



SWD  
776

5/30/00

May 10, 2000

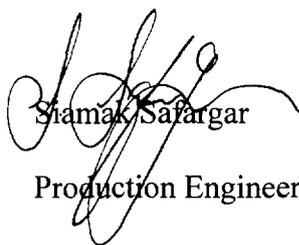
From: Texaco Exploration & Production Inc.  
To: New Mexico Oil Conservation Division  
Subject: Request for completing a disposal well

15

Dear Sir/Madam:

This letter is to request a permit to convert a temporary abandoned well to a water disposal well for the water management purposes. The proposed well is "New Mexico "Z" State NCT-1 Well #1" with the legal description of "Unit letter C - 660' FNL & 2200' FWL - Sec. 2 - Twp. 18S - Rng. 34E" in Lea County. As proposed, this well will be completed in the very bottom of the San Andres Formation, approximately from 4900' to 5700'.

In our application, we did not include the wellbore diagrams of all the wells within the regulatory distance (half a mile radius) from the aforementioned well in order to eliminate some redundancy. Texaco E&P Inc. has obtained injection permits within the same proximity of proposed well (as indicated in the attachment) in the past. However, we would gladly provide you with such information if needed. Please, do not hesitate to contact me at Tel: (505) 3970429 and/or [safarms@texaco.com](mailto:safarms@texaco.com). Kind regards,

  
Siamak Safargar  
Production Engineer

APPLICATION FOR AUTHORIZATION TO INJECT

✓ I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  yes  no

✓ II. Operator: Texaco Exploration & Production Inc.

Address: 205 E. Bender Blvd. Hobbs, New Mexico 88240

Contact party: Siamak Safargar Phone: 505-3970429

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project?  yes  no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.

✓ V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

✓ \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

✓ \* VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

✓ IX. Describe the proposed stimulation program, if any.

\* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

✓ \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

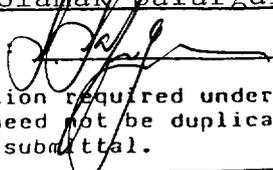
✓ XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

✓ XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

✓ XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Siamak Safargar Title Production Engineer

Signature:  Date: May 10, 2000

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

Please refer to the attachments

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

## III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

## Attachment for Form C-108

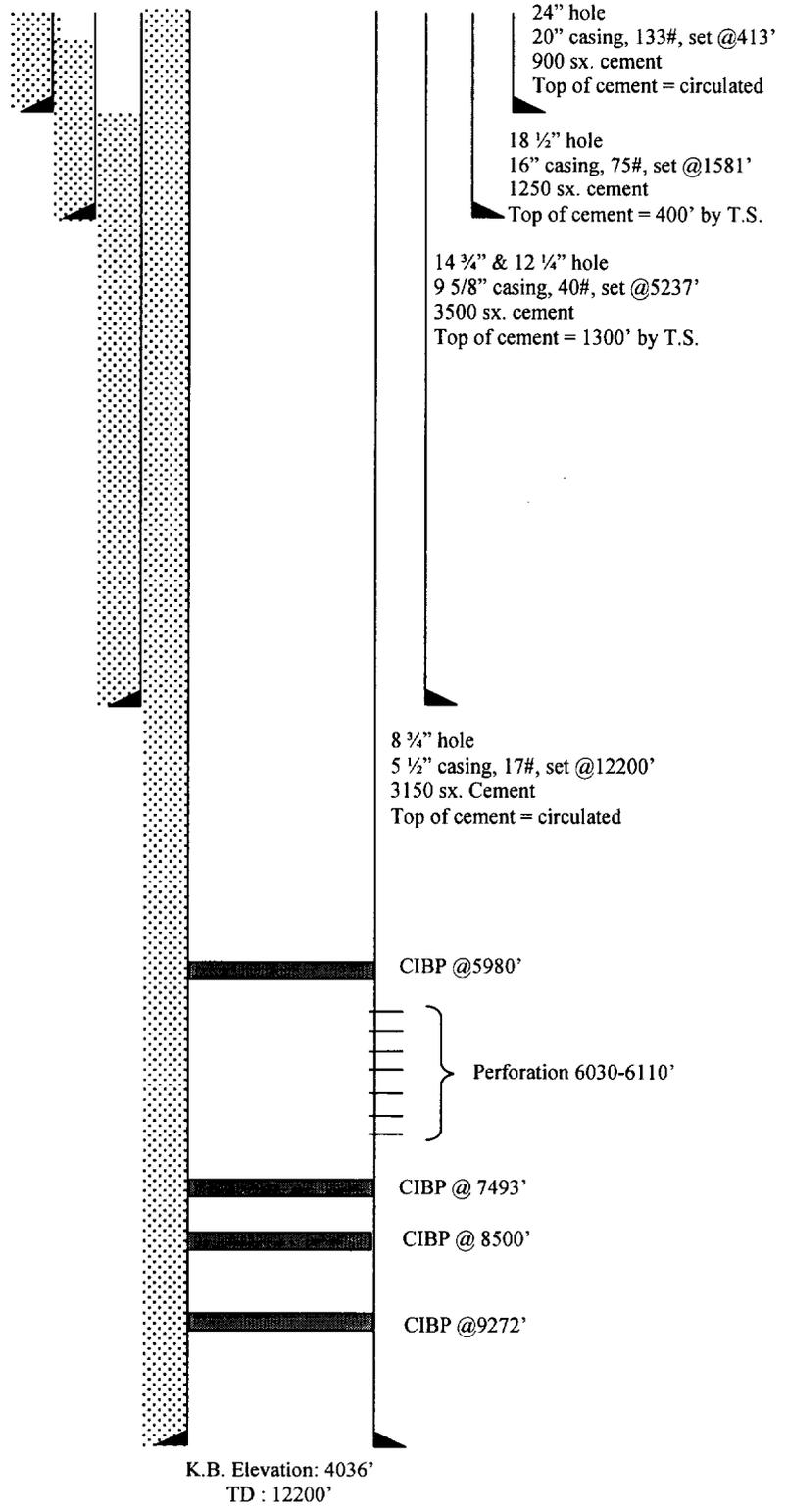
- VII. The initial injection pressure will be limited to about 1000 psi (0.2 psi/ft). Step-Rate-Test will be run to establish higher limits with the authorization of the NMOCD. The system will be closed.
- IX. Summary of the initial completion:
- \* Perforate interval 4894-5010 with 2JSPF and 120 degree phasing
  - \* Acidize the perforation under packer with 10,000 gals 20% NEFE
  - \* Run 5 1/2" AD-1 packer and 2 3/8 Douline injection tubing
  - \* Set packer @ +/- 4840' and conduct casing integrity test as per OCD guidelines.
- XII. Based on current geological and engineering data, no evidence of natural and/or artificially induced open faults occurs within or above the interval. No known communication has been observed between the injection zone and any subsurface source of drinking water.
- XIII. A copy of the legal notice is attached.

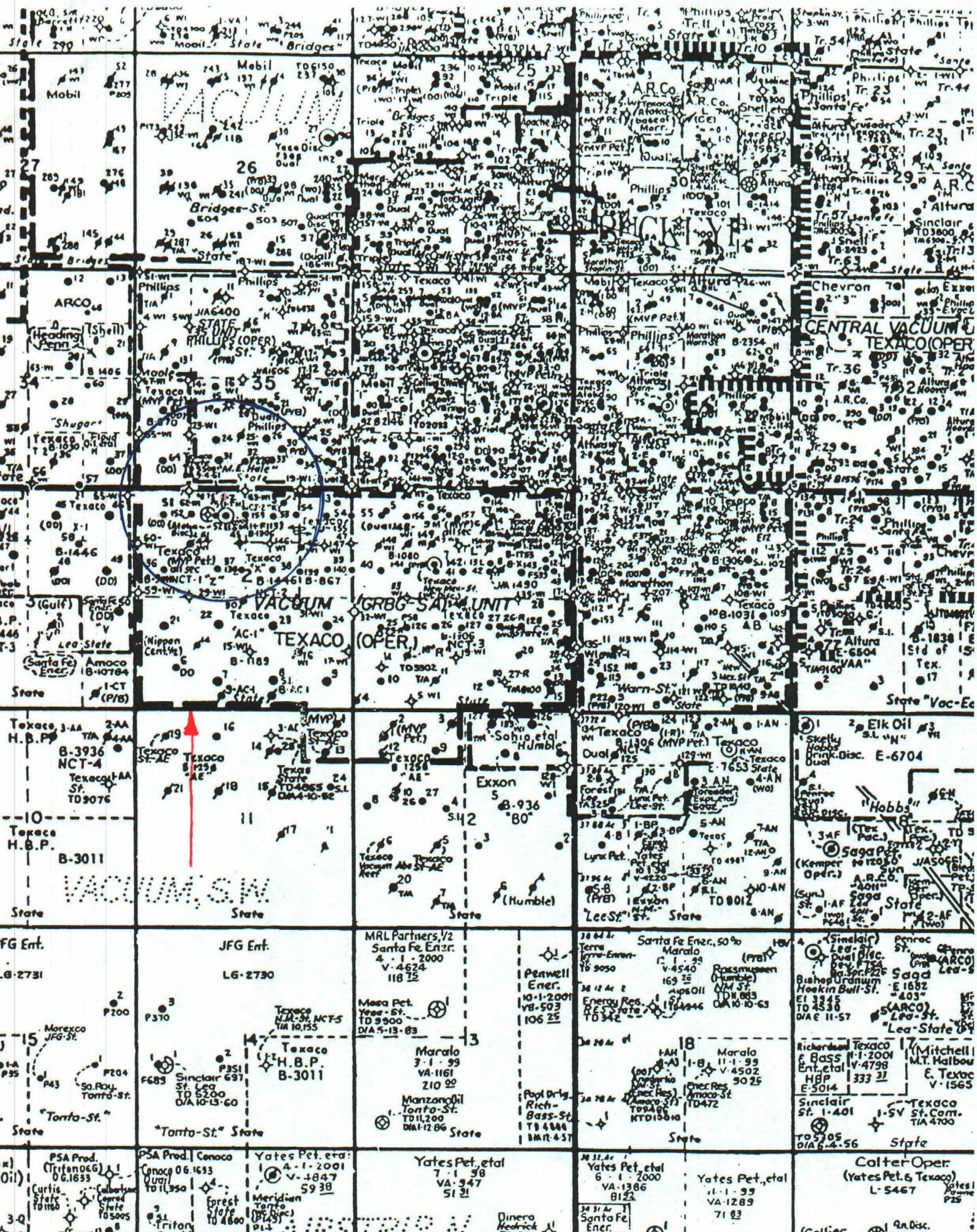
**Attachment for Form C-108**

Summary of Order Numbers for Texaco's  
Vacuum Grayburg San Andres  
Pressure Maintenance Project

R-4442	November 1, 1972	Initial Secondary Recover
✓ PMX-43	January 31, 1973	Expansion
✓ PMX-44	January 31, 1973	Expansion
✓ PMX-74	January 8, 1979	Expansion
R-6094	August 8, 1979	Remove the top allowable restriction
R-7010	May 26, 1982	Initial tertiary recovery
R-1070-A	July 30, 1982	Correction to R-7010
✓ PMX-120	November 2, 1982	Expansion
✓ PMX-167	February 2, 1992	Expansion
PMX-157 <sup>173</sup>	<del>February 10, 1992</del> 8-10-93	Expansion
PMX-198	July 22, 1999	Expansion

**New Mexico State "Z" NCT-1 Well #1**  
**API # 30-025-29988**  
**Letter C – 660' FNL & 2200' FWL – Sec. 2 – Twp. 18S – Rng. 34E**





Mobil  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

Phillips  
ARCO  
Texaco  
Exxon  
Yates

VACUUM  
TEXACO  
GRBG-SAL UNIT  
(OPER.)

VACUUM, SW  
H.B.P.  
B-3011

JFG Ent.  
LG-2730  
MRL Partners, 1/2  
Santa Fe Ener.  
4-1-2000  
V-4624  
118 25

Maralo  
3-1-99  
VA-1161  
210 22  
Manzanillo  
Tonto-St.  
D11200  
D1A 5-13-83

Penwell Ener.  
10-1-2001  
V8-503  
106 25  
Yates Pet. et al  
7-1-98  
VA-347  
51 21

Yates Pet. et al  
6-1-2000  
VA-1386  
81 22  
Yates Pet. et al  
11-1-99  
VA-1289  
71 23

Calter Oper  
(Yates Pet. & Texaco)  
L-5467  
Yates  
P25

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a 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 a supplement thereof for a period.

of 2 weeks.

Beginning with the issue dated

April 29 2000

and ending with the issue dated

April 30 2000

Kathi Bearden  
Publisher

Sworn and subscribed to before

me this 1st day of

May 2000

Godi Henson  
Notary Public.

My Commission expires  
October 18, 2000  
(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**  
April 29, 30, 2000

Notice is hereby given of the application of Texaco Exploration and Production Inc. Attention: Tim Miller, Area Manager, 205 E. Bender Blvd., Hobbs, New Mexico, Telephone (505) 397-0421, to the New Mexico Oil Conservation Commission and Mineral Department, for approval to convert an idle wellbore (lastly completed in Glorieta Formation) to a disposal well for the purpose of water management in Texaco's Buckeye operation.

Unit name: Vacuum Grayburg San Andres, Lea County, New Mexico

Well's Number and location: New Mexico #2 State NCT-1 #1 Unit letter C 660' FNL and 2200' FWL Sec. 2 Twp. 19S Rng. 34E

The injection formation will be lower San Andres formation at a depth of approximately 4900 to 5700 feet below the surface of the ground. Expected maximum injection pressure is 1500 pound per square inch (to be determined by Step-Rate-Test). Interested parties must file objection or request for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505.

#17363

**ILLEGIBLE**

01101308000      01540593  
Texaco E&P, Inc.  
205 E. Bender  
Hobbs, NM 88240

Pursuant to your request, listed below are the offset operators of the lands described, limited to depths from 4,800' to 5,400':

- 1) NE/4 SE/4 of Section 34, T17S-R34E, Lea Co., NM -  
Marathon Oil Company  
P. O. Box 552  
Midland, Texas 79702
- 2) SE/4 SE/4 of Section 34, T17S-R34E, Lea Co., NM -  
Conoco Inc.  
10 Desta Drive, Suite 100W  
Midland, Texas 79705
- 3) SE/4 and E/2 SW/4 of Section 35, T17S-R34E, Lea Co., NM \* -  
Phillips Petroleum Company  
4001 Penbrook  
Odessa, Texas 79762

(\*subject to the State 35 Unit - San Andres formation unitized from 4,000' to 4,950')

- 4) NE/4 SE/4 of Section 3, T18S-R34E, Lea Co., NM -  
Santa Fe Snyder Corporation  
550 W. Texas, Suite 1330  
Midland, Texas 79701  
or  
Chevron USA, Inc.  
P. O. Box 1150  
Midland, Texas 79702

The State of New Mexico owns the surface for all of the above lands.



Texaco

May 8, 2000

Re: Water Disposal Well  
Lea County, New Mexico  
Notification for intend in completing of Water Disposal Well

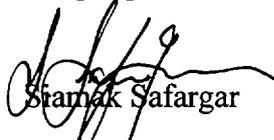
This letter is to notify all the offset operators and landowners that Texaco Exploration & Production Inc. is requesting a permit form NMOCD to convert a temporary abandoned well to a water disposal well for the water management purposes. This well will be a part of Vacuum Grayburg San Andres Unit. The name and legal description of the candidate well is:

New Mexico "Z" State NCT-1 Well No. 1  
Unit letter C – 660' FNL & 2200' FWL – Sec.2 Twp. 18S Rng. 34E Lea County

Formation under consideration is from 4900' to 5700'. Daily injection rate for this well will be determined by Step-Rate-Test upon its completion. However, initial injection pressure will be limited and not exceed 0.2 psi/ft. Attached are maps showing the location of the above well and schematic of the pertinent wellbore data.

Interested parties must file objections or request for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505.

King regards,

  
Stanak Safargar  
Production Engineer

Attachments

Z 576 997 468

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to *State of New Mexico*

Street & Number

*P.O. Box 1148*

Post Office, State, & ZIP Code

*San Antonio, N.M. 87504-1148*

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees \$ *3.13*

Postmark or Date

APR 11 1995

3800

Z 576 997 470

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to *Phillips Petroleum Company*

Street & Number

*4001 Pembroke*

Post Office, State, & ZIP Code

*Odessa, TX 79762*

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees \$ *3.13*

Postmark or Date

APR 11 1995

3800

Z 576 997 471

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to *Canoco Inc.*

Street & Number

*10 Desta Drive, Suite 100W*

Post Office, State, & ZIP Code

*Midland, TX 79705*

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees \$ *3.13*

Postmark or Date

APR 11 1995

3800

Z 576 997 472

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to *Marathon Oil Company*

Street & Number

*P.O. Box 552*

Post Office, State, & ZIP Code

*Midland, TX 79702*

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees \$ *3.13*

Postmark or Date

APR 11 1995

3800

Z 576 997 469

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to *Chelton USA, Inc.*

Street & Number

*P.O. Box 1150*

Post Office, State, & ZIP Code

*Midland, TX 79702*

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

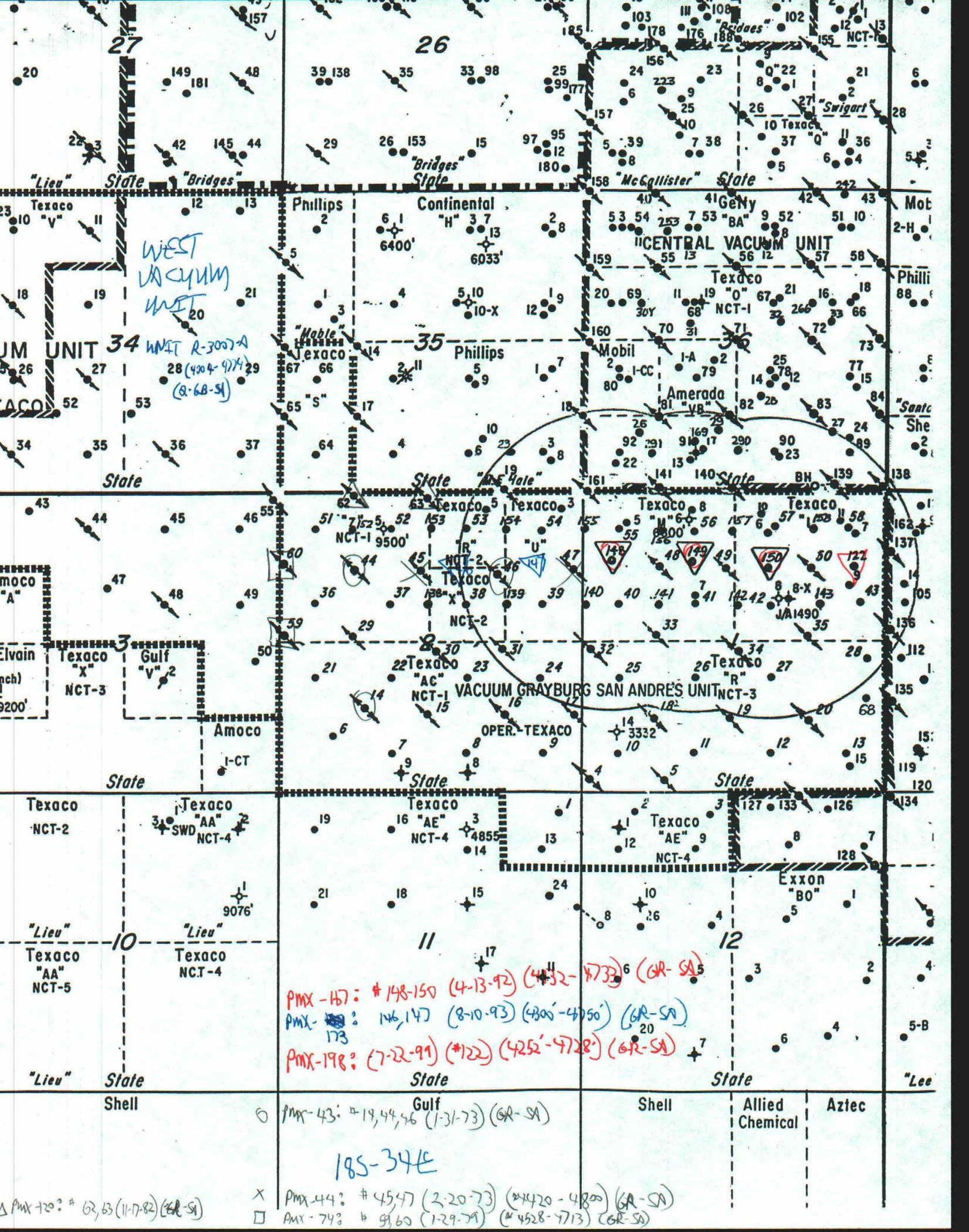
Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees \$ *3.13*

Postmark or Date

APR 11 1995

3800



WEST VACUUM UNIT  
WEST

UNIT 34  
WMT R-3007-A  
28 (4304-4774)  
(8-68-51)

PMX-157: # 148-150 (4-13-92) (4332-4733) (GR-SA)  
 PMX-173: # 146, 147 (8-10-93) (4800-4750) (GR-SA)  
 PMX-198: (7-22-99) (#122) (4252-4728) (GR-SA)

PMX-43: # 19, 44, 46 (1-31-73) (GR-SA)

185-34E

PMX-44: # 45, 47 (2-20-73) (4420-4800) (GR-SA)  
 PMX-74: # 91, 60 (1-29-79) (4528-4713) (GR-SA)

PMX-70: # 62, 63 (11-17-82) (GR-SA)