



# PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762  
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP  
Permian Basin Region

July 12, 1984

Order R-5897- Expansion of  
Authority by Administrative Action  
East Vacuum Gb/San Andres Unit,  
Vacuum Gb/San Andres Pool,  
Lea County, New Mexico

New Mexico Department of Energy-3  
Oil and Gas Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,  
Division Director

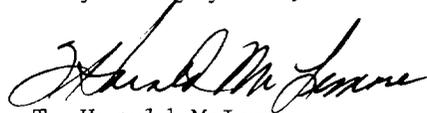
Gentlemen:

Administrative approval, provided by R-5897 and Statewide Rule 701 B(3) E(3), is requested on the captioned attached application. Such action will allow conversion of Tract 3127 well no. 004 to water injection service.

Texaco Inc. is the only offset operator while the State of New Mexico is the surface land owner. By certified mail copy hereof, their waivers of objections are requested.

Your consideration is appreciated. Please call me-(915) 367-1257- if you have any question.

Very truly yours,

  
T. Harold McLemore

THM/dkc  
Attachments

cc: New Mexico Oil Conservation Division  
Box 1980  
Hobbs, New Mexico

Texaco Inc.                      Offset Operator  
Box 728  
Hobbs, New Mexico 88240

Certified Mail

July 12, 1984  
New Mexico Department of Energy- 3  
Page 2

State of New Mexico            Surface Land Owner  
office of State Land Commissioner  
Box 1148  
State Land Office Building  
Santa Fe, New Mexico 87501

Certified Mail

Attachments

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  yes  no
- II. Operator: Phillips Petroleum Co.  
Address: Room 401, 4001 Penbrook, Odessa, Tx. 79762  
Contact party: Mr. E. E. Clark Phone: (915) 367-1257 (McLemore)
- 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 R-5897.
- 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: W. J. Mueller Title \_\_\_\_\_

Signature: W. J. Mueller for W. J. Mueller Date: 6-26-84

- \* 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. Examiner Hearing, October 25, 1978, Case No. 6367, R-5897

## 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:

-- See Attached Data Sheet --

- (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.

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.

PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

N. M. O. C. D. R-5897

VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 3127 WELL 004

CONVERSION TO WATER INJECTION STATUS

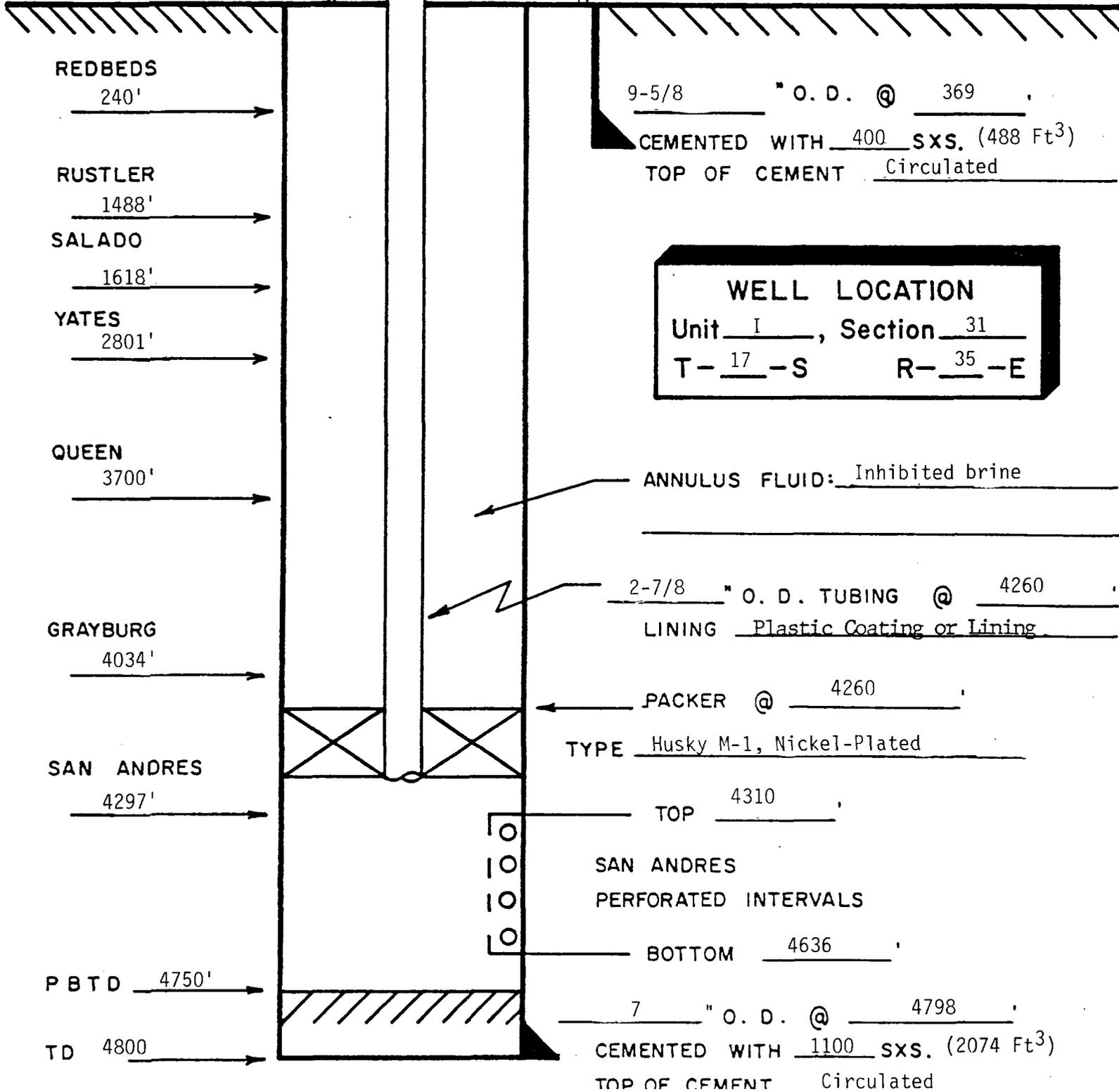
Record Only:

State Lease No. B-1527

ANNULUS PRESSURE  
GAUGE

PRESSURE CONTROL TYPE: Electronic Rate  
Pressure Controller

BRADENHEAD MONITOR



9-5/8 " O. D. @ 369  
CEMENTED WITH 400 SXS. (488 Ft<sup>3</sup>)  
TOP OF CEMENT Circulated

**WELL LOCATION**  
Unit I, Section 31  
T-17-S R-35-E

ANNULUS FLUID: Inhibited brine

2-7/8 " O. D. TUBING @ 4260  
LINING Plastic Coating or Lining

PACKER @ 4260  
TYPE Husky M-1, Nickel-Plated

TOP 4310  
SAN ANDRES  
PERFORATED INTERVALS  
BOTTOM 4636

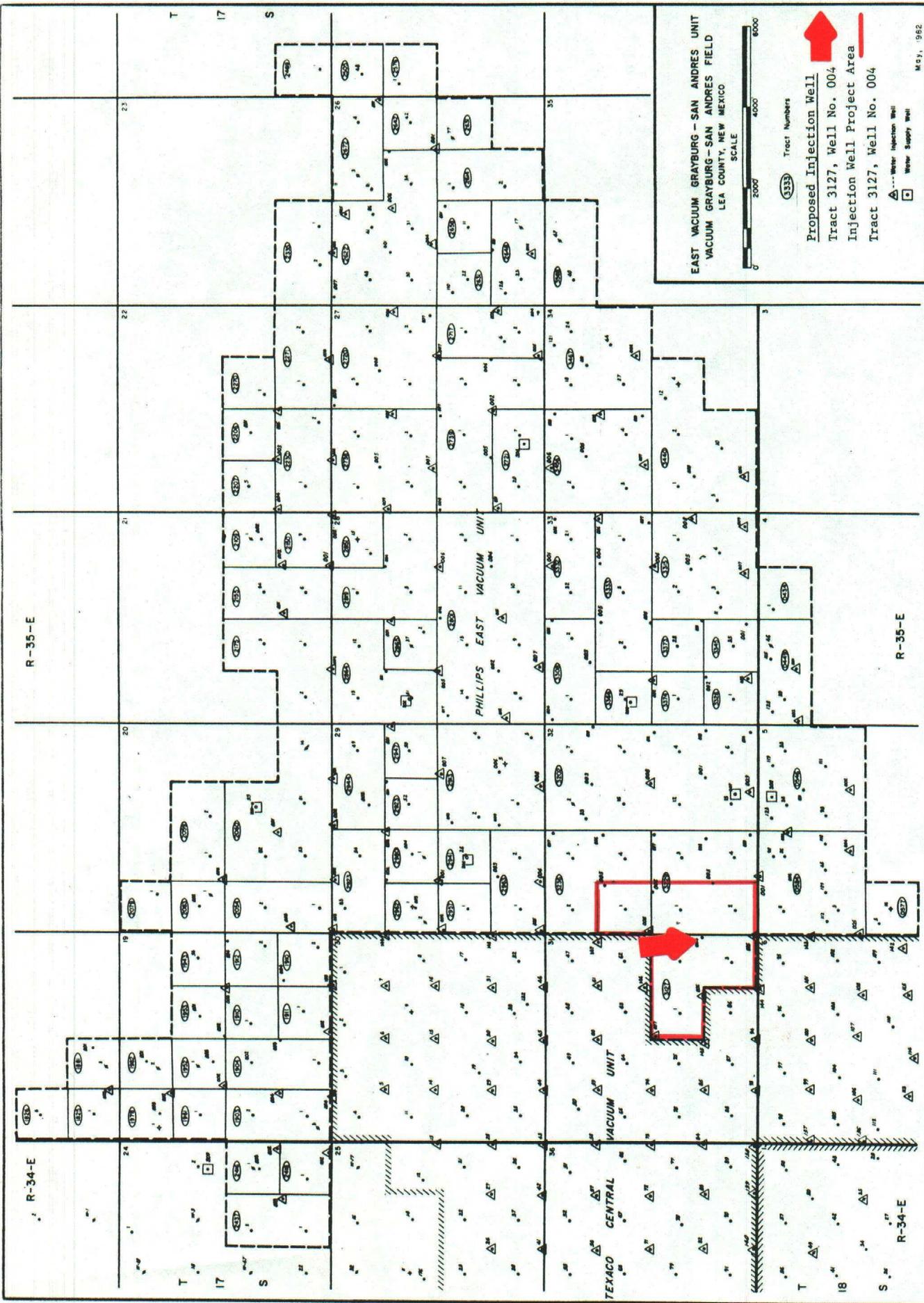
7 " O. D. @ 4798  
CEMENTED WITH 1100 SXS. (2074 Ft<sup>3</sup>)  
TOP OF CEMENT Circulated



Phillips Petroleum Company  
R-5897, Project Expansion  
East Vacuum Ga/San Andres Unit  
Tract 3127, No. 004  
Form C-108

Article VII: Data on proposed operation

1. Fluid injection rates: average 1500 BWPD: Maximum 3000 BWPD
2. Closed system
3. Injection pressures: average: 1000; maximum 1350
4. Sources, analysis, and compatability of injection fluids submitted in case no 6367 (Order R-5897).



EAST VACUUM GRAYBURG - SAN ANDRES UNIT  
 VACUUM GRAYBURG - SAN ANDRES FIELD  
 LEA COUNTY, NEW MEXICO



(3333) Tract Numbers

Proposed Injection Well

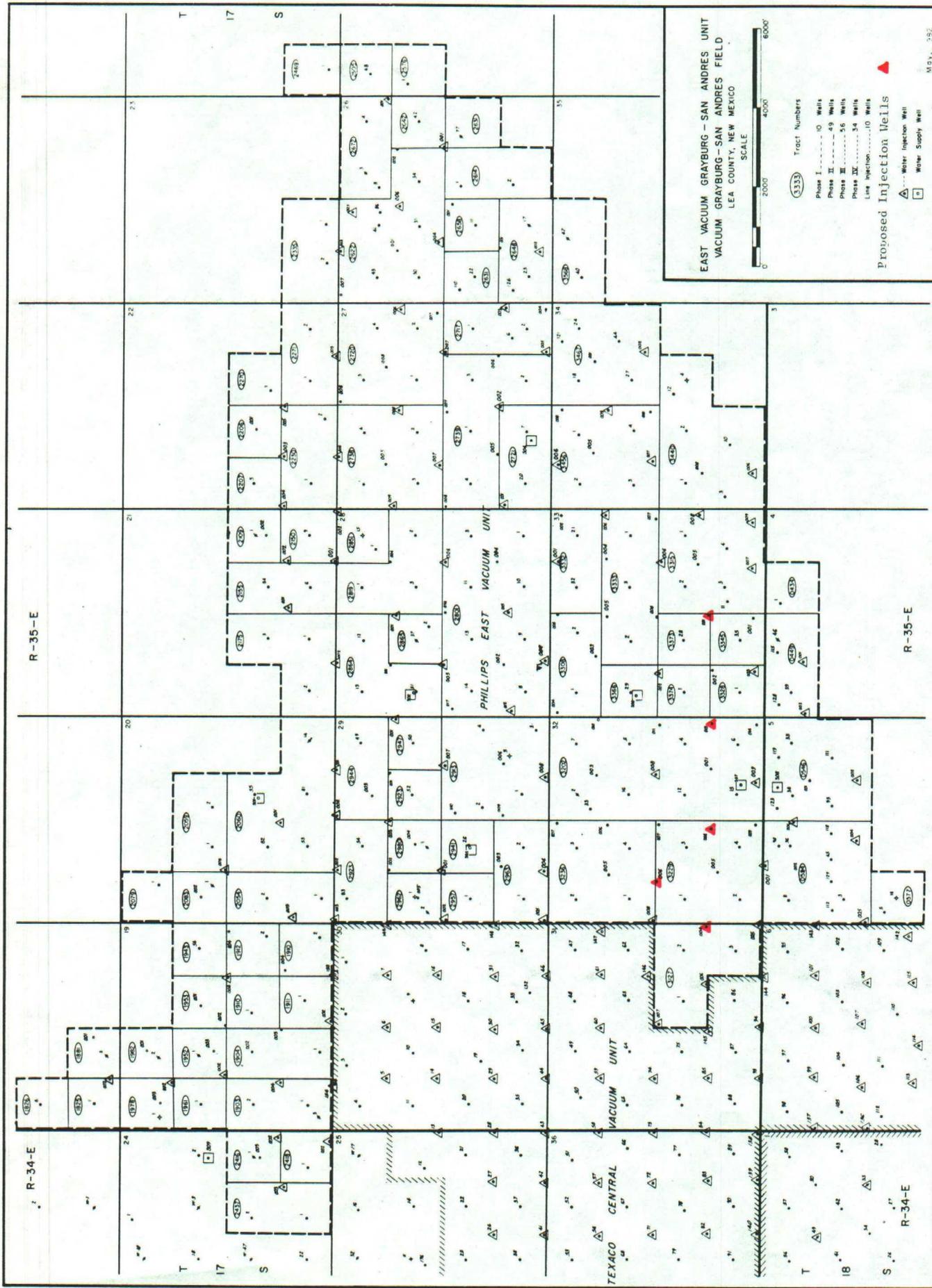
Tract 3127, Well No. 004

Injection Well Project Area

Tract 3127, Well No. 004

▲ Water Injection Well  
 □ Water Supply Well

M.G., 1962



EAST VACUUM GRAYBURG - SAN ANDRES UNIT  
 VACUUM GRAYBURG - SAN ANDRES FIELD  
 LEA COUNTY, NEW MEXICO

SCALE  
 0 2000 4000 6000

Tract Numbers  
 Phase I ..... 10 Wells  
 Phase II ..... 49 Wells  
 Phase III ..... 56 Wells  
 Low Injection ..... 24 Wells

Proposed Injection Wells  
 ▲ Water Injection Well  
 □ Water Supply Well

MAY, 1952

**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

July 3, 19 84

and ending with the issue dated

July 3, 19 84

Robert L. Summers  
Publisher.

Sworn and subscribed to before

me this 10 day of

July, 19 84  
Jane Paulowsky  
Notary Public.

My Commission expires

3-24, 19 87

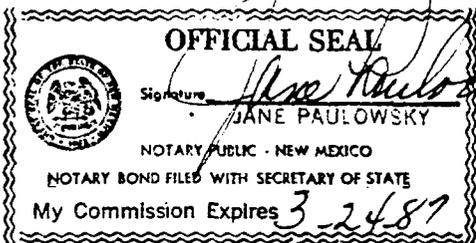
(Seal)

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.

Received

JUL 13 1984

**30** LEGAL NOTICE  
July 3, 1984  
NOTICE is hereby given of the application of Phillips Petroleum Company, Attention: E. E. Clark, Manager of Operations, 4001 Penbrook Street, Odessa, Texas 79762 - telephone (915) 367-1290, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well(s) for the purpose of Pressure Maintenance Project in oil production Well(s) No(s): Tract 3127, Well No. 004 Lease/Unit Name: East Vacuum Grayburg/San Andres Unit Location: Unit 1, Section 31, T-17-S. R-35-E NMPM, Lea County, New Mexico.  
The injection formation is Grayburg/San Andres at a depth of 4310-4626 feet below the surface of the ground. Expected maximum injection rate is 3000 barrels per day and expected maximum injection pressure is 1350 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days of this publication.



**AFFIDAVIT OF PUBLICATION**

State of New Mexico,

County of Lea.

I, \_\_\_\_\_

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

July 3, 19 84

and ending with the issue dated

July 3, 19 84

Robert L. Summers  
Publisher.

Sworn and subscribed to before

me this 10 day of

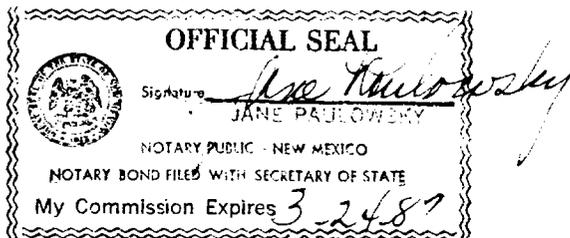
July, 19 84  
Ane Paulowich  
Notary Public.

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

3-24-87, 19 87

(Seal)

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The injection formation is Grayburg/San Andres at a depth of 4310-4636 feet below the surface of the ground. Expected maximum injection rate is 3000 barrels per day and expected maximum injection pressure is 1350 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days of this publication.



**PHILLIPS PETROLEUM COMPANY**  
 EXPLORATION AND PRODUCTION GROUP  
 PERMIAN BASIN REGION  
 4001 PENBROOK  
 ODESSA, TEXAS 79762

**CERTIFIED MAIL**  
 P 273 888 609

Texaco Inc.  
 Box 728  
 Hobbs, New Mexico 88240

PS Form 3811, Dec. 1980

**SENDER:** Complete items 1, 2, 3, and 4.  
 Add your address in the "RETURN TO" space on reverse.

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one).  
 Show to whom and date delivered ..... \$  
 Show to whom, date, and address of delivery.. \$

2.  **RESTRICTED DELIVERY** ..... \$  
*(The restricted delivery fee is charged in addition to the return receipt fee.)*

TOTAL \$

3. **ARTICLE ADDRESSED TO:**  
 Texaco Inc.  
 Box 728  
 Hobbs New Mexico

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**  
 REGISTERED  INSURED  
 **CERTIFIED**  COD  
 EXPRESS MAIL  
 P273888-609

**(Always obtain signature of addressee or agent)**

I have received the article described above.  
**SIGNATURE**  Addressee  Authorized agent

5. **DATE OF DELIVERY** **POSTMARK**

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** **7a. EMPLOYEE'S INITIALS**

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



**PHILLIPS PETROLEUM COMPANY**  
 EXPLORATION AND PRODUCTION GROUP  
 PERMIAN BASIN REGION  
 4001 PENBROOK  
 ODESSA, TEXAS 79762

**CERTIFIED MAIL**  
 P 273 888 610

State of New Mexico  
 Office of State Land Commissioner  
 Box 1148  
 State Land Office Building  
 Santa Fe, New Mexico 87501

PS Form 3811, Dec. 1980

● **SENDER:** Complete items 1, 2, 3, and 4.  
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**(CONSULT POSTMASTER FOR FEES)**

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 Show to whom and date delivered ..... \$  
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2.  **RESTRICTED DELIVERY** ..... \$  
 (The restricted delivery fee is charged in addition to the return receipt fee.)

**TOTAL \$** \_\_\_\_\_

3. **ARTICLE ADDRESSED TO:** State of New Mexico  
 Office of State Land Commissioner  
 Box 1148  
 State Land Office Building 87501  
 Santa Fe, New Mexico

4. <b>TYPE OF SERVICE:</b> <input type="checkbox"/> REGISTERED <input type="checkbox"/> INSURED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> COD <input type="checkbox"/> EXPRESS MAIL	<b>ARTICLE NUMBER</b> P-273-888-610
---	--

**(Always obtain signature of addressee or agent)**

I have received the article described above.  
**SIGNATURE**     Addressee     Authorized agent

5. <b>DATE OF DELIVERY</b>	POSTMARK
6. <b>ADDRESSEE'S ADDRESS</b> (Only if requested)	
7. <b>UNABLE TO DELIVER BECAUSE:</b>	7a. <b>EMPLOYEE'S INITIALS</b>

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79762  
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP  
Permian Basin Region

June 26, 1984

Legal Publication  
East Vacuum Ga/San Andres Unit  
Pressure Maintenance Project  
Lea County, New Mexico

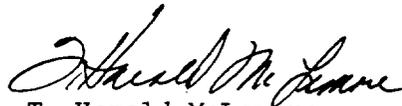
Hobbs News-Sun  
201 N. Thorp  
Hobbs, New Mexico 88240

Gentlemen:

Please publish the attached legal notification on July 3, 1984 to run for one day only. In addition, we request that a certified copy of the published notification be sent for our records. All inquiries and billing should be addressed to Phillips Petroleum Company, Attention: T. Harold McLemore, 4001 Penbrook Odessa, Texas 79762.

Your assistance in this matter is appreciated.

Very truly yours,

  
T. Harold McLemore

THC/dkc  
Attachment

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Well(s) No(s).: Tract 3127, Well No. 004

Lease/Unit Name: East Vacuum Grayburg/San Andres Unit

Location: Unit I, Section 31, T-17-S, R-35-E

\_\_\_\_\_ NMPM,

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STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
 OIL CONSERVATION DIVISION  
 HOBBS DISTRICT OFFICE  
 July 19, 1984

TONY ANAYA  
 GOVERNOR

POST OFFICE BOX 1980  
 HOBBS, NEW MEXICO 88240  
 (505) 393-6161

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

RE: Proposed:  
 MC \_\_\_\_\_  
 DHC \_\_\_\_\_  
 NSL \_\_\_\_\_  
 NSP \_\_\_\_\_  
 SWD \_\_\_\_\_  
 WFX \_\_\_\_\_  
 PMX \_\_\_\_\_ X

Gentlemen:

I have examined the application for the:

Phillips Pet. Co. East Vacuum Gray., SA Unit Tr. 3127	#4-I	31-17-35
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

O.K.----J.S.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Yours very truly,

Jerry Sexton  
 Supervisor, District 1

/mc