plant that would constitute an environmental hazard that would qualify for the Superfund investigation.

Bob Lord, Mr. Kenney, Mr. Lowy, Ms. Johnson and myself drove down and observed our disposal well and brine pit. Mr. Lowy was informed we had been in contact with the New Mexico Oil Conservation Division and were awaiting their instructions as to the abandonment of the brine pit. He said this was satisfactory and had no problem with this.

They were given an analysis of our field water that we use in our cooling tower. They said this would suffice as the nearest ground water source from our plant. There were no samples taken and both men left the plant without making any comments concerning any problems that they had with our facility. Their report should be written and distributed in the near future.

ROL:kp

Xc: L. T. Reed

File

*hp Linn*

#10

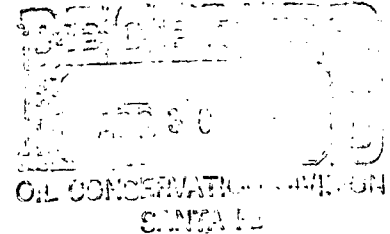
# Warren Petroleum Company

MANUFACTURING DEPARTMENT

P. O. Box 1197  
Eunice, New Mexico 88231

April 26, 1984

Oil Conservation Division  
State of New Mexico  
P. O. Box 2088  
Santa Fe, NM 87501



Dear Mr. Ramey:

This letter is requesting your approval for the abandonment of the brine pit located at the Warren Petroleum Company, Eunice Plant, Lea County, New Mexico.

The pit was constructed in 1951 to accommodate salt water pumped in and out of the LPG storage wells drilled in the same year. The storage wells were no longer used after 1975 and were plugged and abandoned in 1983 following the procedure approved by the New Mexico Oil Conservation Division.

Because there is no longer any use or need for the brine pit, it should also be properly abandoned. I have talked with Mr. Jerry Sexton and it was decided that to abandon the pit, it should be mounded over with dirt so as to provide for water runoff without accumulation and also be reseeded with BLM seed.

If this procedure is satisfactory, we will proceed upon receipt of your approval.

Thank you for your help.

Sincerely,

WARREN PETROLEUM COMPANY

R. O. Leinweber  
Plant Manager

ROL:kp

Xc: M. L. Ingram - Tulsa



A DIVISION OF GULF OIL CORPORATION



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

March 13, 1984

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Arrow Gas Company  
Box 1777  
Roswell, New Mexico 88201

Attention: Mr. Robert L. Guest

Gentlemen:

I have reviewed your discharge plan dated July 22, 1981. Since that time you have probably closed in the two pits and have constructed one large double lined pit for holding of your saturated brine water.

In view of this, would you please review the old discharge plan and submit a new plan to cover the changes in your operations since 1981.

Please submit this information by May 1, 1984.

Yours very truly,

JOE D. RAMEY  
Director

JDR/fd

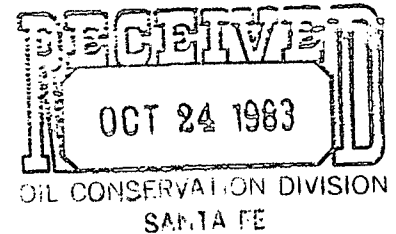




GAS COMPANY

Security National  
Bank Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201



500 North Main  
505 622-8031

October 20, 1983

Mr. Joe D. Ramey  
Director, Oil Conservation Division  
State of New Mexico  
Energy and Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Subject: Arrow Gas Company - Loco Hills Facility  
Eddy County, New Mexico, NW/4, SW/4  
Sec 22, T-175, R-29E

This letter is to confirm to you the completion of new brine holding pond at our Loco Hills facility. Our engineer, Mr. Neal Godwin, General Manager of Mann Engineering in Roswell, has reported to me by letter that the contractor, Belcher Enterprises, has completed the work in accordance with plans and specifications. A copy of Mr. Godwin's letter is enclosed.

Also enclosed is a copy of letter by Mike Williams, an Oil and Gas Inspector, addressed to Mann Engineering indicating your representative has inspected the brine storage pond and approved the liner installation.

Unless you require additional information from us at this time, I would consider this letter to be the final report to your office on the progress of this installation.

Yours very truly,

Robert L. Guest  
Vice President

RLG:mah

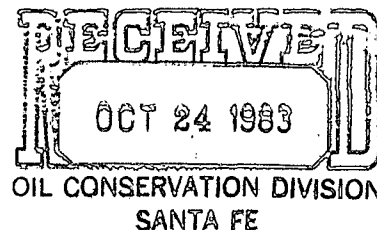
Enclosure

cc: R. A. Boyle



TONEY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION  
ARTESIA DISTRICT OFFICE



October 10, 1983

P.O. DRAWER 00  
ARTESIA, NEW MEXICO 88210  
(505) 748-1283

Mann Engineering Co.  
1605 W. Second  
Roswell, NM 88201

Re: Arrow Gas Co.  
Brine Storage Pond

Gentlemen:

On October 5, 1983 a field inspection was made of the subject facility by a representative of the Oil Conservation Division.

The pit liner was inspected at that time and has met with the approval of this office.

Sincerely,

Mike Williams  
Oil & Gas Inspector



**MANN ENGINEERING CO.**

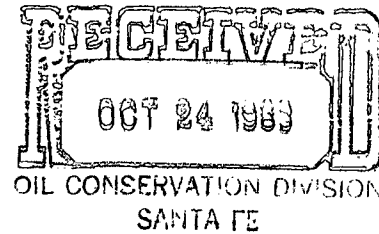
**PROFESSIONAL  
ENGINEERS AND  
LAND SURVEYORS**

1605 WEST SECOND STREET  
P.O. BOX 2034  
ROSWELL, NEW MEXICO 88201  
PHONE (505) 622-8771

October 19, 1983

Job No: Z-1

Mr. Robert L. Guest  
Arrow Gas  
P. O. Box 1777  
Roswell, NM 88201



Re: Brine Holding Pond at Loco Hills Plant

Dear Mr. Guest:

This will confirm that on Tuesday, October 11 we inspected the above-referenced project accompanied by you and Mr. Jerry Belcher.

We found the construction to be generally completed in accordance with the plans; and appeared to be satisfactory for acceptance by you with the following minor exceptions:

1. The Contractor is to adjust the tops of the fiberglass sumps so that the lids will fit properly.
2. The Contractor is to smooth up the slot cuts in the pond outlet pipe head.

We are enclosing herewith a Contractor's Invoice which is in accordance with the Contract amount. We recommend you accept the project as soon as the above two items are taken care of and that payment be made as appropriate. We suggest you have Belcher provide you with lien waivers covering his named suppliers and subcontractors before final payment is made.

We also enclose herewith copies of compaction test reports made during construction for your records. If you have any questions regarding the above, please advise.

Yours very truly,

Neal F. Godwin  
General Manager

NFG:jc

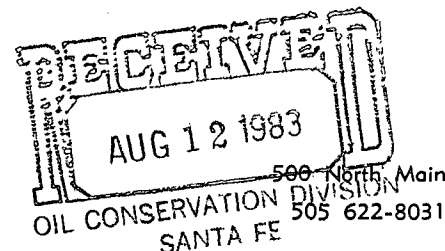
Enclosures

cc: Mr. Jerry Belcher



GAS COMPANY

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201



Security National  
Bank Building

August 10, 1983

Mr. Oscar Simpson  
Oil Conservation Division  
State of New Mexico  
Energy and Minerals Department  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Dear Mr. Simpson:

Subject: Arrow Gas Company - Loco Hills Facility  
Eddy County, New Mexico, NW/4, SW/4  
Sec. 22, T-175, R-29E

This letter will confirm certain elements of our telephone conversation this date regarding progress on the construction of new brine holding pond at our Loco Hills, New Mexico facility. To recap progress since my last letter, a bid opening was held on July 14, 1983 with Belcher Enterprises, Inc. of Hobbs, New Mexico being the apparent low bidder. I referred all bids to my Board of Directors, and approval was granted on July 19, 1983 for me to enter into a contract with Belcher Enterprises.

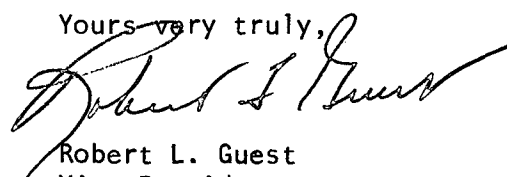
On July 29, 1983 we signed a contract with Belcher and held a pre-construction meeting in the offices of Mann Engineering. During the week of August 1, survey stakes were set and initial clearing of vegetation at the pond site was completed.

Belcher moved in most of their heavy equipment this week and earthwork is totally underway. A sub-contract has been let by Belcher to Midessa, Inc. of Odessa, Texas to furnish and install the pond liners. Neil Godwin of Mann Engineering has appraised your representative in Artesia, Mr. Les Clements of all activity to date.

Mr. Oscar Simpson  
Page 2  
August 10, 1983

Should you have any questions or need additional information, please let me know. Mr. Don Blackard of Arrow directly supervises our Loco Hills operation. Should for any reason I am not available feel free to contact him.

Yours very truly,

A handwritten signature in dark ink, appearing to read "Robert L. Guest", written in a cursive style.

Robert L. Guest  
Vice President

RLG:mah

cc: R. A. Boyle



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION.

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Arrow Gas Company  
P.O. Box 1777  
Roswell, NM 88201

Attention: Robert L. Guest

Re: June 3, 1983 Letter  
from Arrow Gas Co.  
and May 19, 1983, Letter  
from Mann Engineering Co.

Dear Sir:

The Engineering specifications and plans as submitted by Mann Engineering Company and as referenced in their letter of May 19, 1983, are hereby approved. The Division would like to see construction of the storage pond to start as soon as possible.

Your request to continue using the small unlined storage pond until completion of the new brine storage pond is hereby granted. At various phases of construction, the brine storage pond will need to be inspected by the Artesia District Office. Please contact Mr. Les Clements, Artesia District Supervisor and coordinate such matters with him. The Artesia District Office will need a set of plans for their files. In addition, the Santa Fe Office will need samples and spec sheets on the pond liners and fabric underliners as soon as possible.

If you have any questions concerning this matter, please contact Oscar Simpson at (505) 827-5822.

Sincerely,

A handwritten signature in cursive script, reading "Joe D. Ramey".

JOE D. RAMEY  
Director

JDR/OS/dp

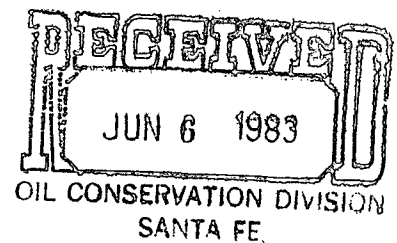
cc: Les Clements  
Artesia District Office



GAS COMPANY

Security National  
Bank Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201



500 North Main  
505 622-8031

June 3, 1983

Mr. Oscar Simpson  
Oil Conservation Division  
State of New Mexico  
Energy and Minerals Department  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Dear Mr. Simpson:

Subject: Arrow Gas Company - Loco Hills Facility  
Eddy County, New Mexico, NW/4, SW/4  
Sec. 22, T-175, R-29E

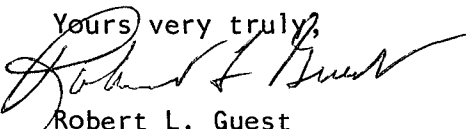
As you know, Mr. Neal Godwin, General Manager at Mann Engineering forwarded one set of prints and construction plans for the new holding pond to your offices on May 19, 1983. I understand these were sent to the attention of Mr. Joe Ramsey as I believe you were to be gone for some time.

Our plans provide for the construction of one completely new pond which I am certain you recall. The new pond will be built to the east of the present two ponds and upon completion we would propose to level out the existing ponds. As soon as your office approves the plans we propose to seek bids and let a contract for construction.

We would like to continue using at least one of the existing ponds to receive discharge when injecting propane into our storage caverns over the next several weeks while the new pond is constructed. We can use either of the ponds you might designate, but we would prefer to use the smaller pond now holding some brine water. The western most pond, although larger, is now completely dry and we would prefer to no longer use it. The smaller pond will handle all of the discharge water we anticipate requiring at this time.

Should you need any additional information or wish to discuss this further, please let me know.

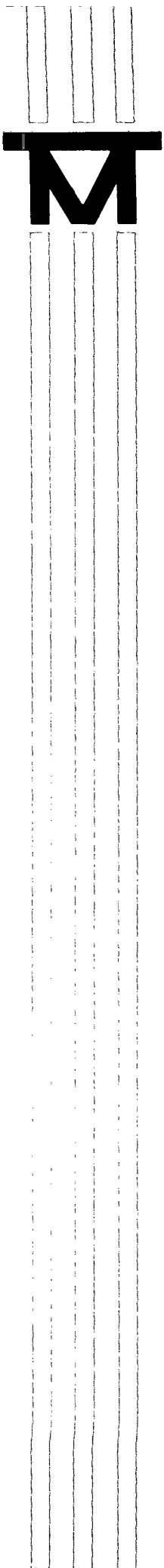
Yours very truly,



Robert L. Guest  
Vice President

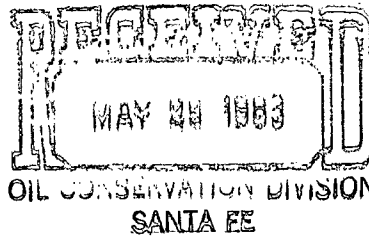
RLG:mah

cc: R. A. Boyle



**MANN ENGINEERING CO.**

**PROFESSIONAL  
ENGINEERS AND  
LAND SURVEYORS**



**1605 WEST SECOND STREET  
P.O. BOX 2034  
ROSWELL, NEW MEXICO 88201  
PHONE (505) 622-8771**

May 19, 1983

22250

Mr. Joe Ramsey  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87501

Re: Arrow Gas Plant, Loco Hills

Dear Mr. Ramsey:

In accordance with our conversation this date, we enclose herewith, one set of prints of construction plans for a new holding pond at the above referenced facility. Please review same and let us have your approval and/or comments at your earliest convenience. Upon your approval, we will submit whatever number of prints you may require for your records.

Yours very truly,

Neal F. Godwin

enclosures

cc: Mr. Bob Guest  
Arrow Gas Company

NFG/tr

*Prints in Brown  
Envelope RB. 11/1/84*

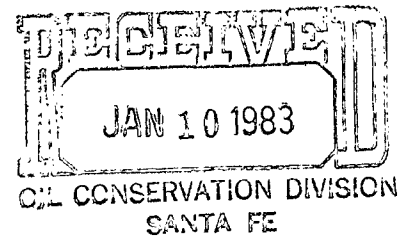




GAS COMPANY

P. O. BOX 1777

ROSWELL, NEW MEXICO 88201



Security National  
Bank Building

500 North Main  
505 622-8031

January 7, 1983

Mr. Oscar Simpson  
Oil Conservation Division  
State of New Mexico  
Energy and Minerals Department  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Dear Mr. Simpson:

Subject: Arrow Gas Company - Loco Hills Facility  
Eddy County, New Mexico, NW/4 SW/4,  
Sec. 22, T-17S, R-29E

As indicated in my letter to you of November 19, 1982, Mr. Thomas Mann of Mann Engineering has been retained to work with Arrow Gas Company in evaluating the alternative methods of lining our brine ponds. Additionally, he will also do the engineering, dirtwork, and pit lining at the appropriate time.

As you know, our area has received several snowfalls since Thanksgiving and the wet ground has not yet permitted Mr. Mann to make soil samples. He has, however, conducted an inspection of our existing ponds; and his familiarity with the area indicates that we can achieve good soil compaction in constructing the new pond(s). Mr. Mann has also asked his son, Thomas Jr., to meet with you to review the specifications. It is my understanding he was able to meet with you this week.

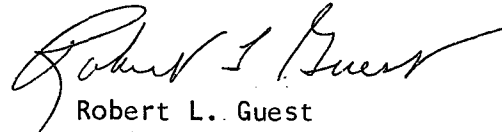
Tenatively, we are hoping to empty one of our ponds in the next week or two so that it can begin to dry. In the meantime, Mr. Mann

Mr. Oscar Simpson  
Page 2  
January 7, 1983

is continuing with his preliminary work which includes cost estimates on pond construction.

Should you have any questions at this time or require any additional information, please let me know.

Yours very truly,



Robert L. Guest  
Vice-President

RLG:mah

cc: Mr. R. A. Boyle  
Chief Executive Officer  
National Propane Corporation



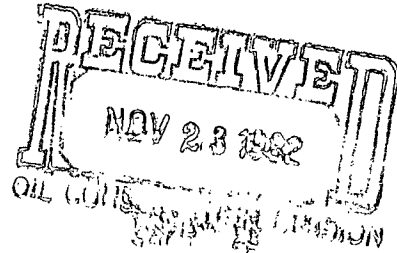
GAS COMPANY

Security National  
Bank Building

P. O. BOX 1777  
ROSWELL, NEW MEXICO 88201

500 North Main  
505 622-8031

November 19, 1982



Mr. Oscar Simpson  
Oil Conservation Division  
State of New Mexico  
Energy and Minerals Department  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Dear Mr. Simpson:

Re: Arrow Gas Company - Loco Hills Facility  
Eddy County, New Mexico, NW/4 SW/4,  
Sec. 22, T-17S, R-29E

This letter is to formally acknowledge receipt of your letter dated October 28, 1982 calling to our attention a violation of Rules and Regulations of the New Mexico Oil Conservation Division in our operation of brine ponds at Loco Hills, New Mexico.

Please be advised that Arrow Gas Company is currently evaluating various alternative methods of lining this pond to comply with specifications called for in the Specifications for Lined Evaporation Pits furnished to us along with the Permit Application. Mr. Thomas Mann of Mann Engineering is undertaking at this time some preliminary work to help size the pond and clarify the leak detection system required. At the completion of this effort, we will be in a better position to select the most cost effective way for us to proceed.

I wish to assure you that Arrow Gas Company will proceed with this corrective action in as timely a fashion as possible. Our own timetable requires that we complete the work so that the brine pond can be utilized for discharge no later than May 1, 1983, hopefully sooner. We do not utilize the brine ponds for well discharge until we inject propane into the storage wells which for us normally commences in the spring. In any event, we are willing to represent to you that our brine pond(s) will be in full compliance with required regulations by July 1, 1983, or well within the nine-month time span you indicated verbally to me would be acceptable.

Mr. Oscar Simpson

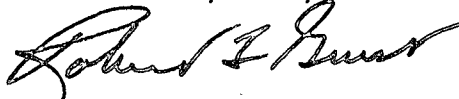
-2-

November 19, 1982

Further, I have agreed that Arrow Gas Company will submit to your office a monthly progress report on this effort until the work is completed. I believe it would be appropriate for the first of these reports to be submitted at the end of December, 1982 since this letter includes information concerning our preliminary efforts.

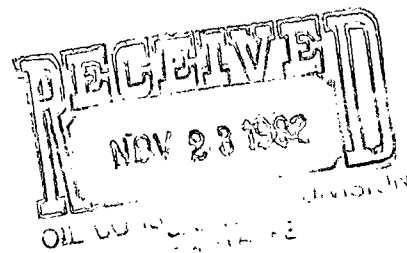
I trust this initial response will suffice at this time. Should there be any problem or questions, please let me know and we will make every attempt to comply with all appropriate requirements.

Yours very truly,

  
Robert L. Guest  
Vice-President

RLG:vs

cc: R. A. Boyle  
Chief Executive Officer  
National Propane Corporation





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

October 28, 1982

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

Arrow Gas Company  
P.O. Box 1777  
Roswell, NM 88201

ATTN: Robert L. Guest

RE: Arrow Gas Company  
Hills Plant, Eddy County,  
New Mexico, NW/4 SW/4, Sec.-  
22, T-17S, R-29E

Dear Sir:

The Oil Conservation Division hereby notifies Arrow Gas Company that its Loco Hills Plant located in the NW/4 SW/4 of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, is currently in violation of Rules 703, 116 and R-3221 of the Rules and Regulations of the New Mexico Oil Conservation Division. Rules 703, 116 and R-3221 state in part:

"Injection projects, including injection wells and producing wells and all related surface facilities shall be operated and maintained at all times in such a manner as will confine the injected fluids to the interval or intervals approved and prevent surface damage or pollution resulting from leaks, breaks, or spills.

Failure of any injection well, producing well, or surface facility, which failure may endanger underground sources of drinking water, shall be reported under the 'Immediate Notification' procedure of Rule 116."

That complete prohibition of surface disposal in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, of water produced in conjunction with the production of oil or gas, or both, should be accomplished by December 31, 1968, unless specifically exempted.

Under the provisions of the New Mexico Oil and Gas Act (Section 70-2-31) violations of this Act are punishable by civil penalties of up to \$1,000 per day for each day of each violation.

An inspection of the Loco Hills facility in late summer and two subsequent field inspections of the surrounding area in the winter of 1981 by Oil Conservation Division personnel found that the surface facilities explicitly the unlined brine pits and appurtenances were not operated and maintained in such a manner as to prevent surface damage or pollution of underground sources of water. Approximately 1/2 mile north of the Loco Hills facility is an operational windmill that supplies water to cattle in the area. An analysis of the water indicates that it is well below the 10,000 mg/L limit and justifies protection from pollution.

Therefore, prior to requesting that legal action be taken, I request that you or other representatives of Arrow Gas Company within 30 days from the date of this letter, submit to this agency a firm procedural commitment to a definite time schedule.

Enclosed is an "Application for Permit to Utilize a Lined Evaporation Pit" and "Specifications for the Design and Construction of Lined Evaporation Pits" which will assist you in determining what storage container is needed at your facility.

Additional requirements for pit specifications are:

- 1) Storage pits may deviate in construction requirements as approved by the Santa Fe Office.
- 2) The surface or a lining material on which the leak detection system is placed must be of such impermeability that it would direct leakage into or to the detection system. Permeability tests and/or other information must demonstrate this ability.

If you have any questions regarding this matter, please do not hesitate to contact me at (505) 827-2534.

Sincerely,

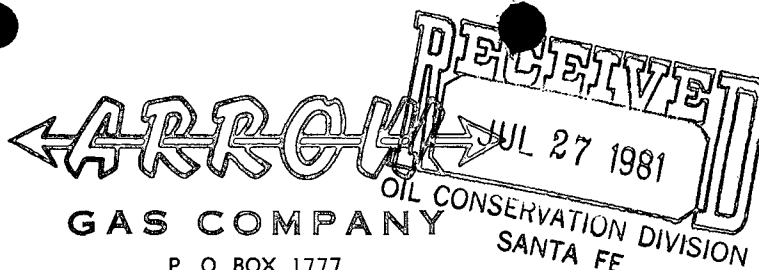


Oscar A. Simpson III  
Water Resource Specialist

OAS/dp

Enc.

Security National  
Bank Building



P. O. BOX. 1777  
ROSWELL, NEW MEXICO 88201

500 North Main  
505 622-8031

July 22, 1981

Mr. Joe D. Ramey  
Division Director  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

SUBJECT: Discharge Plans  
Arrow Gas Company Loco Hills Plant (Eddy County)

As requested by your letter of April 7, 1981, Arrow Gas Company herewith submits discharge plans concerning our activities near Loco Hills, New Mexico. In addition to our discharge plan and description, we also enclose a drawing showing location of discharge site, storage reservoirs and location of water wells. Also enclosed is a terrain map of the area showing elevation changes.

We trust the enclosed material will satisfactorily comply with your requirements. Should you need additional data or information, please let me know.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Robert L. Guest".

Robert L. Guest  
Vice President

RLG:ks

Enclosure

ARROW GAS COMPANY  
DISCHARGE PLANS  
LOCO HILLS UNDERGROUND PROPANE STORAGE  
EDDY COUNTY, NEW MEXICO

DESCRIPTION AND LOCATION OF PROPERTY

Arrow Gas Company operates three underground propane storage wells situated on 40.00 acres of land described as a tract of land included in NW $\frac{1}{4}$  SW $\frac{1}{4}$  of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. A drawing showing approximate property boundaries and indicating location of the following pertinent structures, wells, etc. is enclosed:

- a. Location of propane storage wells
- b. Location of salt water wells used as water supply source for removing propane.
- c. Location of earthen reservoirs used to contain brine water removed from propane storage wells when injecting propane.

All personalty located on the premises described above is owned by Arrow Gas Company. Premises are leased thru the New Mexico State Land Office under a five year lease agreement currently expiring on November 12, 1983.

DISCHARGE DESCRIPTION AND PLAN

Arrow Gas Company, in utilizing the three underground propane storage wells, periodically injects propane (HD5) into the three salt dome caverns. Water forced out (discharge) is pumped into one of two above ground earthen reservoirs.

One reservoir is approximately 120' X 225'. The second is approximately 175' X 225'. Both reservoirs are approximately six feet deep in the center and earth is mounded three to four foot high at the perimeters. The mounded walls of the perimeter are approximately four foot wide at the top and the base is in excess of eight foot wide. The reservoirs are lined with polyurethane plastic sheeting of six mills thickness.

The water discharged into the earthen reservoirs during propane injection is currently being tested, but is known to be totally saturated with chloride salts. Total gallons of discharge per year will be three to four million gallons. The rate of flow is between 180 and 200 gallons per minute. Generally all discharge is during the months of May thru October. Evaporation from reservoirs is unknown.

Water supply for injection into propane storage wells to facilitate propane withdrawal into a series of pressurized vessels is secured from three separate water wells. Although this water contains less chloride than the discharge described above, all three wells are extremely salty.



The Water Resource Division of the Natural Resources Department of the State of New Mexico tested the water from these wells for us. Test results show a chloride content of 60,680 parts per million which is greatly in excess of ground water contaminant levels the regulations are seeking to protect.

These wells are 150 feet deep with water level currently at 75 feet. These wells, with the chloride content shown above, are the most likely concentration of ground water to be contaminated by our propane well discharges. Location of water wells in relations to propane storage wells, and earthen reservoirs is also indicated on the attached drawing.

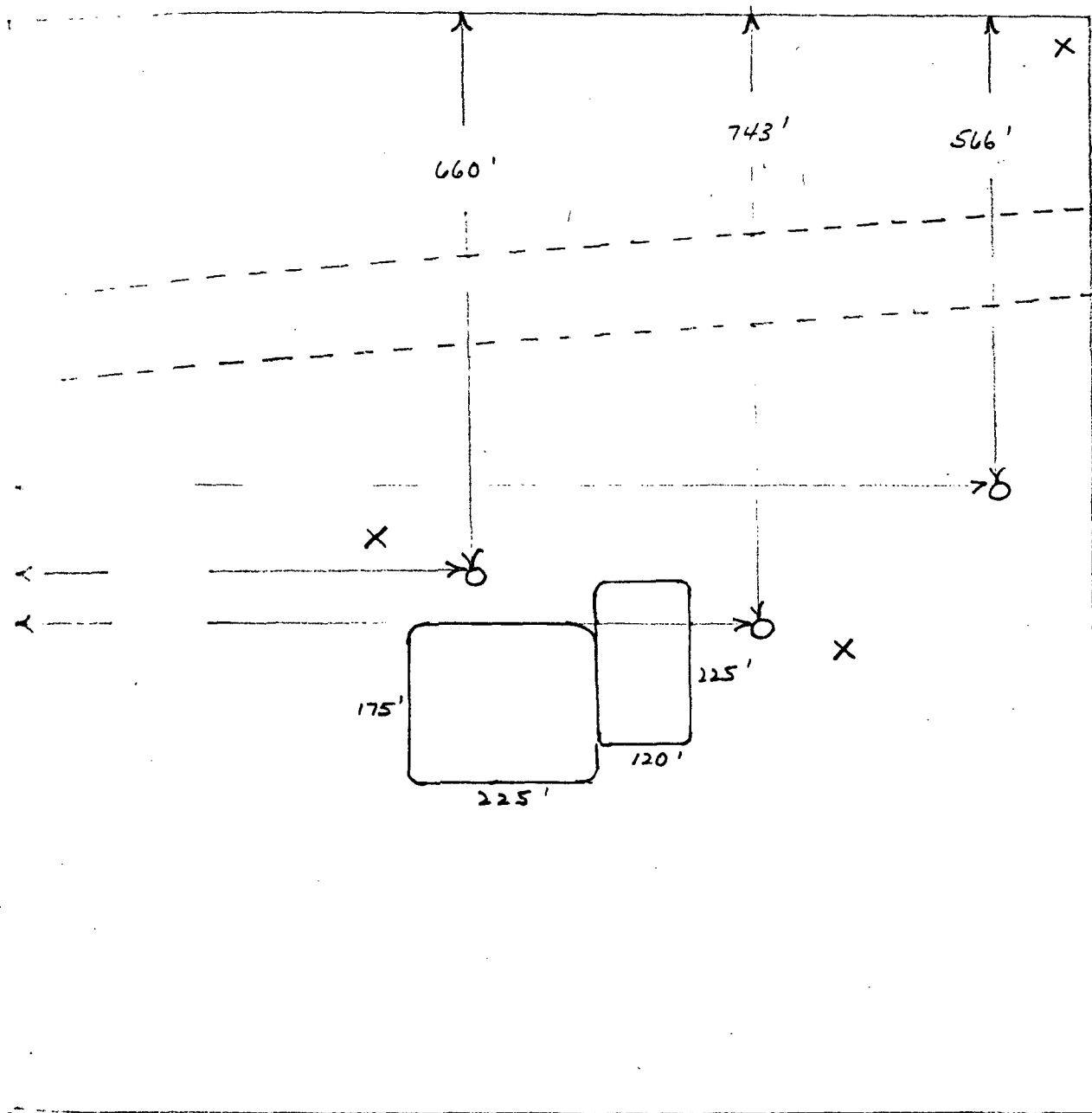
Flooding potential of the site including the earthen reservoirs is deemed unlikely and remote. A terrain map showing the elevation changes for all of Section 22 is included also. The general location of our property is indicated in red.

Water from water wells, as well as discharge water from propane wells is readily available for testing, sampling, and monitoring at the operation site. To our knowledge, there are no natural bodies of water, or live watercourses within one mile of the discharge site.

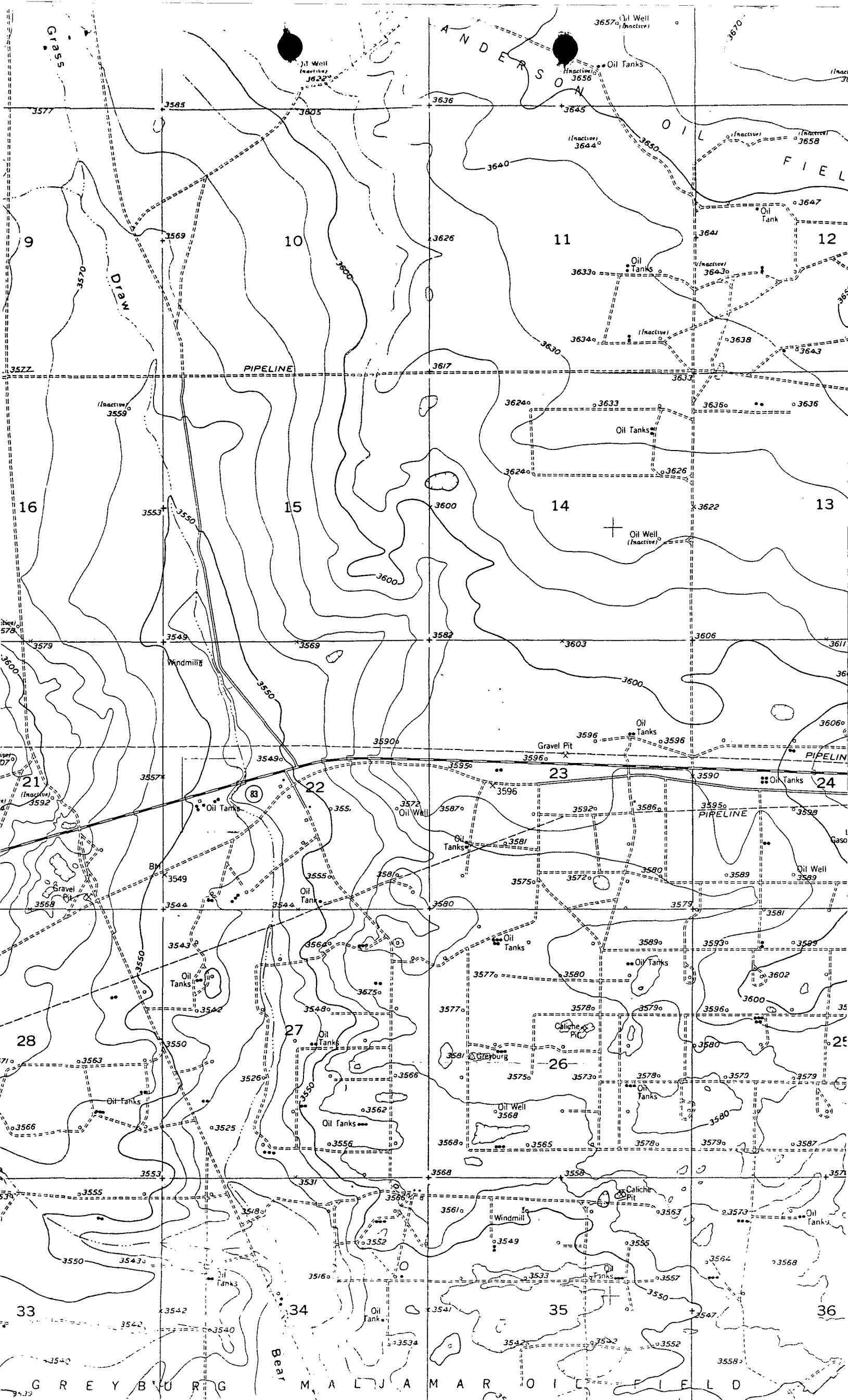
#### ADDITIONAL EFFLUENT DISCHARGE

The only other discharge described in the regulations at this site is effluent discharged from a sewage system into a septic tank and leach field. This effluent is considerably below 2,000 gallons per day and is exempt from discharge plan requirements under Section 3-105 Part B.

L HILLS - UNDERGROUND STORAGE  
 (Not to exact scale)  
 NW $\frac{1}{4}$ -SW $\frac{1}{4}$  Sec. 22  
 1" equals approx. 200'



- U.S. 82 Highway Right of Way
- Water Wells
- Propane Storage Wells





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

April 7, 1981

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

Arrow Gas Co.  
P. O. Box 1777  
Roswell, New Mexico 88201

Re: Request for Discharge Plans

Gentlemen:

Under provisions of the regulations of the Water Quality Control Commission you are hereby notified that the filing of discharge plans for Arrow's Loco Hills Plant (Eddy County) is required. Discharge plans are defined in Section 1-101.1 of the regulations and a copy of the regulations is enclosed for your convenience.

These plans should cover all discharge of effluent at the plant sites or adjacent to the plant sites. Section 3-106A. of the regulations requires submittal of the discharge plans within 120 days of receipt of this notice unless an extension of this time period is sought and approved.

The discharge plans should be prepared in accordance with Part 3 of the Regulations. Due to a recent court decision references to "toxic pollutants" may be ignored.

If there are any questions on this matter, please do not hesitate to call me or Oscar Simpson at 827-3260. Mr. Simpson has been assigned responsibility for review of all discharge.

Very truly yours,

JOE D. RAMEY  
Division Director

JDR/OS/og  
enc.

cc: Oil Conservation Division - Hobbs

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

SANTA FE, NEW MEXICO

PUBLISHED  
4/27/81 (HOBBS)  
4/25/81 (ALB)

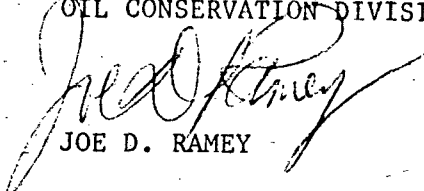
Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P. O. Box 2088, State Land Office Building, Santa Fe, New Mexico 87501, telephone (505) 827-3260.

WARREN PETROLEUM COMPANY, Eunice Plant 161, P. O. Box 1197, Eunice, New Mexico, also P. O. Box 1598, Tulsa, Oklahoma, 74102, proposes to discharge all liquid waste water associated with the plant into metal holding tanks located on their property and then inject the waste water into a salt water disposal well (SWD #1) located next to the metal tanks. The well is located in the SE/4 NE/4 of Section 3, Township 22 South, Range 37 East, Lea County, New Mexico. Injection will be into the San Andres formation adjacent to the Eunice-San Andres Pool. The Eunice Plant plans to inject 45,000 gallons per day of liquid waste with a total dissolved solids content of 3600 parts per million. The applicant states that no ground water will be affected.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at  
Santa Fe, New Mexico, on this 20th day of April, 1981.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

  
JOE D. RAMEY

Director

S E A L

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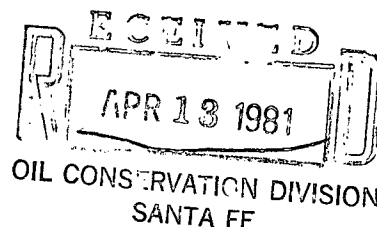
# Warren Petroleum Company

MANUFACTURING DEPARTMENT

April 8, 1981

P. O. Box 1589  
Tulsa, Oklahoma 74102

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501



Attention: Mr. Joe D. Ramey, Division Director

Gentlemen:

In regard to your letter dated February 12, 1981, regarding the Warren Petroleum Eunice Plant (3-T22S-37E), Warren Petroleum is submitting the following formal wastewater discharge plan.

The liquid waste from the plant is disposed of through an injection well located just south of the plant (see attached map). The well is routinely inspected by the Oil Conservation Division of the New Mexico Energy and Minerals Department. The well has been designated SWD-1 and has the following location as taken from an August 20, 1979 division inspection sheet:

Unit Letter H, 2,255 feet from the north line and 908 feet  
from the east line, Section 3, Township 22 South, Range 37  
East

The injection well ultimately receives all the liquid waste from the plant. All waste streams are piped directly to the metal injection well storage tank.

Originally, a retention pond was used to cool the boiler blowdown before it went to the metal injection well storage tank. This pond will be eliminated. New piping has been installed to comingle the boiler blowdown with the cooling tower blowdown. In this way all waste water streams will be piped directly to the storage tank and from there into the injection well. The piping from the boiler to the retention pond will be removed, and the water in the pond will be drained into the injection well. An attached map shows the old and new piping.

In summary, all liquid waste water from the plant including cooling tower blowdown, plant runoff, brine from the Zeolite softener, boiler blowdown, inlet scrubber water, compressor (interstate scrubber) condensate water, and water



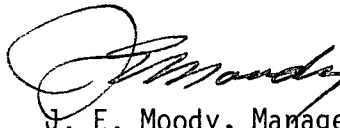
A DIVISION OF GULF OIL CORPORATION

April 8, 1981

from the dehydrator are disposed of through the injection well which is annually inspected by the Oil Conservation Division of the New Mexico Energy and Minerals Department. The well has an injection rate of 45,000 gallons per day. The total dissolved solids of the water going into the well is 3600 parts per million.

We hope that this plan meets with your approval. Should you have any questions, please feel free to call Lynn Reed of this office or me.

Sincerely,

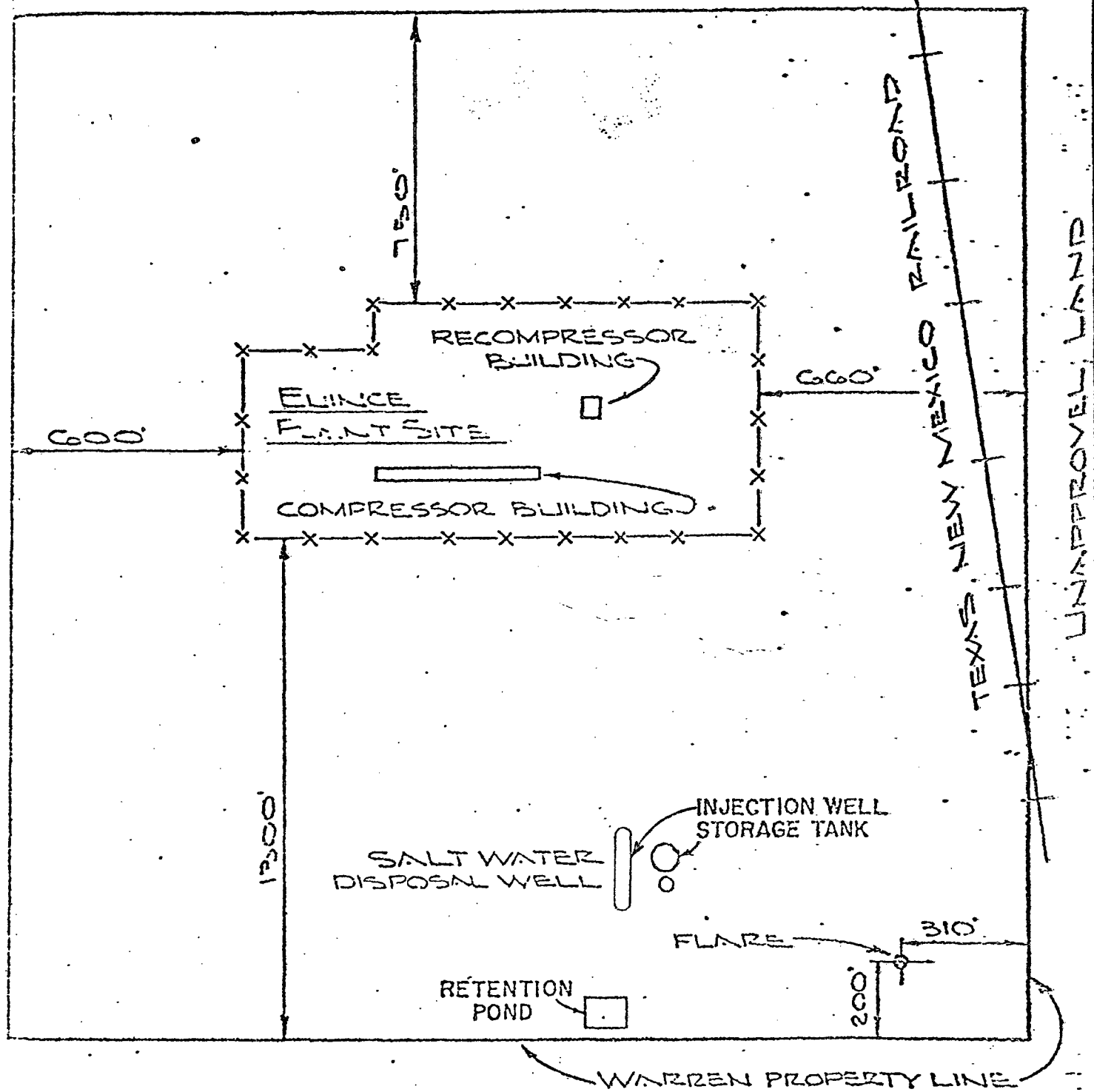
A handwritten signature in cursive script, appearing to read "J. E. Moody".

J. E. Moody, Manager  
Environmental and Services

DFJ:cs1

Attachments





## UNAPPROVED LAND

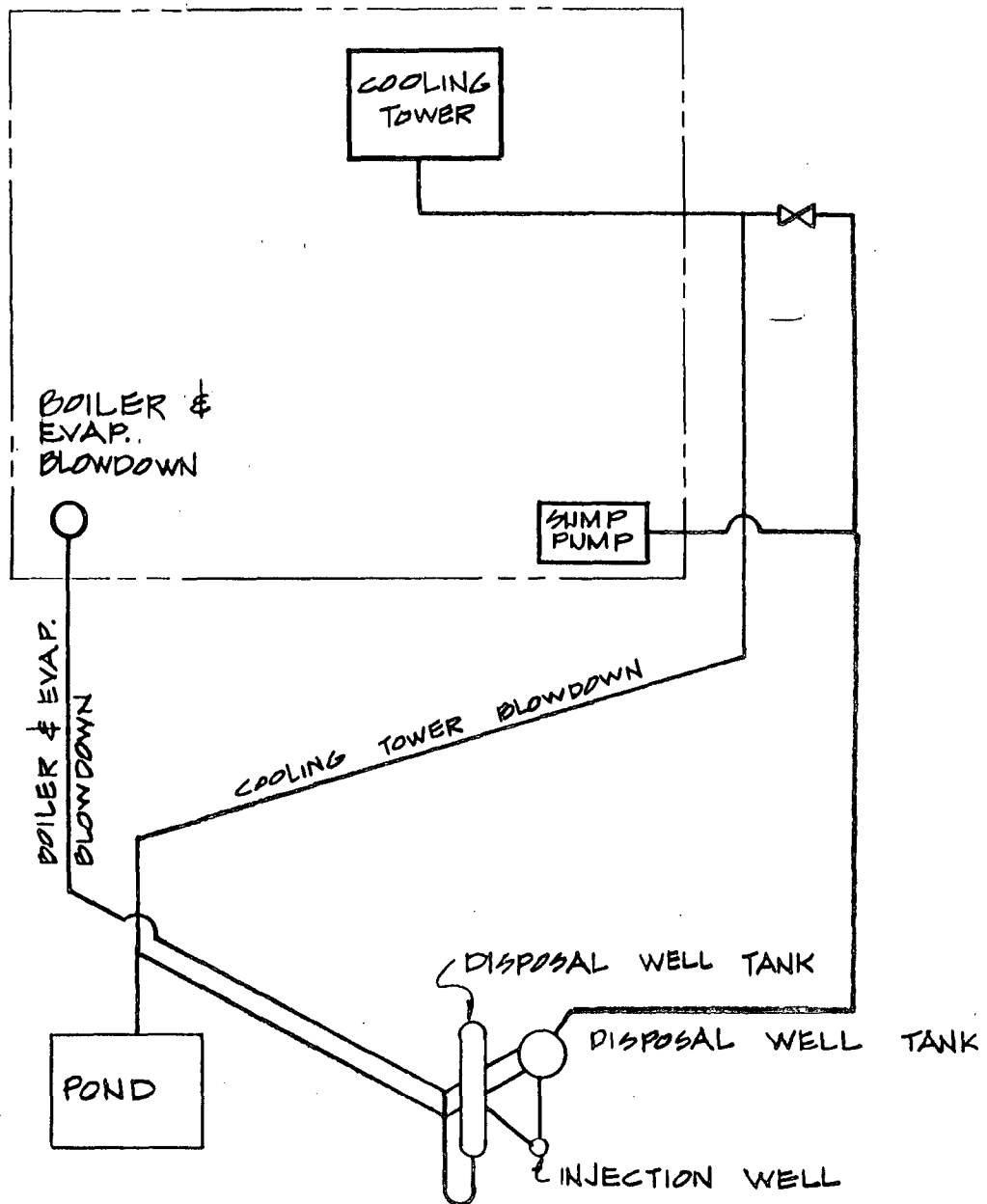
N.E. 1/4 SEC. 3, T22S, R37E

REVISIONS	BY	DATE	CHK	APPR	ISSUED CONST.		NO. OF UNITS REQUIRED THUS	WO-AFE NO.
					DATE	BY	WARREN PETROLEUM CO. TULSA, OKLAHOMA <small>R.W.P.C.-39</small>	
							ELINCE PLANT SITE	



# LEGEND

- INDICATES EXIST. LINES
- INDICATES NEW LINES
- INDICATES DEAD LINES



NO.	REVISIONS	BY	DATE	CHK.	APPR.	ISSUED CONST.		NO. OF UNITS REQUIRED THUS	WO-AFE NO.
						DATE	BY	<b>WARREN PETROLEUM COMPANY</b> TULSA, OKLAHOMA      GULF 82341	
								<b>COOLING TOWER AND BOILER</b> <b>BLOWDOWN PIPING</b> <b>PLT. 161</b>	
								DRAWN <del>HORSE</del>	DATE 4-8-81
								CHECKED	DATE
								APPROVED	DATE
								SCALE —	
								DRAWING NO.	



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

February 12, 1981

Mr. J. E. Moody  
Warren Petroleum Company  
Box 1589  
Tulsa, Oklahoma 74102

Dear Mr. Moody:

Your discharge plan, as outlined in your letter of February 2, 1981, is certainly approvable.

Please submit a formal discharge plan so that we can proceed with our process toward final approval.

Yours very truly,

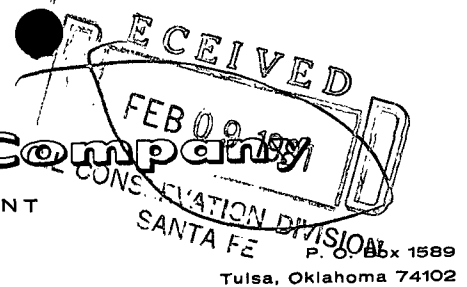
JOE D. RAMEY  
Director

JDR/fd

# Warren Petroleum Company

MANUFACTURING DEPARTMENT

February 2, 1981



State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey, Division Director

Re: Eunice Discharge Plan

Gentlemen:

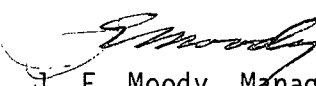
Upon receipt of your November 12, 1980 letter, Warren re-evaluated the Eunice Discharge Plan and has found that we can eliminate the retention pond that is used to cool the boiler blowdown.

We are in the process of installing new piping for the boiler blowdown to commingle with the cooling tower blowdown. In this way all waste water streams will be piped directly to the metal injection well storage (surge) tank and from there into the injection well.

We are removing the piping from the boiler to the retention pond. We are also draining the water in the pond into the injection well.

We hope that this plan meets with your approval. Should you have any questions, please feel free to call Lynn Reed of this office or me.

Sincerely,

  
J. E. Moody, Manager  
Environmental and Services

JEM:LTR:ds



A DIVISION OF GULF OIL CORPORATION

xc: JE Moody

Submit

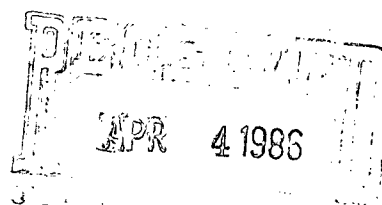
RHB

FROM B. R. Terrell  
TO R. H. Brotherton

AT Eunice  
AT Tulsa

IN REPLY  
REFER TO

DATE 1-28-81



PLANT WASTE WATER

For your information, we are discontinuing putting plant waste water (primarily boiler blow down) into the brine pit. The water now in the pit is being pumped into the injection well. When the pit is empty, we will remove all lines from the plant to the pit so there is no way plant waste water can get into the pit.

Since the pit appears to be in good condition, we will leave it as is, in in-active condition.

*B.R. Terrell*

BRT:mc

RHB

JAN 31 1981



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

November 12, 1980

Mr. J. E. Moody  
Warren Petroleum Company  
P. O. Box 1589  
Tulsa, Oklahoma 74102

Re: Eunice Plant

Dear Mr. Moody:

The Oil Conservation Division has received and reviewed the discharge plan submitted for the Eunice Plant.

We are very concerned about the waste water pond. In your discharge plan you have stated "the pond has not shown any signs of leaking." There was no indication of any monitoring wells or any other devices to detect leaks from this pond. The discharge plan has to include a means to detect leaks to be acceptable to the Oil Conservation Division.

If you have any questions, please don't hesitate to call me or Thomas Parkhill at 827-3260.

Yours very truly,

JOE D. RAMEY  
Director

JDR/TP/fd

cc: Oil Conservation Division - Hobbs

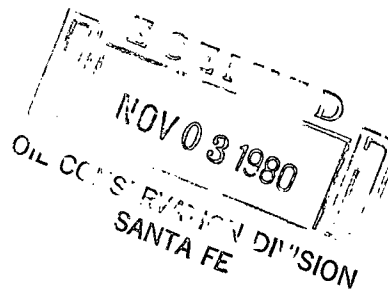
# Warren Petroleum Company

MANUFACTURING DEPARTMENT

October 27, 1980

P. O. Box 1589  
Tulsa, Oklahoma 74102

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501



Attention: Mr. Joe D. Ramey, Division Director

Gentlemen:

Please find attached the completed discharge plans for the Warren Petroleum Eunice Plant (3-T22S-37E) and Saunders Plant (34-T145-33E) in Lea County, New Mexico.

These plans include the utilization of injection wells for the disposal of waste water from the plants. It has come to our attention very recently that the operators of the injection well at Saunders have not applied for a hazardous waste permit and are exempt from applying. Further study of the plan is therefore needed to evaluate other alternatives.

We would like to request an additional three months to review and develop new plans for the Saunders Plant.

Should you have questions, please feel free to contact Lynn Reed or me.

Sincerely,

J. E. Moody, Manager  
Environmental and Services

JEM:DFJ:ds

Attachments

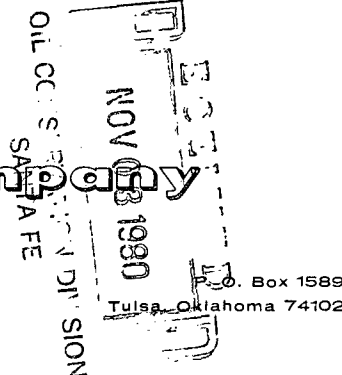


A DIVISION OF GULF OIL CORPORATION

# Warren Petroleum Company

MANUFACTURING DEPARTMENT

October 22, 1980



State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey, Division Director

Gentlemen:

In regards to your letter dated June 27, 1980, regarding the Warren Petroleum Eunice Plant (3-T22S-37E), Warren Petroleum is submitting the following wastewater discharge plan.

The liquid waste from the plant is disposed of through an injection well located just south of the plant (see attached map). The well is routinely inspected by the Oil Conservation Division of the New Mexico Energy and Minerals Department. The well has been designated SWD-1 and has the following location as taken from an August 20, 1979 division inspection sheet.

Unit Letter H, 2,255 feet from the north line and 908 feet from the east line, Section 3, Township 22 South, Range 37 East.

The injection well ultimately receives all the liquid waste from the plant. All waste streams except the boiler blowdown water are piped directly to the metal injection well storage tank (see attached map). A retention pond (see attached map) receives water from the boiler blowdown. Water in the pond is allowed to cool and then piped to the metal injection well storage tank. The pond is lined with two layers of 1/2" to 5/8" asphalt sheeting which has been coated with an asphalt-like material. The pond has not shown any signs of leaking. The water in the pond originates from local water wells or from the City of Eunice; the only chemicals added are phosphate and sulfite boiler treatment in concentrations of 20 to 40 milligrams per liter.

In summary, all liquid waste water from the plant including cooling tower blowdown, plant runoff, brine from the Zeolite softener, boiler blowdown, inlet scrubber water, compressor (interstate scrubber) condensate water, and water from the dehydrator are disposed of through the injection well which is annually inspected by the Oil Conservation Division of the New Mexico Energy and Minerals Department. Since all the waste water is disposed in an environmentally acceptable manner, which is already under your authority, Warren Petroleum feels that the operation is in compliance with the amended water quality control commission regulations as referred to in your letter of June 27, 1980.



A DIVISION OF GULF OIL CORPORATION

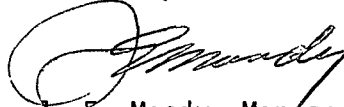
X



October 22, 1980

Should you have any questions, please feel free to contact Lynn Reed of this office or myself.

Sincerely,



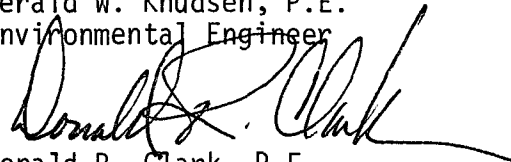
J. E. Moody, Manager  
Environmental and Services

JEM:ds

Reviewed by:

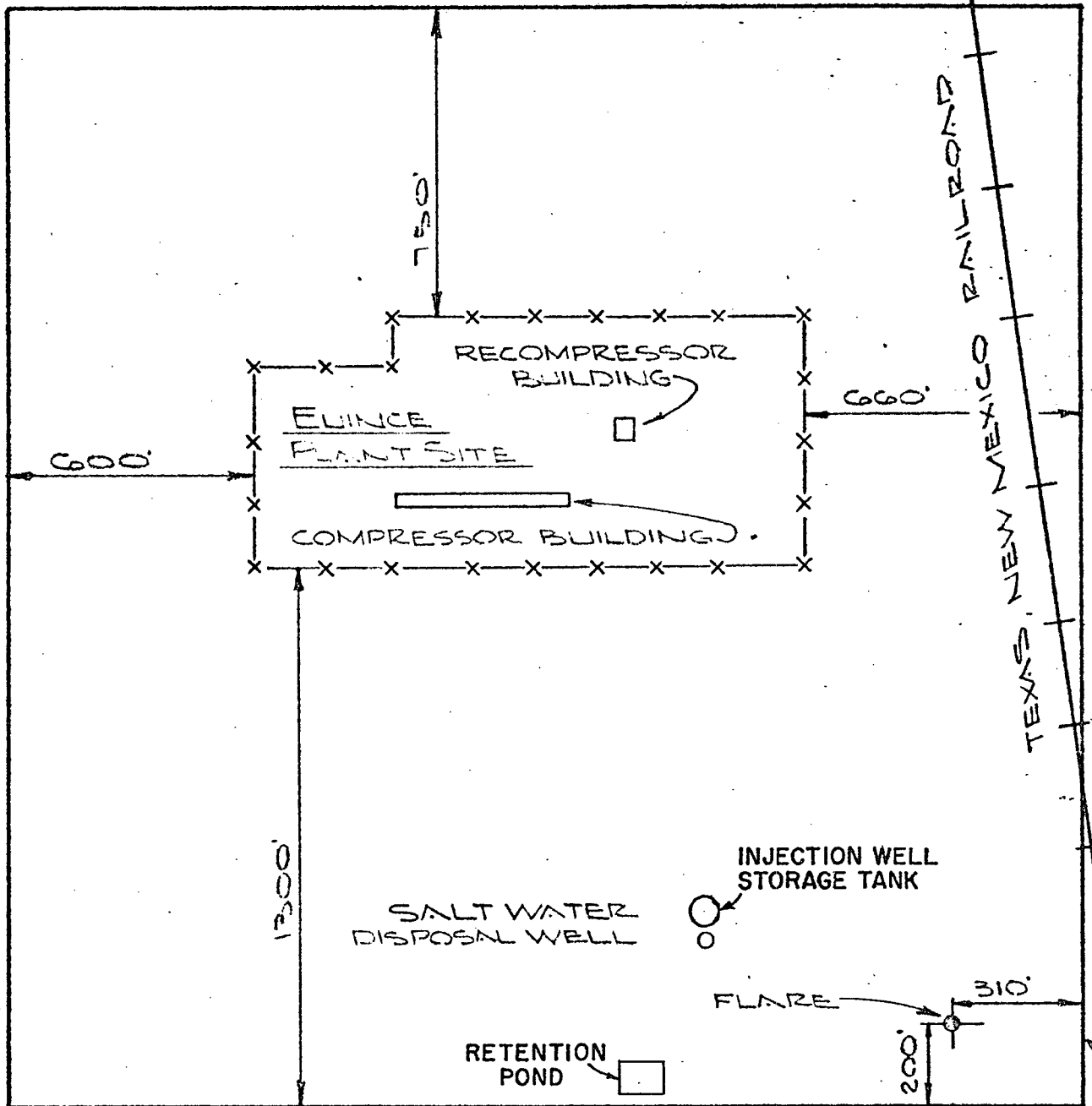


Gerald W. Knudsen, P.E.  
Environmental Engineer



Donald R. Clark, P.E.  
Principal Geotechnical Engineer  
F. M. FOX & ASSOCIATES, INC.





## UNAPPROVED LAND

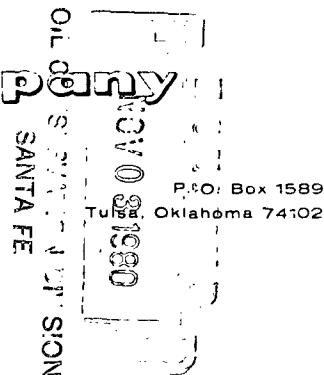
N.W. 1/4 SEC. 3, T22S, R37E

NO.	REVISIONS	BY	DATE	CHK	APPR	ISSUED CONST.		NO. OF UNITS REQUIRED THUS	WO-AFE NO.
						DATE	BY	<b>WARREN PETROLEUM CO. TULSA, OKLAHOMA</b>	
								<u>EUNICE PLANT SITE</u>	
								PLT. 161 EUNICE NEW MEXICO	
						DRAWN LP	DATE 4-75	SCALE 1" = 400'	
						CHECKED	DATE	DRAWING NO.	
						APPROVED	DATE	161-101	

# Warren Petroleum Company

MANUFACTURING DEPARTMENT

October 23, 1980



State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey, Division Director

Gentlemen:

In regards to your letter dated June 27, 1980, regarding the Warren Petroleum Saunders Plant (34-T14S-33E), Warren Petroleum is submitting the following wastewater discharge plans.

Presently, all waste water from the plant operations is being piped to two retention pond systems (see attached map). The ponds appear to be naturally lined with the bentonite from oil well formation water. Commercial liquid waste disposal companies remove the water from the ponds on a routine basis. The waste water from the plant includes cooling tower blowdown, plant runoff, brine from the Zeolite softener, boiler blowdown water, inlet scrubber water, compressor (interstate scrubber) condensate, and water from the dehydrator.

*FUTURE PLAN TO BE SUBMITTED  
G.W.K.*

Should you have questions, please feel free to contact Lynn Reed of this office or myself.

Reviewed by:

Gerald W. Knudsen, P. E.  
F. M. FOX & ASSOCIATES, INC.

Very truly yours,

J. E. Moody, Manager  
Environmental and Services

JEM:ds



NO.	REVISIONS	BY	DATE	CHK.	APPR.	ISSUED CONST.		NO. OF UNITS REQUIRED THUS	WO-AFE NO.
						DATE	BY	WARREN PETROLEUM COMPANY	
								TULSA, OKLAHOMA	
								GUS 82341	
								PLOT PLAN	
								PLT. 146 SAUNDERS LOVINGTON, NM.	
								DRAWN P.K.	DATE 10-16-80
								CHECKED	DATE
								APPROVED	DATE
								SCALE 4	
								DRAWING NO. 146-1001-0	

*Lynn CR*

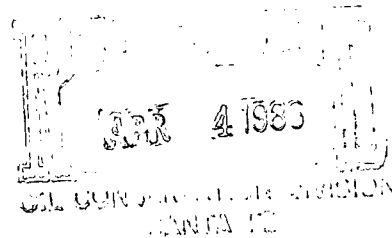
4 C. D. Flowers AT Eunice IN REPLY  
TO R. H. Brotherton AT Tulsa REFER TO  
DATE September 18, 1980

Disposal Well - Oil Conservation Survey

On Thursday, September 17, 1980, Mr. Eddie W. Seay, field representative of the State of New Mexico Energy and Minerals Department Oil Conservation Division, inspected our water disposal well. Mr. Seay stated that everything appears normal. He said there would not be a formal report since he did not find any problems.

The repairs made on this well last year are satisfactory. According to the attached letter the Oil Conservation Division will be making an inspection like this every year.

*Forrest C Noah*



CDF:mc  
Attachment

Xc: John E. Moody

ENVIRONMENTAL  
SEP 22 1980



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

June 27, 1980

Mr. J. E. Moody  
Warren Petroleum Company  
P. O. Box 1589  
Tulsa, Oklahoma 74102

Re: Request for Discharge Plans

Dear Mr. Moody:

Under provisions of the regulations of the Water Quality Control Commission you are hereby notified that the filing of discharge plans for Warren's Saunders Plant (34-T14S-33E) and Eunice Plant (3-T22S-37E) is required. Discharge plans are defined in Section 1-101.1 of the regulations and a copy of the regulations is enclosed for your convenience.

These plans should cover all discharge of effluent at the plant sites or adjacent to the plant sites. Section 3-106A. of the regulations requires submittal of the discharge plans within 120 days of receipt of this notice unless an extension of this time period is sought and approved.

The discharge plans should be prepared in accordance with Part 3 of the Regulations. Due to a recent court decision references to "toxic pollutants" may be ignored.

If there are any questions on this matter, please do not hesitate to call me or Thomas Parkhill at 827-3260. Mr. Parkhill has been assigned responsibility for review of all discharge.

Yours very truly,

JOE D. RAMEY  
Division Director

JDR/TP/og

cc: Oil Conservation Division - Hobbs

Warren Petroleum Co, P. O. Box 966, Lovington

Warren Petroleum Co., P. O. Box 1197, Eunice, N. Mex.



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

*scw*

August 11, 1980

RUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88240  
(505) 393-6161

Warren Petroleum Corporation  
Box 1197  
Eunice, NM 88231

APR 4 1980

SUBJECT: CASING LEAK SURVEY

Gentlemen:

In order to comply with the Underground Injection Control Section of the Federal Safe Drinking Water Act of 1974, which the Oil Conservation Division administers, the Division shall survey all salt water disposal and water injection wells.

The wells involved in this survey shall be readied in the manner and on the date herein outlined.

- (1) All cellars shall be dug in such a manner as to expose outlets of bradenheads from the first string of pipe cemented in the well and all subsequent heads to and including the tubing head, unless Form C-103 has been filed showing satisfactory connections below ground level and proper identification above ground level.
- (2) One opening from all bradenheads shall be connected to a second valve above the surface. This second valve must be closed, except the tubing need not be shutin.
- (3) Operators shall furnish connections and personnel to assist in the opening of valves. Accurate pressure gauges shall be furnished to record pressures.
- (4) If unusual mechanical difficulties or workover operations make it impossible for wells to meet the time set on the Test Schedule, the test may be re-scheduled after these wells are inspected by Division Representative. The Division shall be notified at least forty-eight hours prior to test time in the event such conditions should occur.
- (5) The Division requests that company personnel be present at the time and place designated on the attached Test Schedule. A Division representative will meet company personnel as scheduled and proceed to inspect all wells in a logical order. If the operator or his representative cannot be present, the Division shall be notified in advance.
- (6) For further information, please contact the Hobbs District Office, phone (505)-393-6161, Hobbs, New Mexico.

Very truly yours,

OIL CONSERVATION DIVISION

*Leslie A. Clements*  
Leslie A. Clements  
Oil & Gas Inspector

LAC/ed  
Attachment

CASING LEAK SURVEY SCHEDULE

OPERATOR: WARREN PETROLEUM CORP.

MEETING PLACE & TIME: Meet OCD Rep. at 10:30 a.m. Sept.17, 1980 at well listed below.

WELLS TO BE TESTED LISTED BELOW:

<u>LEASE NAME</u>	<u>WELL #</u>	<u>LOCATION</u>
Eunice Plant SWD	#1	Unit H, Sec. 3, T22, R37



OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

DATE RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease  
State ☐ Fee ☒  
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Disposal Well	7. Unit Agreement Name
2. Name of Operator Warren Petroleum Corporation	8. Farm or Lease Name Eunice Plant No. 161
3. Address of Operator Box 1197, Eunice, New Mexico	9. Well No. SWD #1
4. Location of Well UNIT LETTER H 2255 FEET FROM THE North LINE AND 908 FEET FROM THE East LINE, SECTION 3 TOWNSHIP 22-S RANGE 37-E N.M.P.M.	10. Field and Pool, or Wildcat San Andres
15. Elevation (Show whether DF, RT, CR, etc.)	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Pump 100 barrels fresh water down 7" casing.  
Rig up pulling unit - move in blow out preventor - pull out of hole w/4 1/2" tubing.  
Run 6 1/4" bit and scraper on 2 7/8" rental tubing to 4100 ft. +. Pull out of hole.  
Run 7" retrievable Bridge Plug on 2 7/8" tubing to 3000 ft. +.  
Fill 7" casing w/10# brine and pressure test to 500#. If test is okay, cap retrievable bridge plug w/3 sacks of 10-20 sand. Pull out of hole.  
Perforate 7" casing w/4 1/2" jet hole @ approximately 2400'.  
Break circulation up 7" casing and out 9 5/8 casing w/10# brine water.  
Run 7" cement retainer on 2 7/8" tubing and set @ 2300'+. Establishing rate through squeeze hole. Pump required cement volume to circulate cement out 7"-9 5/8" casing annulus. Close in 9 5/8" casing and squeeze to approximately 500#. Pull out of retainer and reverse out. Pull out of hole - wait on cement 24 hours.  
Run 6 1/4" bit - 4 3/4" OD. Drill collar on 2 7/8" tubing. Drill out cement retainer and cement to below squeezed perforations - Pressure test to 300#. Pull out of hole.  
(See attached sheet for continuation)

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED C. D. Flowers TITLE Asst. Manager DATE 8-15-79  
APPROVED BY [Signature] SUPERVISOR DISTRICT 1 DATE AUG 20 1979  
CONDITIONS OF APPROVAL, IF ANY:

(Continuation)

Run retrieving base - wash sand off of retrievable bridge plug - pick up and pull out of hole.

Run 7" retrievable nickle plated packer on injection tubing to approximately 4100'. Load casing w/treated water and test packer to 300#.

Return well to disposal system.

Will advise as soon as complete. Estimated completion date August 26, 1979.

UNITED STATES	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION  
**REQUEST FOR ALLOWABLE**  
**AND**  
**AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104  
 Supersedes Old C-104 and C-110  
 Effective 1-1-65

APR 10 1978

Oil Conservation Commission

Operator **Gulf Oil Corporation**

Address **Pittsburgh, Pa.**

Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well	<input type="checkbox"/>	Change in Transporter of:	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>
Change in Ownership	<input checked="" type="checkbox"/>	Dry Gas	<input type="checkbox"/>
		Casinghead Gas	<input type="checkbox"/>
		Condensate	<input type="checkbox"/>

If change of ownership give name and address of previous owner **Warren Petroleum Co. - Division of Gulf Oil Corporation**  
**P. O. Box 1197 Eunice, New Mexico 88231**

DESCRIPTION OF WELL AND LEASE		Lease No.	
Lease Name <b>Eunice Plant No. 161</b>	Well No. <b>San Anders</b>	Kind of Lease State, Federal or Fee	
Location			
Unit Letter <b>H</b>	: <b>2255</b> Feet From The <b>N</b> Line and <b>908</b> Feet From The <b>E</b>		
Line of Section <b>3</b>	Township <b>22S</b>	Range <b>37E</b>	County <b>Lea</b>

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS		Address (Give address to which approved copy of this form is to be sent)	
Name of Authorized Transporter of Oil <input type="checkbox"/>	or Condensate <input type="checkbox"/>		
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/>	or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.
			Ege.
			Is gas actually connected? When

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA		Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Some Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.										
Elevations (DF, PAB, RT, CR, etc.)	Name of Producing Formation	Total Depth		P.B.T.D.							
Perforations		Top Oil/Gas Pay		Tubing Depth							
				Depth Casing Shoe							

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL** (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL		Actual Prod. Test-MCF/D	
Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate	

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE 12/29/76

*SWD*  
This is to notify the Oil Conservation Commission that connection for the purchase of gas from the WARREN PETROLEUM COMPANY, Eunice Plant,  
Operator Lease

N/A, N/A, 3-22S-37E, Plant Residue Gas,  
Well # Unit Letter S.T.R. Pool

GAS COMPANY OF NEW MEXICO, was made on 12/29/76.  
Name of Purchaser Date

GAS COMPANY OF NEW MEXICO  
PURCHASER

*James L. Liras*  
REPRESENTATIVE

Transmission Manager  
TITLE

cc: Oil Conservation Commission - Santa Fe

E. R. Corliss - Dallas

File

W. B. Richardson - Dallas

R. J. McCrary - Dallas

E. H. Redden - Carlsbad

Operator(s): Sun Oil Company (Delaware)  
Hillcrest 635 Office Park  
12850 Hillcrest Road  
Dallas, Texas 75230

Warren Petroleum Company  
Division of Gulf Oil Corporation  
P. O. Box 1197  
Eunice, New Mexico 88213

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

HOERS OF SE. O. C. C.  
JUL 30 3 41 PM '68

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Disposal Well	7. Unit Agreement Name
2. Name of Operator Warren Petroleum Corporation	8. Farm or Lease Name Eunice Plant No. 161
3. Address of Operator Box 1107, Eunice, New Mexico	9. Well No. SMD #1
4. Location of Well UNIT LETTER <u>H</u> , <u>2255</u> FEET FROM THE <u>North</u> LINE AND <u>980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>3</u> TOWNSHIP <u>22-S</u> RANGE <u>37-E</u> NMPM.	10. Field and Pool, or Wildcat San Andres
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lee

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Drilled 8-3/4" hole to 4133'. Ran 131 joints, 4121' of 7" 23# J-55 ST2C casing set and cemented at 4131', insert float at 4101', with 175 sacks of Class C with 16% gel, 3% salt, .3% HBR-1 and 50 sacks of Class C Heat.\* WOC 7 hours. TS indicated TOC at 2485'. WOC total of 21 hours. Tested casing with 1225#, 30 minutes. OK.

Started drilling 6 1/2" hole at 4133' at 12:30 PM, July 28, 1968.

\* Total cubic feet = 532. Theoretical annular volume to base of salt = 265 cubic feet.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Ed Boland TITLE Area Production Manager DATE July 29, 1968

APPROVED BY Joe J. [Signature] TITLE Agent for Warren Petroleum Corporation DATE July 29, 1968

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

JUL 22 3 10 PM '68

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Disposal Well	7. Unit Agreement Name
2. Name of Operator Warren Petroleum Corporation	8. Farm or Lease Name Eunice Plant No. 161
3. Address of Operator Box 1197, Eunice, New Mexico	9. Well No. SWD #1
4. Location of Well UNIT LETTER H, 2255 FEET FROM THE North LINE AND 908 FEET FROM THE East LINE, SECTION 3 TOWNSHIP 22-S RANGE 37-E NMPM.	10. Field and Pool, or Wildcat San Andres
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Cactus Drilling Company spudded 12 1/2" surface hole at 6:00 PM, July 19, 1968. Drilled to 1202'. Ran 38 joints, 1185' of 9-5/8" 36# J-55 ST&C casing. Set and cemented at 1198' with 400 sacks of Class C cement with 4% gel and 2% Ca Cl2 and 150 sacks of Class C with 2% Ca Cl2. Cement circulated. WOC & NU over 18 hours. Tested casing with 1225#, 30 minutes, OK.

JUL 26 PM 1 11

Started drilling 8-3/4" hole at 1202' at 2:30 AM, July 22, 1968.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED CD Ireland TITLE Area Production Manager DATE July 22, 1968

APPROVED BY John W. Runyan TITLE Agent for Warren Petroleum Corporation DATE JUL 23 1968

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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LAND OFFICE	
OPERATOR	

Form C-105  
Revised 1-1-65

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

1a. TYPE OF WELL		7. Unit Agreement Name	
b. TYPE OF COMPLETION		8. Farm or Lease Name	
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____ NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <u>Water Injection</u>		Eunice Plant No. 161	
2. Name of Operator		9. Well No.	
Warren Petroleum Corporation		STD #1	
3. Address of Operator		10. Field and Pool, or Wildcat	
Box 1197, Eunice, New Mexico		San Andres	
4. Location of Well			
UNIT LETTER <u>E</u> LOCATED <u>2255'</u> FEET FROM THE <u>North</u> LINE AND <u>908</u> FEET FROM			
THE <u>East</u> LINE OF SEC. <u>3</u> TWP. <u>22-S</u> RGE. <u>37-E</u> NMPM		12. County	
		Lee	
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
7-15-68	7-30-68	3-2-68	
19. Elev. Casinghead	23. Intervals Drilled By		
	Rotary Tools <u>0 - 4900'</u> Cable Tools <u>--</u>		
20. Total Depth		22. If Multiple Compl., How Many	
4900'		--	
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made
4131' to 4900' (Injection Interval)			No
26. Type Electric and Other Logs Run			27. Was Well Cored
GR-Sonic			No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36	1198'	12-1/4"	550 sacks (Circulated)	
7"	23	1131'	9-3/4"	225 Sacks (Top at 2135')	
				(Total cubic feet = 532. Theoretical annular volume to base of salt = 265 cu ft.)	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					1-1/2"	4123'	None

31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
None				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				4131' to 4900'	10,000 gal of 15% HCl acid.

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	

35. List of Attachments		
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.		
SIGNED <u>CA Borland</u>	TITLE <u>Area Production Manager</u>	DATE <u>August 8, 1968</u>

Gulf Oil Corp. (Agent for Warren Pet Corp.)

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

### Southeastern New Mexico

### Northwestern New Mexico

T. Anhy	1715	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt		T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt		T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2404	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers		T. Devonian	T. Menefee	T. Madison
T. Queen	3278	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres	3025	T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinebry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Granite	T. Todilto	T.
T. Drinkard		T. Delaware Sand	T. Entrada	T.
T. Abo		T. Bone Springs	T. Wingate	T.
T. Wolfcamp		T.	T. Chinle	T.
T. Penn.		T.	T. Permian	T.
T. Cisco (Bough C)		T.	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1115		Red Beds & Sand				
	1135		Anhy				
	2352		Salt				
	2494		Anhy, Dolo & Salt				
	3925		Dolo, Anhy & Sand				
	4900		Dolo.				



WELL NAME AND NUMBER SWD #1

H9333 OFFICE O.C.C.

LOCATION 2255' FNL 908' FEL, Sec. 3-2237

(New Mexico give U.S.T. &amp; R; Texas give S.B.K., Sur. &amp; Cwp. when required)

OPERATOR GULF OIL CORPORATIONDRILLING CONTRACTOR Cactus Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
<u>200'</u>	<u>1/4</u>	<u>0.8800</u>	<u>0.8800</u>
<u>394'</u>	<u>1/2</u>	<u>1.6878</u>	<u>2.5678</u>
<u>588'</u>	<u>1/2</u>	<u>1.6878</u>	<u>4.2556</u>
<u>819'</u>	<u>3/4</u>	<u>3.0261</u>	<u>7.2817</u>
<u>1038'</u>	<u>1</u>	<u>3.8325</u>	<u>11.1142</u>
<u>1200'</u>	<u>3/4</u>	<u>2.1222</u>	<u>13.2364</u>
<u>1437'</u>	<u>1-1/4</u>	<u>5.1666</u>	<u>18.4030</u>
<u>1682'</u>	<u>1-1/4</u>	<u>5.3410</u>	<u>23.7480</u>
<u>1927'</u>	<u>1/2</u>	<u>2.1315</u>	<u>25.8755</u>
<u>2174'</u>	<u>3/4</u>	<u>3.2357</u>	<u>29.1112</u>
<u>2419'</u>	<u>1-1/4</u>	<u>5.3410</u>	<u>34.4522</u>
<u>2635'</u>	<u>1-1/4</u>	<u>4.7088</u>	<u>39.1610</u>
<u>2882'</u>	<u>1-1/2</u>	<u>6.4714</u>	<u>45.6324</u>
<u>3106'</u>	<u>1</u>	<u>3.9200</u>	<u>49.5524</u>
<u>3345'</u>	<u>1</u>	<u>4.1825</u>	<u>53.7349</u>
<u>3476'</u>	<u>1-1/2</u>	<u>3.4322</u>	<u>57.1671</u>
<u>3716'</u>	<u>1</u>	<u>4.2000</u>	<u>61.3671</u>
<u>3961'</u>	<u>1</u>	<u>4.2875</u>	<u>65.6546</u>
<u>4133'</u>	<u>1</u>	<u>3.0100</u>	<u>68.6646</u>
<u>4378'</u>	<u>3/4</u>	<u>3.2095</u>	<u>71.8741</u>
<u>4391'</u>	<u>3/4</u>	<u>0.4061</u>	<u>72.2802</u>
<u>4606'</u>	<u>1/2</u>	<u>1.8705</u>	<u>74.1507</u>
<u>4807'</u>	<u>3/4</u>	<u>2.6331</u>	<u>76.7838</u>
<u>4900'</u>	<u>3/4</u>	<u>1.2183</u>	<u>78.0021</u>

Drilling Contractor Cactus Drilling Co.By Bonnie Ramsey  
(Clerk)Subscribed and sworn to before me this 2 day of August, 1968My Commission Expires:  
My Commission Expires Feb. 6, 1969Clayton R. Burton  
Notary Public  
County, New Mexico

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 3794  
Order No. R-3446

APPLICATION OF GULF OIL CORPORATION  
FOR SALT WATER DISPOSAL, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 26, 1968,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 3rd day of July, 1968, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Gulf Oil Corporation, is the oper-  
ator of the Warren Petroleum Corporation Eunice Plant No. 161  
SWD Well No. 1, located 2255 feet from the North line and 908  
feet from the East line of Section 3, Township 22 South, Range  
37 East, NMPM, Eunice-San Andres Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the San Andres formation  
adjacent to the Eunice-San Andres Pool, with injection into the  
open hole interval from approximately 4100 feet to 4900 feet.

(4) That the injection should be accomplished through  
4 1/2-inch internally plastic-coated tubing; that the casing-  
tubing annulus should be filled with a hydrostatically balanced

CASE No. 3794  
Order No. R-3446

column of inert fluid; and that a pressure gauge should be attached to the annulus at the surface in order to determine leakage in the tubing.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to utilize its Warren Petroleum Corporation Eunice Plant No. 161 SWD Well No. 1, located 2255 feet from the North line and 908 feet from the East line of Section 3, Township 22 South, Range 37 East, NMPM, Eunice-San Andres Pool, Lea County, New Mexico, to dispose of produced salt water into the San Andres formation adjacent to the Eunice-San Andres Pool, injection to be accomplished through 4 1/2-inch tubing into the open hole interval from approximately 4100 feet to 4900 feet;

PROVIDED HOWEVER, that the tubing shall be internally plastic-coated; that the casing-tubing annulus shall be filled with a hydrostatically balanced column of inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the tubing.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION  
HUBBS OFFICE O.C.C.

MAY 22 3 37 PM '68

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease

STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Disposal Well SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Eunice Plant No. 161	
2. Name of Operator Warren Petroleum Corporation		9. Well No. SWD #1	
3. Address of Operator Box 1107, Eunice, New Mexico		10. Field and Pool, or Wildcat	
4. Location of Well UNIT LETTER H LOCATED 2255' FEET FROM THE North LINE AND 908 FEET FROM THE East LINE OF SEC. 3 TWP. 22-S RGE. 37-E NMPM		12. County Lea	
19. Proposed Depth 4900		19A. Formation San Andres	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Cactus Drilling Co.	22. Approx. Date Work will start When approved

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	36#	1100'	Circulate	
8-3/4"	7"	23#	4100'	Base of Salt	

THE COMMISSION MUST BE NOTIFIED  
24 HOURS PRIOR TO RUNNING CASING.

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,

EXPIRES 8-23-68

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed C. E. Mac Title Area Pet. Engineer, Gulf Oil. Date May 22, 1968  
Agent for Warren Pet. Corp.

APPROVED BY [Signature] TITLE AGENT DATE 5/22/68  
CONDITIONS OF APPROVAL, IF ANY:

An SWD Order must be obtained prior to using this well for injection purposes.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer corner of the Section

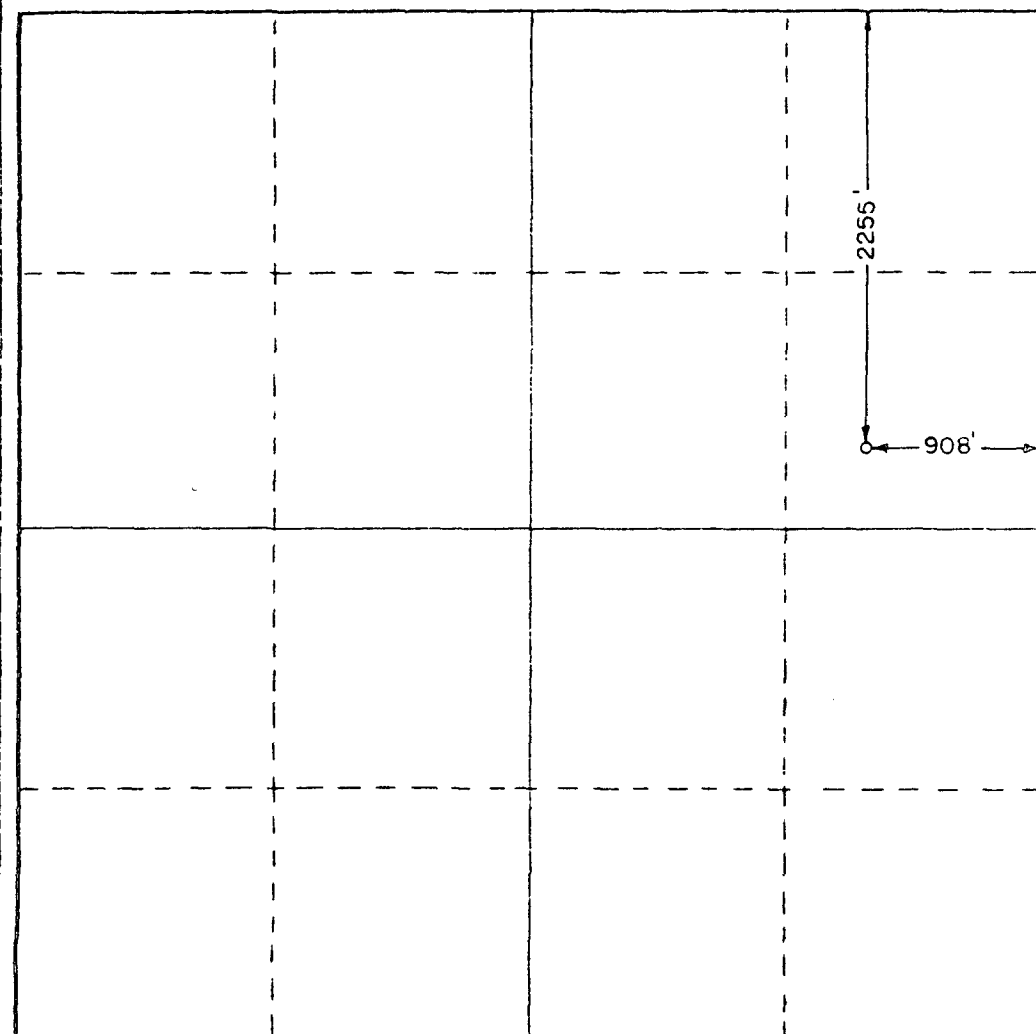
WARREN PETROLEUM CORP.			Lease EUNICE PLANT NO. 161		Well No. SWD-1
Section Letter H	Section 3	Township 22 SOUTH	Range 37 EAST	LEA	
Actual Footage Location of Well:					
2255 feet from the NORTH		line and 908 feet from the EAST		line	
Ground Level Elev.	Producing Formation San Andres		Pool		Dedicated Acreage: Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name C E Mac

Position  
Area Pet. Engineer, Gulf Oil  
Company

Agent for Warren Petroleum Corp.

Date  
May 22, 1968

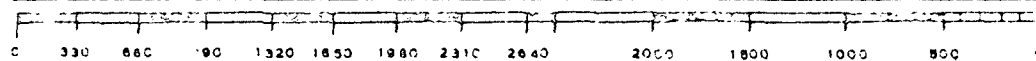
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
MAY 16, 1968

Registered Professional Engineer  
and/or Land Surveyor

John W West

676



COUNTY	LEA	FIELD Salt Water Disposal		STATE NM	30-005-22583
OPR	WARREN PETROLEUM CO.			MAP	
SWD-1 Eunice Plant No. 161					
Sec. 3, T-22-S, R-37-E				CO-ORD	
2255' FNL, 908' FEL of Sec.					
Spd 7-19-68					
Cmp 8-1-68		CLASS		EL	
		FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING					
9 5/8"	1198'	550			
7"	4131'	226			
LOGS EL GR RA IND HC A					
		TD 4900'			
San Andres OH 4131-4900' - SALT WATER DISPOSAL WELL					

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CONT.	Cactus	PROP DEPTH	4900'	TYPE	RT
DATE					

F.R. 5-31-68  
 PD 4900' - SA  
 Contr. - Cactus  
 8-5-68 TD 4900', COMPLETE  
 Acid (OH 4131-4900') 10,000 gals.

Eunice

# Warren Petroleum Company

MANUFACTURING DEPARTMENT

November 22, 1978

P. O. Box 1197  
Eunice, New Mexico 88231

*Lined*

Mr. Eddie Seay  
Oil Conservation Division  
P. O. Box 1980  
Hobbs, New Mexico 88240

Dear Mr. Seay:

Attached is a map of our location and the only pit we have is clearly marked. The pit contains brine water that is 60-80% NACL. We will run approximately one (1) million gallons of brine water through the pit each year.

The dimensions shown are from the top of a six (6) foot dike and the pit is eight (8) to ten (10) feet deep in the middle. The lining is made of 4'x8' asphalt sheets one-half (1/2) inch thick. The sheets are overlapped and sealed.

I hope this answers all your questions, but should you need more information please contact me.

Very truly yours,

*R. H. Brotherton*

R. H. Brotherton  
Plant Manager

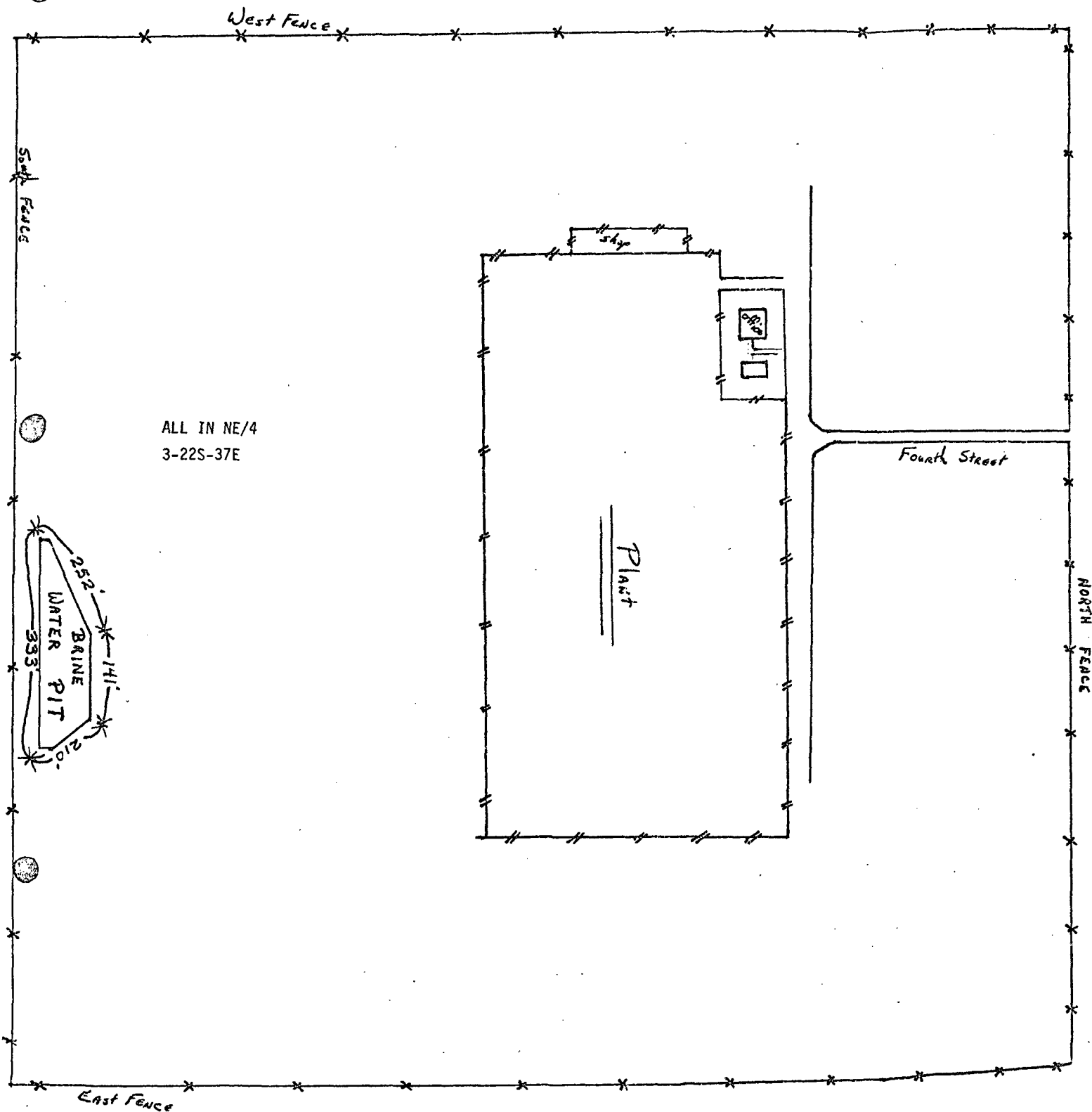
RHB:rs  
Attachment

*Posted*  
*1/25/79*  
*# 7*



A DIVISION OF GULF OIL CORPORATION

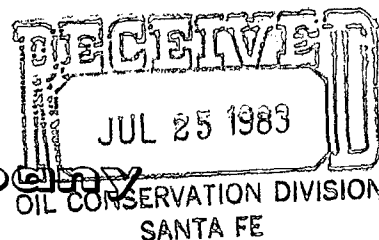
WARREN PETROLEUM COMPANY  
EUNICE, NEW MEXICO





# Warren Petroleum Company

MANUFACTURING DEPARTMENT



P. O. Box 1197  
Eunice, New Mexico 88231

July 8, 1983

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division

ATTN: Joe D. Ramey

SUBJECT: Inspection Report of June 7, 1983

Dear Sir:

In reference to your inspection of our Warren Petroleum Company, Eunice Plant #161, on May 2, 1983, the following corrective action has been taken:

- Item 1: The booster pump that transfers water to our zeolite treater has been elevated with a drain from the seals back into the brine pit.
- Item 2: A high level alarm was installed to alert the operating personnel before the tank could overflow.
- Item 3: An additional storage tank will be installed to contain any overflow currently being put into the open storage tanks. Also, a high level alarm will be installed on the holding tank.
- Item 4: The drain line being repaired at the time of the inspection was not properly contained. It will be standard procedure to dike any effluent from broken drain lines and a vacuum truck or other suitable mechanism will be used to remove the effluent.
- Item 5: All treating chemical and cleaning solvent tanks have been placed on cement pads with adequate curbing to contain any possible spill.
- Item 6: The chemical mixing stations have also been cement padded and are included in Item 5 above.
- Item 7A: The area referred to is surrounding the abandoned mineral seal oil tanks. These tanks have not been in service since 1975 and the ground accumulation has taken place over a period of 30+ years.



A DIVISION OF GULF OIL CORPORATION

Item 7B: The two (2) open oil tanks by the injection well will not be in service with the new storage tank addition. See Item 3 above.

Item 7C: The area mentioned is adjacent to our scrubber oil tanks. These tanks were lined with fiberglass approximately four months ago. In order to line these tanks, they were drained and cleaned out with a vacuum truck. Even though the area was temporarily diked and cleaned up, some evidence of ground discoloration is still visible. There will be diking installed around the scrubber oil tanks and the sump. We also will install a windbreak around the sump to insure adjacent area contamination will not occur during periods of high wind.

All of the items and actions mentioned above have been completed or are in the process of being implemented by July 31, 1983.

You have also requested that we address sludge and solid waste generation at our plant. Our solid waste generation is principally composed of waste paper and material from office use and cardboard from shipping boxes. The solid waste is held in 5 dumpsters with a total capacity of 420 cubic feet. These containers are emptied weekly by Waste Control of New Mexico, who disposes of the contents at the Hobbs Sanitary Landfill.

Incorporated in the solid waste are approximately 32 filters each week. These filters are dust filters and engine oil filters. We also have approximately 8 amine filter elements used per year.

As per your question on sludge generation, we do not generate an oily sludge at the present time. The only possible sludge that we might have would be the accumulation of sand and dirt in the basin of our cooling tower. If there are any questions or comments, please let me know.

Sincerely,

WARREN PETROLEUM COMPANY



R. O. Leinweber  
Plant Manager

ROL:kp

Xc: M. L. Ingram  
L. T. Reed

Attachment

June 16, 1982

Warren Petroleum Company

Eunice Plant, New Mexico  
Lea County

Facility: Gas processing plant (turbo expander) with a raw gas capacity of 100 MMcf. per day, processing gas from Eunice and other fields.  
Location is 3-22S-37E.

<u>Production:</u> (annual barrels)	<u>1979</u>	<u>1980</u>	<u>1981</u>
NGL Mix	3,201,652	3,089,762	3,019,739

The mix averages 51% ethane, 25% propane, 4% iso-butane, 9% normal butane, 11% pentanes plus.

Storage: Nominal, for pipeline input.

Loading: Pipeline: The raw mix is delivered into the Gulf pipeline for fractionation at Mont Belvieu.

Addresses: Warren Petroleum Company  
P.O. Box 1197  
Eunice, New Mexico 88231

Warren Petroleum Company  
P.O. Box 1589  
Tulsa, Oklahoma 74102

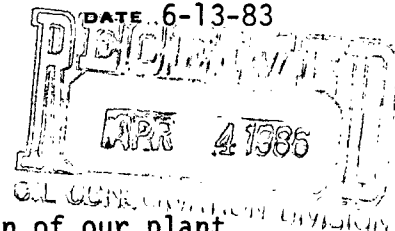
Telephone: (505) 394-2534

(918) 560-4000

FROM R. O. Leinweber AT Eunice  
TO M. L. Ingram AT Tulsa

IN REPLY  
REFER TO

DATE 6-13-83



OIL CONSERVATION COMMISSION INSPECTION REPORT

As a result of the Oil Conservation Division inspection of our plant May 2, 1983 the attached report was issued. The seven items requested by the OCD to be corrected within 30 days will be handled as follows:

- 1) The brine pump will be elevated with a drain from the seals back into the brine pit.
- 2) A high level alarm will be installed to prevent the overflowing of the effluent holding tank.
- 3) An additional storage tank will be installed to hold any overflow that is currently being put into the open storage tanks. Also a high level alarm will be installed on the holding tank.
- 4) The drain line was under repair at the time of the inspection. It will be standard procedure to immediately contain any effluent from broken drain lines by diking. A vacuum truck or other suitable mechanism will be employed to remove the effluent.
- 5) Treating chemicals and cleaning solvents will be placed on cement pads with additional diking to contain any possible spills.
- 6) Corrective measures for #6 are included in item #5.
- 7) The OCD was informed that we do not generate sludge. The cited past spills have been an accumulation of 30 plus years at this plant.
  - a) This refers to the oil product storage and mineral seal oil storage tanks. These tanks have not been in service since 1975, and the ground accumulation again is over a period of many years.
  - b) These items will be corrected and are included in #3.
  - c) The scrubber tanks were fiberglass lined four months ago. In the process these tanks were drained and cleaned out with a vacuum truck. Even though we diked and cleaned up this area some evidence of liquid on the ground was visible. This is what the OCD referred to in their letter. There will be diking installed around the scrubber oil tanks and the sump. Also we shall install a wind break around the sump.

Much of Item #7 recommending past spill clean up cannot be practically implemented without large removal and replacement of existing dirt.

The OCD request to address sludge and solid waste generation can be better handled through the joint cooperation of the Environmental Affairs Department and the Eunice Plant. I have talked to Lynn Reed about the above subjects and hope to have a solution to the OCD requests in the near future.

ROL:kd

xc: Lynn Reed

*Rep O Zimweh*



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

June 7, 1983

Warren Petroleum Company  
P.O. Box 1197  
Eunice, New Mexico 88231

Attention: B. R. Terrell

Re: Inspection of Warren  
Petroleum Company's  
Eunice Plant 161, Lea  
County, New Mexico

Dear Sir:

On May 2, 1983, Oil Conservation Division (OCD) staff inspected Warren Petroleum Company's Eunice Plant No. 161 to determine if plant effluent and disposal practices thereof were being performed in accordance to your discharge plan GWR-5. Overall, Warren's Eunice Plant No. 161 is one of the cleanest, environmentally, gas processing plants in the state. However, inspection of the plant revealed several problem areas that need to be corrected as soon as possible in order to be in compliance with your discharge plan. They are as follows:

- 1) Two booster pumps that transfer brine to and from the zeolite treaters have pump seals that are consistently failing or leaking and therefore allowing concentrated brine water to flow onto the ground surface.
- 2) The effluent holding tank next to the injection well has in the past, overflowed onto the ground surface.
- 3) The two open storage tanks next to the injection well that store slop oil generated from the plant processes have in the past frequently overflowed allowing oil to flow out onto the ground surface.
- 4) Waste water effluent was flowing from a broken effluent drainline. There was no evidence of diking or containment of the fluid or any

mechanism (vacuum truck) on hand to pick up the effluent.

- 5) Treatment chemicals and cleaning solvents stored throughout the plant have improper storage and containment facilities. Many locations show signs of spillage in and around each storage location.
- 6) Several chemical mixing stations where treatment chemicals are mixed have inadequate spill prevention or containment systems. As a result, chemicals are being spilled onto the ground surface.
- 7) Past spills or places of disposal from sludge, oil and/or effluent have not been cleaned up.

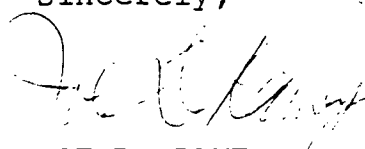
Locations such as:

- a) Spillage or leakage emanating from one or a number of silver colored storage tanks on the East side of the plant. (One such tank is coded as M.S. Oil.)
- b) Past spills from the two open slop oil storage tanks next to the injection well
- c) Apparent sludge disposal East of the Classifier or API Separator.

The Division requests that Warren Petroleum Company correct the above 7 items and any other situations that could cause or have the potential to effect ground water within 30 days from the date of this letter. In addition, Warren is requested to address sludge and solid waste generation at the Eunice Plant. Where and in what quantities is sludge and/or solid waste being generated at the Eunice Plant? Where and who is disposing of sludge and or solid waste that is generated at the Eunice Plant? Submit an analysis, if available, of the composition or chemical characteristics of the sludge and/or solid waste. Within 45 days from the date of this letter, Warren shall submit a report describing what corrective action or methods were used or will be implemented to resolve these problems.

If you have any questions concerning this matter, please call Oscar Simpson at (505) 827-5822.

Sincerely,

A handwritten signature in dark ink, appearing to read "Joe D. Ramey", is written over the typed name.

JOE D. RAMEY  
Director

JDR/OS/dp

cc: Hobbs District Office





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

*may 16, 1981*

*Wrong Date*

March 16, 1981

POST OFFICE BOX 2068  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 627-2434

WARREN PETROLEUM COMPANY  
BOX 1589  
TULSA, OKLAHOMA 74102

Getty Oil Company  
P. O. Box 3000  
Tulsa, Oklahoma 74102

Attention: ~~Mr.~~ Charles R. York *MR. J. E. MOODY*

Re: GWR- *5*

Gentlemen:

*WAST WATER*

The discharge plan submitted for the discharge of ~~boiler~~ *ALL LIQUID* and cooling tower waters from your Eunice Natural Gas Plant located in Section 3, Township 22 South, Range 37 East, Lea County, New Mexico, is hereby approved.

The discharge plan was submitted pursuant to section 3-106 of the Water Quality Control Commission regulations. It is approved pursuant to section 109. Please note subsections 3-109.E and 3-109.F which provide for possible future amendment of the plan. Please also be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

Yours very truly,

JOE D. RAMEY  
Director

JDR/fd

*CC: OIL CONSERVATION DIVISION-HOBOS*

EUNICE PLANT  
WARREN PETROLEUM COMPANY  
DIVISION OF GULF OIL CORPORATION  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

EUNICE PLANT

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

QUICK REFERENCE REPORTING/NOTIFICATION PROCEDURES

## QUICK REFERENCE DOCUMENT

### SPILL CONTAINMENT AND NOTIFICATION PROCEDURES

If a spill occurs, the flow should be stopped and help acquired, if necessary. Contact Plant Manager or alternates if he is not available. Contain the spill using procedures in this plan. Refer to reporting requirements after spill cleanup. These procedures directly follow.

#### Contacts

R. O. Leinweber.....	(505) 394-2534
	(505) 392-6616
B. L. Lord.....	(505) 394-2928
M. L. Ingram.....	(918) 560-4060 or
	(918) 494-0037
D. E. Todd.....	(918) 560-4052 or
	(918) 494-8779
L. T. Reed.....	(918) 560-4119 or
	(918) 663-3397

#### Directed Contacts

National Response Center.....	(800) 424-8802
Eighth Coast Guard District Duty Officer.....	(504) 589-6225
EPA Region VI.....	(214) 767-2720
Emergency Response (EPA Region VI).....	(214) 767-2666
New Mexico Oil Conservation Division	
Santa Fe Office.....	(505) 827-5800
Hobbs District Office.....	(505) 393-6161
New Mexico Environmental Improvement Division	
Santa Fe Office.....	(505) 984-0200
Carlsbad District Office.....	(505) 887-3436 or
	(505) 885-9023
New Mexico State Corporation Commission	
Pipeline Division/Santa Fe.....	(505) 827-4497

#### Miscellaneous Contacts

Fire Department.....	(505) 394-2111
Ambulance.....	(505) 394-2112
Hospital.....	(505) 392-6581
Police.....	(505) 394-2112
State Police.....	(505) 398-5225
Equipment/Disposal Services.....	(505) 394-2581 (vacuum truck)

L. L. Johnson  
Environmental Affairs

AT Tulsa

IN REPLY  
REFER TO

R. O. Leinweber

AT Eunice

DATE 5/18/83

Re:

Salt Water Disposal Well (SWD-1) - State of New Mexico,  
Energy and Minerals Department - Oil Conservation Division -  
Rule 116 - Notification of Fire, Breaks, Spills and Blowouts

Rex, please add the enclosed information regarding the subject Rule to the Eunice Formal Waste Water Discharge Plan (4/8/81) and Spill Prevention Control and Countermeasure (SPCC) Plan (certified 7/29/82).

*Linda Johnson*

LLJ:de  
Enclosure

cc: R. H. Brotherton

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

TONEY ANAYA  
GOVERNOR

PAUL BIDERMAN  
SECRETARY

OIL CONSERVATION COMMISSION

LAND COMMISSIONER  
JIM BACA, MEMBER

STATE PETROLEUM ENGINEER  
JOE D. RAMEY, MEMBER AND  
DIRECTOR, OIL CONSERVATION  
DIVISION

ED KELLEY  
DIRECTOR, MINING  
AND MINERALS  
DIVISION AND MEMBER

---

OIL CONSERVATION DIVISION

PRINCIPAL OFFICE: STATE LAND OFFICE BLDG., OLD SANTA FE TRAIL, SANTA FE  
MAILING ADDRESS: P. O. BOX 2088, SANTA FE, NEW MEXICO 87501

TELEPHONE: (505) 827-5800

JOE D. RAMEY, DIRECTOR

TECHNICAL SUPPORT CHIEF  
RICHARD L. STAMETS

WATER RESOURCE SPECIALIST  
OSCAR A. SIMPSON

GENERAL COUNSEL  
PERRY PEARCE

GEOLOGISTS  
CARL G. ULVOG  
ROY E. JOHNSON

ENGINEERS  
MICHAEL E. STOGNER  
GILBERT QUINTANA

---

DISTRICT OFFICES

DISTRICT I - HOBBS 88240

P. O. BOX 1980  
Telephone: (505) 393-6161

J. T. Sexton, Supervisor and  
Oil & Gas Inspector

P. F. Kautz, Geologist & Deputy  
Oil & Gas Inspector

Deputy Oil & Gas Inspectors:

R. M. Castleberry  
D. Catanach  
E. W. Seay  
A. A. Plattsmier  
O. W. Wink

DISTRICT III - AZTEC 87410

1000 Rio Brazos Road  
Telephone: (505) 334-6178

F. T. Chavez, Supervisor and  
Oil & Gas Inspector

J. A. Edmister, Geologist and Deputy  
Oil & Gas Inspector

C. C. Gholson, Deputy Oil & Gas Inspector

DISTRICT II - ARTESIA 88210

P. O. DRAWER DD  
Telephone: (505) 748-1283

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Larry Brooks, Geologist & Deputy  
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Oil & Gas Inspector

# **RULE 116. NOTIFICATION OF FIRE, BREAKS, LEAKS, SPILLS, AND BLOWOUTS**

The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any injection or disposal facility or at any oil or gas drilling, producing, transporting, or processing facility in the State of New Mexico by the person operating or controlling such facility.

"Facility," for the purpose of this rule, shall include any oil or gas well, any injection or disposal well, and any drilling or workover well; any pipe line through which crude oil, condensate, casinghead or natural gas, or injection or disposal fluid (gaseous or liquid) is gathered, piped, or transported (including field flow-lines and lead-lines but not including natural gas distribution systems); any receiving tank, holding tank, or storage tank, or receiving and storing receptacle into which crude oil, condensate, injection or disposal fluid, or casinghead or natural gas is produced, received, or stored; any injection or disposal pumping or compression station including related equipment; any processing or refining plant in which crude oil, condensate, or casinghead or natural gas is processed or refined; and any tank or drilling pit or slush pit associated with oil or gas well or injection or disposal well drilling operations or any tank, storage pit, or pond associated with oil or gas production or processing operations or with injection or disposal operations and containing hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, or other deleterious chemicals or harmful contaminants.

Notification of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

1. Well Blowouts. Notification of well blowouts and/or fires shall be "immediate notification" described below. ("Well blowout" is defined as being loss of control over and subsequent eruption of any drilling or workover well, or the rupture of the casing, casinghead, or wellhead of any oil or gas well or injection or disposal well, whether active or inactive, accompanied by the sudden emission of fluids, gaseous or liquid, from the well.)
2. "Major" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 25 or more barrels of crude oil or condensate, or 100 barrels or more of salt water, none of which reaches a watercourse or enters a stream or lake; breaks, spills, or leaks in which one or more barrels of crude oil or condensate or 25 barrels or more of salt water does reach a watercourse or enters a stream or lake; and breaks, spills, or leaks of hydrocarbons or hydrocarbon waste or residue, salt water, strong caustics or strong acids, gases, or other deleterious chemicals or harmful contaminants of any magnitude which may with reasonable probability endanger human health or result in substantial damage to property, shall be "immediate notification" described below.
3. "Minor" Breaks, Spills, or Leaks. Notification of breaks, spills, or leaks of 5 barrels or more but less than 25 barrels of crude oil or condensate, or 25 barrels or more but less than 100 barrels of salt water, none of which reaches a watercourse or enters a stream or lake, shall be "subsequent notification" described below.
4. Gas Leaks and Gas Line Breaks. Notification of gas leaks from any source or of gas pipe line breaks in which natural or casinghead gas of any quantity has escaped or is escaping which may with reasonable probability endanger human health or result in substantial damage to property shall be "immediate notification" described below. Notification of gas pipe line breaks or leaks in which the loss is estimated to be 1000 or more MCF of natural or casinghead gas but in which there is no danger to human health nor of substantial damage to property shall be "subsequent notification" described below.
5. Tank Fires. Notification cause, if the loss is, or it appears, or fires which may with reasonable property, shall be "immediate" will be at least 5 barrels or more shall be "immediate notification" described below.
6. Drilling Pit. Notification of any drilling pit, strong caustic or does substantial damage as may with reasonable probability stream, or lake, or of break or release of gas or liquid "subsequent notification" described below.

any drilling pit,  
strong caustic  
or does substantial  
as may with reasonable  
probability  
stream, or lake,  
or of break or release  
of gas or liquid  
"subsequent notification"  
described below.

WATERCOURSE, for  
arroyo, or natural or man-

EUNICE PLANT

SPILL NOTIFICATION PROCEDURES

Federal, state and local water pollution control agencies require that certain discharges be reported. Discharges exhibiting any of the characteristics described below must be reported to the appropriate government agencies as indicated.

OIL/HAZARDOUS SUBSTANCES

Reportable Spills

1. Any discharge of oil into or adjacent to navigable waters, or
2. Any release of a reportable quantity<sup>1</sup> of a hazardous substance to the environment (water, air, or land).

Report<sup>3</sup>

Immediate, by telephone.

Agencies

State of New Mexico Environmental Improvement Division: (Santa Fe) 505/984-0200, (Carlsbad) 505/887-3436, or 505/885-9023; and US Environmental Protection Agency-Emergency Response (Dallas Regional Office) 214/767-2666; and National Response Center 800/424-8802; and State of New Mexico Oil Conservation Division (Santa Fe) 505/827-5800 or (Hobbs) 505/393-6161.

MAJOR BREAKS, SPILLS, OR LEAKS

Reportable Spills

1. Discharge of 25 or more barrels of crude oil or condensate or 100 barrels or more of salt water, none of which reaches a body of water, and/or,
2. Discharge of one or more barrels of crude oil or condensate or 25 barrels or more of salt water into a body of water, and/or
3. Endanger health or damage property.

Report<sup>3</sup>

As soon as possible by telephone. Written report within 10 days of incident to district office.

Agencies

State of New Mexico Oil Conservation Division (Santa Fe) 505/827-5800 and (Hobbs) 505/393-6161.

MINOR BREAKS, SPILLS, OR LEAKS

Reportable Spills

Discharges between 5 to 25 barrels of crude oil or condensate or between 25 to 100 barrels of salt water, none of which reaches a body of water.

Report<sup>3</sup>

Written report within 10 days of incident to district office.

Agencies

State of New Mexico Oil Conservation Division-Hobbs District office: 505/393-6161



PIPELINE LEAK

Reportable Spills

1. Caused a death or caused a personal injury requiring hospitalization, and/or
- 2.<sup>2</sup> Required taking a segment of pipeline out of service, and/or
- 3.<sup>2</sup> Resulted in gas igniting, and/or
4. Caused an estimated property damage of \$5,000 or more, or
5. Was significant although not part of 1. through 4., above.

Report<sup>3</sup>

Immediate by telephone. Written report within 10 days of incident.

Agencies

US Department of Transportation through the National Response Center 800/424-8802; and New Mexico State Corporation Commission (Santa Fe) 505/827-4497.

<sup>1</sup>Reportable quantities of hazardous substances are listed in Volume II of Plan Preparation Guidelines - Hazardous Materials Release (Regulations), prepared by Gulf Oil Corporation - pages 40-117-1 through 40-117-4; Hazardous Wastes are listed in the Federal Register, Volume 45-No. 98, May 19, 1980.

<sup>2</sup>Notice is not required if 2. and 3. occurred solely as a result of, or in connection with, a planned or routine maintenance or construction.

<sup>3</sup>Contents of Telephone Report

Described in further detail in Volume II of Plan Preparation Guidelines - Hazardous Materials Release (Regulations) - Prepared by Gulf Oil Corporation, Page 40-112-2 through 40-112-3.

- a. Name, title, and telephone number of reporter.
- b. Name of facility.
- c. Name of owner or operator.
- d. Location of facility.
- e. Time and type of incident (e.g., fire, explosion, etc.)
- f. Location of spill or discharge including name of waters involved.
- g. Type and quantity of material spilled.
- h. Other information that may be required.
- i. Request the name of the person to whom you reported.

Additional information to be included in the written report:

- a. Initial startup date of facility.
- b. Maximum storage or handling capacity, daily average throughput.
- c. Description of facility including process flows, plot plan, and topographic map.
- d. Copy of SPCC Plan.
- e. Cause of the spill(s).
- f. Corrective action(s) taken.
- g. Preventive measure(s) taken.
- h. Extent of any physical damage and/or personal injuries.

All reported information should be logged and documented for record keeping purposes.

**EUNICE PLANT**  
**SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN**  
**PART I**  
**GENERAL INFORMATION**

PART I

GENERAL INFORMATION  
SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

1. Facility name: Eunice Plant No. 161 and Eunice Field Gathering System
2. Facility type: Onshore Gas Plant and Onshore Production Facility
3. Facility location: Plant - NE/4, Section 3, T22S, R37E, Lea County, New Mexico. Gathering System - R35E, R38E, T20S-T23S.
4. Owner or operator name and address: Warren Petroleum Company  
Box 1197  
Eunice, NM 88231
5. Name and title of oil spill prevention contact: R. O. Leinweber  
Plant Manager
6. Did facility experience a reportable oil spill event during the twelve months prior to 1-10-74 (effective date of 40 CFR, Part 112)? No  
(If yes, complete Attachment 1.)

Management Approval

This SPCC plan will be implemented as herein described:

Signature: R O Leinweber

Name: R. O. Leinweber  
Title: Plant Manager

Certification

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

Registered Professional Engineer: Jim R. Bruce  
(Print)

Jim R. Bruce  
(Signature)

(Seal)

Date: 6/21/85 Registration No. 4946 State: NM

Last Certification: 7/29/82

PART I-GENERAL INFORMATION - Continued

7. Potential spills - prediction and control:

<u>Source</u>	<u>Major Type of Failure</u>	<u>Total Quantity (Bbls)</u>	<u>Rate (Bbls/Hr)</u>	<u>Flow Direction</u>	<u>Secondary Containment</u>
1)Slop Tank	Leak	500	50	SE	Earthen Dike
2)Drip Tank	Leak	500	50	SE	Earthen Dike
3)Lube Oil Storage	Leak	200	30	SE	None
4)Lube Oil Storage	Leak	250	30	SE	None
5)MEA Storage	Leak	50	15	SE	Earthen Dike
6)Product* Surge	Rupture	700	200	SE	None
7)Acid Storage	Leak	30	10	SE	Concrete floor & walls

Comments for Sources:

1&2) Both the slop and drip tanks are used to hold the incoming oil/water mixture from the inlet scrubbers. Any spill is contained within an earthen dike.

3&4) There are two (2) lube oil storage tanks in use. Lube oil is loaded into the 1000 barrel vertical tank and fed into the 200 barrel horizontal tank. A maximum of 250 barrels of lube oil are kept in the 1000 barrel tank.

5) The MEA storage tank is a horizontal tank with a capacity of 280 barrels. This tank is used to store a maximum of 60 barrels of MEA.

6) The product surge tank is an insulated horizontal tank with a capacity of 700 barrels.

7) The acid storage tank is a horizontal tank used to store a maximum of 25 barrels of sulfuric acid.

\*Will vaporize when exposed to the ambient environment.

PART I-GENERAL INFORMATION - Continued

The slop oil, drip oil, and lube oil storage tanks are vertical bolted steel tanks. The others are horizontal welded steel tanks.

Since the Eunice Plant is located in an area where the probability of a spill reaching navigable water is negligible, any leak or spills could be contained by ditching and excavation.

8. Are containment, diversionary structures, or equipment to prevent oil from reaching navigable waters practicable? (If NO, complete Attachment 2.)  
Yes.

9. Inspections and Records:

- a. Do the required inspections follow written procedures as contained in this plan? Not applicable.
- b. Are the written procedures and inspection records signed by the appropriate supervisor or inspector attached? Not applicable.

Comment: Inspections at the plant do not require written procedures.

10. Personnel, training, and spill prevention procedures:

- a. Are personnel properly instructed in the following?
1. Operation and maintenance of equipment to prevent oil discharges.  
Yes
  2. Applicable pollution control laws, rules, and regulations?  
Yes

Describe procedures employed for instruction: All employees at this location have received written and verbal communication that no materials are to be released.

- b. Are scheduled prevention briefings for the operating personnel conducted frequently enough to assure adequate understanding of the SPCC plan? Yes

Describe briefing program: The avoidance of process leaks or spills is discussed periodically with employees. The importance of checking for leaks that could cause a spill is stressed. Employees are also reminded of the procedure to follow if a spill should occur.

EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN  
PART II  
ALTERNATE A  
DESIGN AND OPERATING INFORMATION  
ONSHORE FACILITY (EXCLUDING PRODUCTION)

## PART II, ALTERNATE A

### DESIGN AND OPERATING INFORMATION ONSHORE FACILITY (EXCLUDING PRODUCTION)

#### A. Facility Drainage

1. Drainage from diked storage areas is controlled as follows. (Include operating description of valves, pumps, ejectors, etc.) (Note: Flapper-type valves should not be used.) Not applicable

Vacuum truck will be used in the event of an oil spill to drain diked areas.

2. Drainage from undiked areas is controlled as follows: (Include description of ponds, lagoons, or catchment basins and methods of retaining and returning oil to facility.) Not applicable.

All liquids enter a drain system to the Skimmer basin, where the oil and water are separated. The oil is transferred to the slop and drip tanks, where it is treated and pipelined. The water is disposed of in an injection well.

3. The procedure for supervising the drainage of rainwater from secondary containment into a storm drain or an open watercourse is as follows: (Include description of inspection for pollutants and method of valving security. A record of inspection and drainage events is to be maintained on a form similar to Attachment 3.) Not applicable.

Any contained rainwater is vacuumed and hauled from the plant.

#### B. Bulk Storage Tanks

1. Describe tank design, materials of construction, fail-safe engineering features, and if needed, corrosion protection:

Tanks meet or exceed Warren Petroleum engineering standards.

2. Describe secondary containment design, construction materials, and volume: An impervious earthen ditch from slop and drip tanks to earthen pit.

3. Describe tank inspection methods, procedures, and record keeping: Operator checks tanks for leaks on every shift; external inspection for rust, corrosion or structural damage.

4. Internal heating coil leakage is controlled by one or more of the following control factors:

- a. Monitoring the steam return or exhaust lines for oil. Describe monitoring procedure: Not applicable.

- b. Passing the steam return or exhaust lines through a settling tank, skimmer, or other separation system. Not applicable.

- c. Installing external heating systems. Not applicable.

PART II-ALTERNATE A - Continued

5. Disposal facilities for plant effluents discharged into navigable waters are observed frequently for indication of possible upsets which may cause an oil spill event. Not applicable.

Describe method and frequency of observations: All liquid waste water from the plant is disposed of through an EPA-permitted injection well. The effluent has been sampled, analyzed, and reported to the EPA. The effluent is visually inspected for the presence of oil.

C. Facility Transfer Operations, Pumping and Inplant Process

1. Corrosion protection for buried pipelines:
  - a. Are pipelines wrapped and coated to reduce corrosion? Yes
  - b. Is cathodic protection provided for pipelines if determined necessary by electrolytic testing? Yes
  - c. When a pipeline section is exposed, is it examined and corrective action taken as necessary? Yes
2. Are pipeline terminal connections capped or blank-flanged and marked if the pipeline is not in service or on standby service for extended periods? Yes

Describe criteria for determining when to cap or blank-flange:

Lines are either removed or capped when they are permanently removed from service.

3. Are pipe supports designed to minimize abrasion and corrosion and allow for expansion and contraction? Yes

Describe pipe support design: Piping is supported by Skid pads and held in place with clamps.

4. Describe procedures for regularly examining all aboveground valves and pipelines including flange joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces: Aboveground valves and pipelines are observed daily. Special inspections are made after a period of cold weather to check for any damage due to freezing.
5. Describe procedures for warning vehicles entering the facility to avoid damaging aboveground piping: All visitors to the plant are required to check in at the office where they are informed of the areas in the plant that they may drive through. All aboveground piping is clearly marked.

D. Facility Tank Car and Tank Truck Loading/Unloading Rack

Does tank car and tank truck loading/unloading occur at the facility? If yes, complete 1 through 5 below. No.

1. Does loading/unloading procedures meet the minimum requirement and regulations of the Department of Transportation? Not applicable.
2. Does the unloading area have a quick drainage system? Not applicable.



PART II-ALTERNATE A - Continued

3. Will the containment system hold the maximum capacity of any single compartment of a tank truck loaded/unloaded in the plant? Not applicable.

Describe containment system design, construction materials, and volume: Not applicable.

4. Is an interlocked warning light, a physical barrier system, or warning signs provided in loading/unloading areas to prevent vehicular departure before disconnect of transfer lines? Not applicable.

Describe methods, procedures, and/or equipment used to prevent premature vehicular departure: Not applicable.

5. Are drains and outlets on tank trucks and tank cars checked for leakage before loading/unloading or departure? Not applicable.

E. Security

1. Are plants fenced that are handling, processing, or storing oil? Yes
2. Are entrance gates locked and/or guarded when the plant is unattended or not in production? Yes
3. Are any valves which permit direct outward flow of a tank's contents locked closed when in non-operating or standby status? No
4. Starter controls on all oil pumps in non-operating or standby status are:
- a. locked in the off position. No.
  - b. located at site accessible only to authorized personnel. Yes.

5. Discussion of items 1 through 4 as appropriate:

Valves and pumps are not locked, but are observed by operating personnel only.

6. Discussion of lighting around the facility:

Plant lighting is adequate to observe any visitor to the plant. It is also sufficient to observe any spill.

EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN  
PART II  
ALTERNATE B  
DESIGN AND OPERATING INFORMATION  
ONSHORE OIL PRODUCTION FACILITY

PART II, ALTERNATE B

DESIGN AND OPERATING INFORMATION  
ONSHORE OIL PRODUCTION FACILITY

A. Facility Drainage

1. Drainage from diked storage areas is controlled as follows. (Include operating description of valves, pumps, ejectors, etc.) Not applicable.
2. The procedure for supervising the drainage of rainwater from secondary containment into a storm drain or an open watercourse is as follows: (Include description of inspection for pollutants and method of valving security. A record of inspection and drainage events is to be maintained on a form similar to Attachment 3.) Not applicable.
3. Field drainage ditches, road ditches, and oil traps, sumps, or skimmers, if such exist, are inspected at regularly scheduled intervals for accumulation of oil. Any accumulated oil would be hauled by vacuum truck on a regular basis.

B. Bulk Storage Tanks

1. Describe tank design, materials of construction, fail-safe engineering features: Not applicable.
2. Describe secondary containment design, construction materials, and volume: Not applicable.
3. Describe tank inspection methods, procedures, and recordkeeping: Not applicable.

C. Facility Transfer Operations

1. Describe scheduled basis for examinations of aboveground valves and pipelines and salt water disposal facilities:

All aboveground equipment is inspected daily. Leaks are reported and repaired.

2. Describe flowline maintenance program to prevent spills:

Gas gathering system is monitored for leaks. Some of the older steel lines have been replaced with polyethylene pipe which has a high resistance to corrosion.

D. Oil Drilling and Workover Facilities

1. A blowout preventer (BOP) assembly and well control system is installed before drilling below any casing string and, as required, during workover operations. Not applicable.
2. The BOP assembly is capable of controlling any expected wellhead pressure. Not applicable.
3. Casing and BOP installations conform to state regulations. Not applicable.

EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

PART III  
SPILL HISTORY

## SPILL HISTORY

There have been no spills at the Eunice Plant. It is very unlikely that a spill would occur which would leave the property thereby entering a navigable waterway. However, Form S/WPC-SPCC-1, an example of which follows, will be used to record information should a spill occur.

## OIL SPILL REPORT

Date:

1. Location
  - a. Unit or Plant:
  - b. Field
  - c. Facility involved:
2. Environment
  - a. Wind velocity (mph):
  - b. Wind direction:
  - c. Wave height (feet):
  - d. Current direction:
3. Spill
  - a. Type of oil:
  - b. Estimated volume\* (barrels):
  - c. Cause:
  - d. Action taken\*\*:
  - e. Time spill started:
  - f. Shutoff:
  - g. Movement direction and present location:
4. Land Areas Endangered
5. Cleanup Procedure
  - a. Equipment used:
  - b. Dispersant used (name type):
  - c. Volume (gallons):
  - d. Use authorized by (agency/person):
  - e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
  - f. Completed cleanup date:
6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

\*\*If cause was mechanical, list suggested modifications to prevent future spills on the back of this page.

Signature:

Position:

Date:

Note: Copies of this form are completed and kept as Part III of this plan.

## OIL SPILL REPORT

Date:

1. Location

- a. Unit or Plant:
- b. Field
- c. Facility involved:

2. Environment

- a. Wind velocity (mph):
- b. Wind direction:
- c. Wave height (feet):
- d. Current direction:

3. Spill

- a. Type of oil:
- b. Estimated volume\* (barrels):
- c. Cause:
- d. Action taken\*\*:
- e. Time spill started:
- f. Shutoff:
- g. Movement direction and present location:

4. Land Areas Endangered5. Cleanup Procedure

- a. Equipment used:
- b. Dispersant used (name type):
- c. Volume (gallons):
- d. Use authorized by (agency/person):
- e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
- f. Completed cleanup date:

6. Agencies and Persons Notified/Time and Date

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Signature:

Position:

Date:

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## OIL SPILL REPORT

Date:

1. Location

- a. Unit or Plant:
- b. Field
- c. Facility involved:

2. Environment

- a. Wind velocity (mph):
- b. Wind direction:
- c. Wave height (feet):
- d. Current direction:

3. Spill

- a. Type of oil:
- b. Estimated volume\* (barrels):
- c. Cause:
- d. Action taken\*\*:
- e. Time spill started:
- f. Shutoff:
- g. Movement direction and present location:

4. Land Areas Endangered5. Cleanup Procedure

- a. Equipment used:
- b. Dispersant used (name type):
- c. Volume (gallons):
- d. Use authorized by (agency/person):
- e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
- f. Completed cleanup date:

6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

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Position:

Date:

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## OIL SPILL REPORT

Date:

1. Location
  - a. Unit or Plant:
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  - c. Facility involved:
2. Environment
  - a. Wind velocity (mph):
  - b. Wind direction:
  - c. Wave height (feet):
  - d. Current direction:
3. Spill
  - a. Type of oil:
  - b. Estimated volume\* (barrels):
  - c. Cause:
  - d. Action taken\*\*:
  - e. Time spill started:
  - f. Shutoff:
  - g. Movement direction and present location:
4. Land Areas Endangered
5. Cleanup Procedure
  - a. Equipment used:
  - b. Dispersant used (name type):
  - c. Volume (gallons):
  - d. Use authorized by (agency/person):
  - e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
  - f. Completed cleanup date:
6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

\*\*If cause was mechanical, list suggested modifications to prevent future spills on the back of this page.

Signature:

Position:

Date:

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## OIL SPILL REPORT

Date:

1. Location
  - a. Unit or Plant:
  - b. Field
  - c. Facility involved:
2. Environment
  - a. Wind velocity (mph):
  - b. Wind direction:
  - c. Wave height (feet):
  - d. Current direction:
3. Spill
  - a. Type of oil:
  - b. Estimated volume\* (barrels):
  - c. Cause:
  - d. Action taken\*\*:
  - e. Time spill started:
  - f. Shutoff:
  - g. Movement direction and present location:
4. Land Areas Endangered
5. Cleanup Procedure
  - a. Equipment used:
  - b. Dispersant used (name type):
  - c. Volume (gallons):
  - d. Use authorized by (agency/person):
  - e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
  - f. Completed cleanup date:
6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

\*\*If cause was mechanical, list suggested modifications to prevent future spills on the back of this page.

Signature:

Position:

Date:

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## OIL SPILL REPORT

Date:

1. Location

- a. Unit or Plant:
- b. Field
- c. Facility involved:

2. Environment

- a. Wind velocity (mph):
- b. Wind direction:
- c. Wave height (feet):
- d. Current direction:

3. Spill

- a. Type of oil:
- b. Estimated volume\* (barrels):
- c. Cause:
- d. Action taken\*\*:
- e. Time spill started:
- f. Shutoff:
- g. Movement direction and present location:

4. Land Areas Endangered5. Cleanup Procedure

- a. Equipment used:
- b. Dispersant used (name type):
- c. Volume (gallons):
- d. Use authorized by (agency/person):
- e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
- f. Completed cleanup date:

6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

\*\*If cause was mechanical, list suggested modifications to prevent future spills on the back of this page.

Signature:

Position:

Date:

Note: Copies of this form are completed and kept as Part III of this plan.

## OIL SPILL REPORT

Date:

1. Location

- a. Unit or Plant:
- b. Field
- c. Facility involved:

2. Environment

- a. Wind velocity (mph):
- b. Wind direction:
- c. Wave height (feet):
- d. Current direction:

3. Spill

- a. Type of oil:
- b. Estimated volume\* (barrels):
- c. Cause:
- d. Action taken\*\*:
- e. Time spill started:
- f. Shutoff:
- g. Movement direction and present location:

4. Land Areas Endangered5. Cleanup Procedure

- a. Equipment used:
- b. Dispersant used (name type):
- c. Volume (gallons):
- d. Use authorized by (agency/person):
- e. Effectiveness of cleanup (include time required to disperse slick/naturally or with chemicals):
- f. Completed cleanup date:

6. Agencies and Persons Notified/Time and Date

\*Describe on the back of this page how the volume was calculated.

\*\*If cause was mechanical, list suggested modifications to prevent future spills on the back of this page.

Signature:

Position:

Date:

Note: Copies of this form are completed and kept as Part III of this plan.

EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

PART IV  
CONTINGENCY PLAN  
(ATTACHMENT #2)

## OIL SPILL CONTINGENCY PLANS &amp; WRITTEN COMMITMENT OF MANPOWER\*

Secondary containment or diversionary structures are impracticable for this facility for the following reasons (attach additional pages, if necessary).

There is little likelihood that a spill could occur at this facility which would reach a waterway. Warren dedicates the commitment of personnel to inspect storage materials at least on a daily basis. Attention to any leaks will be immediate. Warren also dedicates the commitment of personnel to contain and remove any spilled material in an expedient manner.

Yes A strong oil spill contingency plan is intended.

Yes A written commitment of manpower is intended.

General

We are required, by law, to have at this location a "Prevention and Control Plan for Accidental Material Releases." This Plan includes procedures for the reporting, control, containment, and cleanup of any materials released. The term "Hazardous Material" includes any material that could adversely affect the well being of humans, animals, plant life, and/or environment due to its chemical composition, flammability or explosive characteristics. Of utmost importance is the notification and protection of the public. This plan includes the notification of the public when a release is in an area that would present a hazard.

Notification - Internal

1. Any employee detecting a release of hazardous material shall, if practical, take steps to control of contain the release.
2. Call the supervisor on duty giving the location and nature of the release.
3. The supervisor on duty will notify the Plant Manager, Response Team Employees, and if necessary, Equipment, Medical, and Law Enforcement Agencies.

Responsibility Chain

## PLANT MANAGER

	Employee on Duty		Supervisor on Duty	
Response Team	Equipment	Material	Law Enforcement	Medical

Phone numbers for employees and outside sources are available in the Reporting/Notification procedures of this Spill Plan.

\*This SPCC plan contains an oil spill contingency plan and includes the commitment of manpower to implement the plan.

## Action Plan

The release of various materials can occur at certain locations in the plant process area and in the field gathering system. Primarily, should a release occur, the Operator's function will be to report and control (by closing valves, etc.) the release. The following will be our plan of action for releases at various locations:

### 1. Tanks

- a. Operator on duty will manually stop the pumping into the tanks.
- b. The liquids that may have spilled will then be removed with a vacuum truck; or the area will be ditched and excavated.
- c. The ground surface will then be cleaned up and reclaimed.

### 2. All Other Sources of Spills

- a. The operator will shutdown appropriate pumps, and close valves to tanks at which the spill occurred.
- b. Operator will notify supervisor on duty, who will then call-in additional personnel, if necessary.
- c. If a dike is necessary, our equipment on site can be used to contain the spill or additional equipment can be called in, if needed.
- d. After containment, the spill will be removed by vacuum truck and the spill area cleaned up and reclaimed.

### 3. Plant Spills Public Safety

- a. Due to the location of the plant, public safety should not normally be effected. However, the Plant Manager will determine if any spills could be detrimental to the public safety and take appropriate preventive action.
- b. The preventive action taken will depend on the amount, type, and location of the spill, and the Plant Manager will use his/her discretion of measures taken. Therefore, no predetermined action can be set.

### 4. Eunice Gathering System

Since our field gathering system is gas, our main concern regarding a field line rupture is public safety. The majority of the system, where a sudden release of natural gas were present, would not present a definite hazard to home dwellers and/or motorists. If leaks do occur near living areas and roads, personnel living in the area will be notified and road-blocks established to protect motorists. Leaks are normally reported by the public to the plant. Whoever takes calls will notify the supervisor on duty, who will in turn call out field personnel to repair the leak.

### 5. Summary

Our basic plan of action upon releases of any materials will be the same:



- a. Detect the release.
- b. Control the release, if possible, by shutting off the source.
- c. Notify company personnel.
- d. Protection of company and non-company personnel.
- e. Protection of equipment and the environment.
- f. Cleanup and repair.

6. Prevention

Every effort will be made to prevent spills and/or line breaks. Every employee is expected to report any situation that appears to be a potential problem. Constant surveillance by all employees is necessary to prevent Materials Releases.

7. Public Safety

Public Safety was previously discussed for plant and field procedures. The purpose of this section is to create a procedure to notify the public that a hazard exists in their area and to instruct them to evacuate the area. Should a line rupture occur near a public road that would endanger motorists using that road, we must notify the County Sheriff's Department of the exact location. We will then block the road until Law Enforcement Officials arrive. Should a line rupture occur near a public or private dwelling that might endanger human life, our personnel will immediately notify the endangered persons, and notify the County Sheriff's Department for further instructions.

EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

PART V

ONSHORE FACILITY BULK STORAGE TANKS  
DRAINAGE SYSTEM

(ATTACHMENT #3)

SPCC PLAN, ATTACHMENT #3  
ONSHORE FACILITY BULK STORAGE TANKS  
DRAINAGE SYSTEM

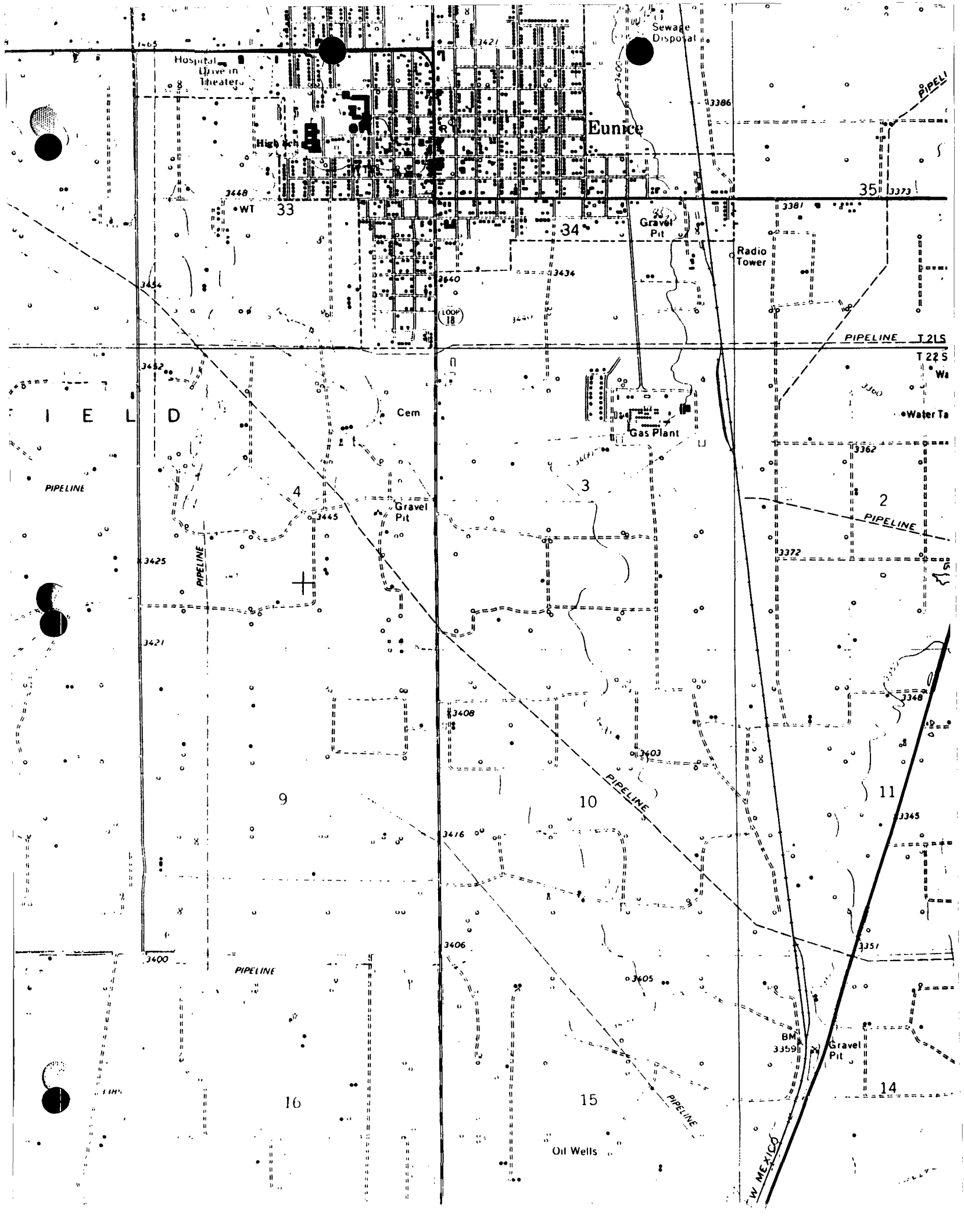
Inspection Procedure:

Diked areas are drained by use of a vacuum truck.

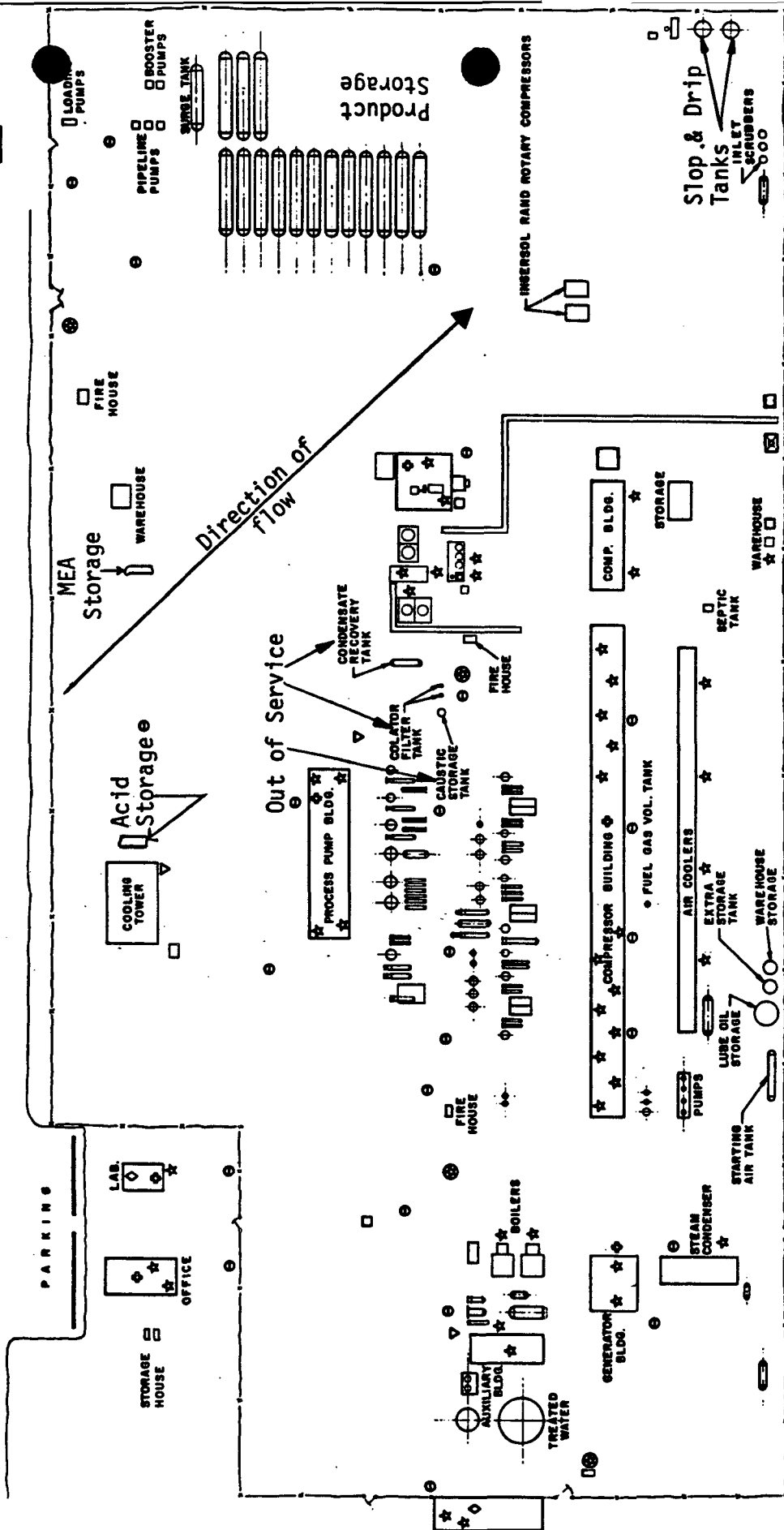
Record of drainage, bypassing, inspection, and oil removal from secondary containment:

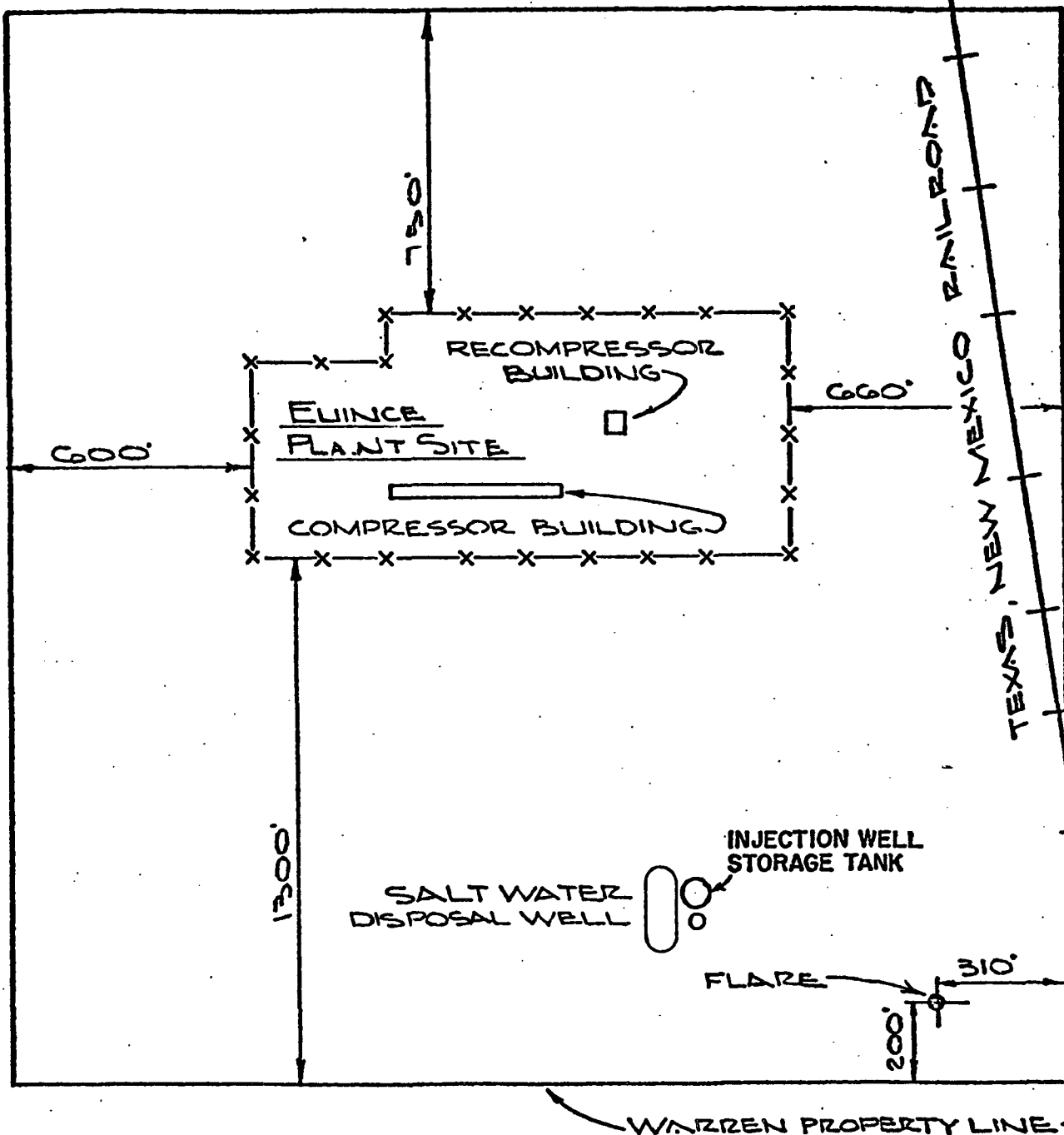
<u>Date of</u> <u>Drainage</u>	<u>Date of</u> <u>Bypassing</u> <u>Open</u> <u>Closed</u>	<u>Date of</u> <u>Inspection</u>	<u>Oil Removal</u>	<u>Supervisor's or</u> <u>Inspector's Signature</u>
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EUNICE PLANT  
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN  
PART VI  
LOCATION MAPS/PLANS



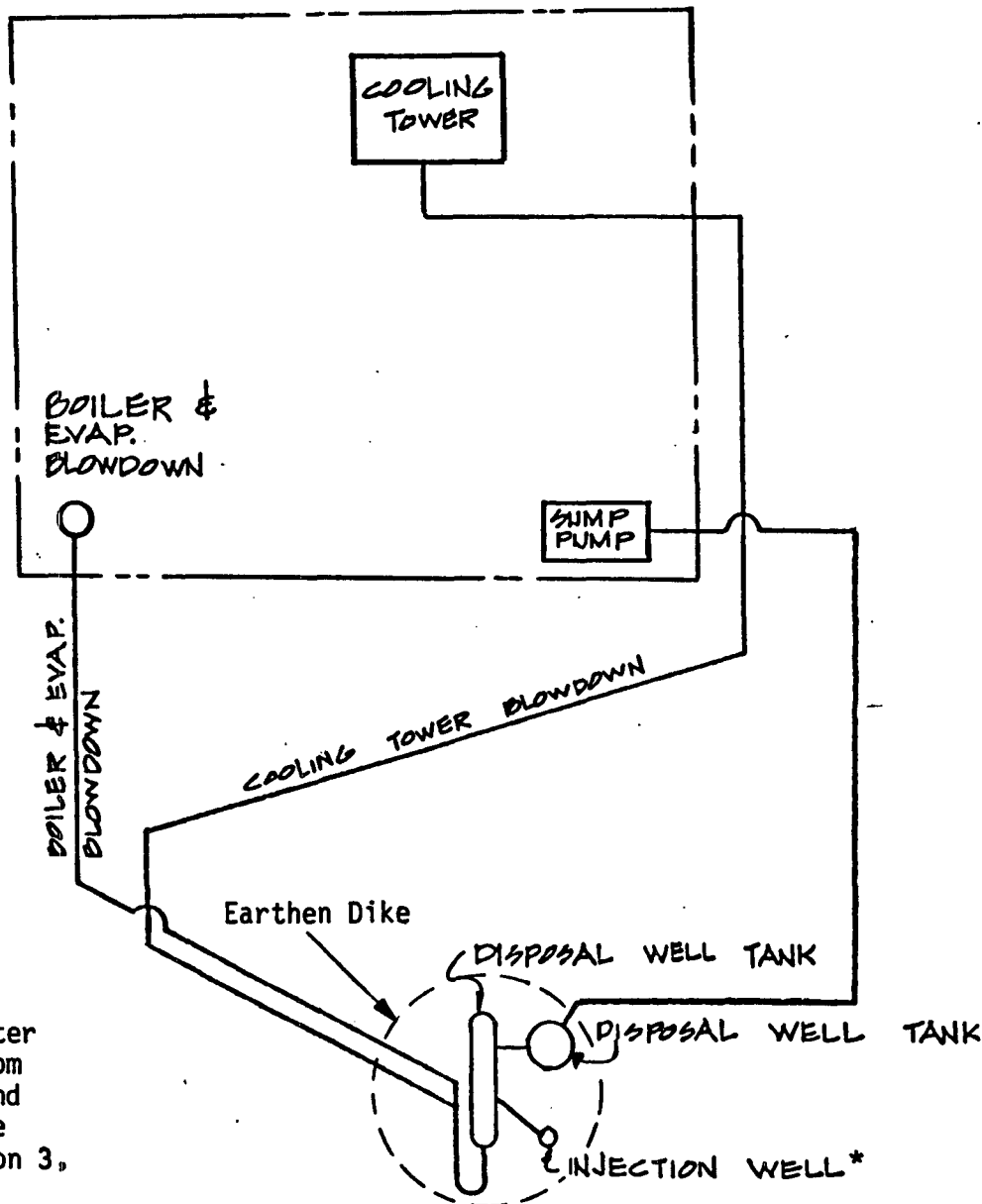
# EUNICE PLANT





N.W. 1/4 SEC. 3, T225, R37E

NO.	REVISIONS	BY	DATE	CHK	APPR	ISSUED CONST.		NO OF UNITS REQUIRED THUS	WO-AFE NO.
						DATE	BY	WARREN PETROLEUM CO.	
								TULSA, OKLAHOMA	
								EUNICE PLANT SITE	
								PLT. 161 EUNICE NEW MEXICO	
								DRAWN LP	DATE 4-75
								SCALE 1" = 400'	



\* SWD-1: Unit Letter  
H, 2,255 feet from  
the north line and  
908 feet from the  
east line, Section 3,  
T22S, R37E.

NO.	REVISIONS	BY	DATE	CHK.	APPR.	ISSUED CONST.		NO. OF UNITS REQUIRED THUS	WO-AFE NO.
						DATE	BY	<b>WARREN PETROLEUM COMPANY</b> <b>TULSA, OKLAHOMA</b> <b>GULF 82341</b>	
								<b>COOLING TOWER AND BOILER</b> <b>BLOWDOWN PIPING</b> <b>FLT. 161</b>	
								DRAWN <b>WJH</b> <b>DATE 4-8-81</b> <b>SCALE -</b>	DRAWING NO.
								CHECKED <b>LLJ</b> <b>DATE 5-31-85</b>	
								APPROVED <b>ROL</b> <b>DATE</b>	



