



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP

October 29, 1981

Conversion to Water Injection Service--
East Vacuum Grayburg-San Andres Unit,
Lea County, New Mexico

New Mexico Dept. of Energy & Minerals (3)
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
Division Director

Gentlemen:

We respectfully request administrative approval of expansion of waterflood injection well pattern, as provided by Order No. R-5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the following well to water injection service:

<u>TRACT</u>	<u>WELL NO.</u>
1952	002

The following data is submitted in support of this request:

1. Unit plat reflecting the respective injection well and its project area.
2. Diagrammatic sketch of the proposed well, injection tubing, packer, pressure control elements, and identifying the San Andres perforated injection interval.
3. The name of the injection formation is San Andres with injection to be into an approximate well interval. The maximum anticipated injection pressure will be no more than 0.2 psi per foot to the top of the perforations with a maximum daily volume anticipated at 2000 barrels water per day per well.
4. Certified copy of Public Notice by newspaper.
5. List of affected offset operators and surface tenants. (Surface ownership on all tracts is held by the State of New Mexico.)

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6. Notice has been given by certified mail to those entities in Item Five.
(Copies of certified receipts are attached)

Interested parties must file objections or request for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.

Your consideration and early advice will be appreciated.

Very truly yours,



T. Harold McLemore
Regulation and Proration Supervisor

THM:pda
Attachments

cc: Oil Conservation Division ✓
Box 1980,
Hobbs, New Mexico 88240

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

Surface Tenant: Scharbauer Cattle Company
Box 1471,
Midland, Texas 79702

Offset Operators: Mobil Producing Texas & New Mexico
Nine Greenway Plaza,
Houston, Texas 77046

Shell Oil Company
Box 991,
Houston, Texas 77001

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 Company --663680
Address: Room 401, 4001 Penbrook Street, Odessa, Texas, 79762
Contact party: T. Harold McLemore Phone: (915) 367-1257
- 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:
500 2000
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; 900
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 Sr. Engineering Specialist

Signature: [Signature] Date: October 29, 1981

** 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, Order R-5897

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

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.

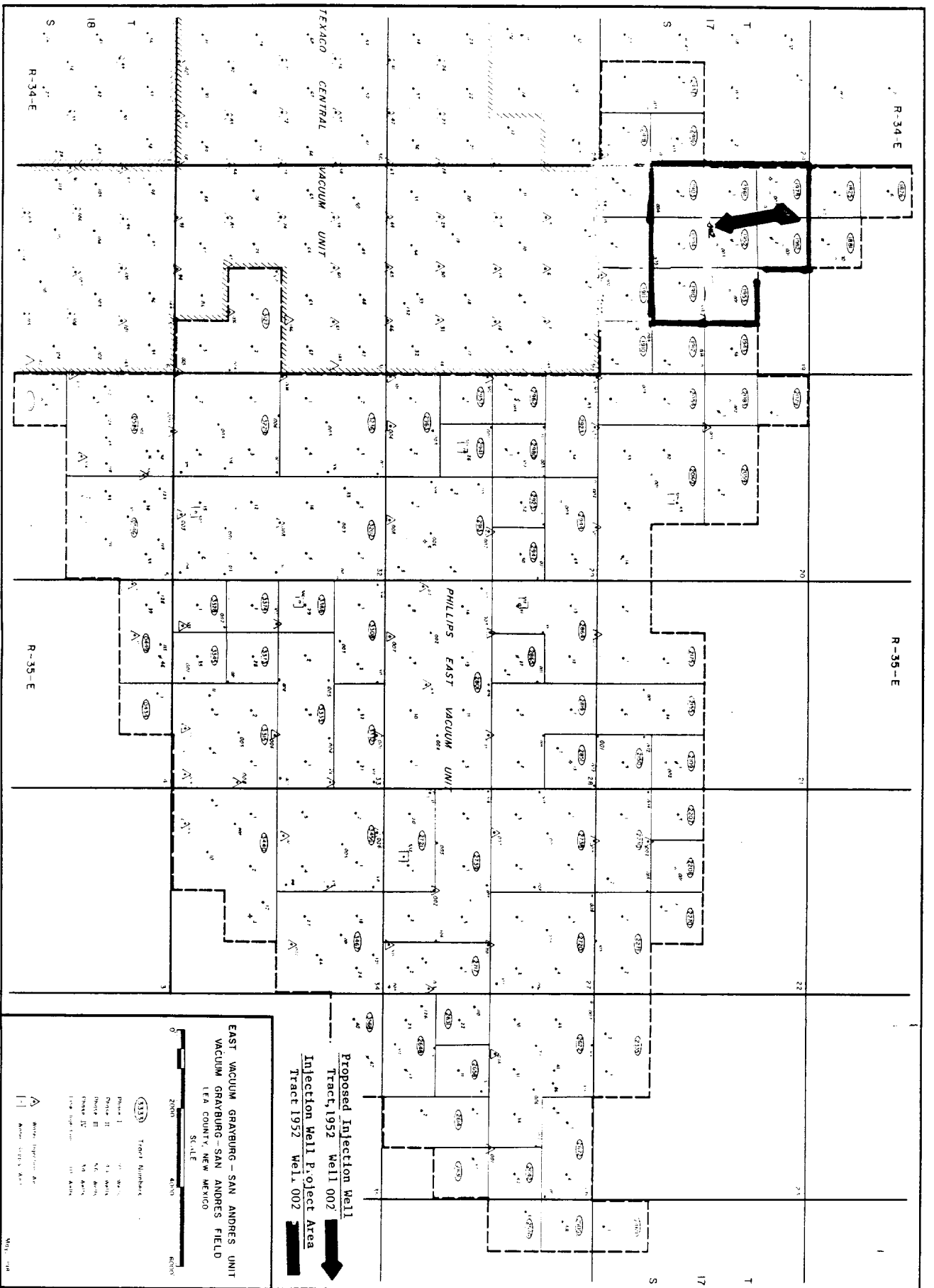
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

The standard stimulation procedure will be applied in general, to all injection wells:

- (1) Acidize with approximately 200 bbls. acid per foot of perforations.
- (2) Fracture with approximately 1500# sand for every foot of perforations.

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OFFSET OPERATORS

PHILLIPS PETROLEUM COMPANY

Mobil

Shell

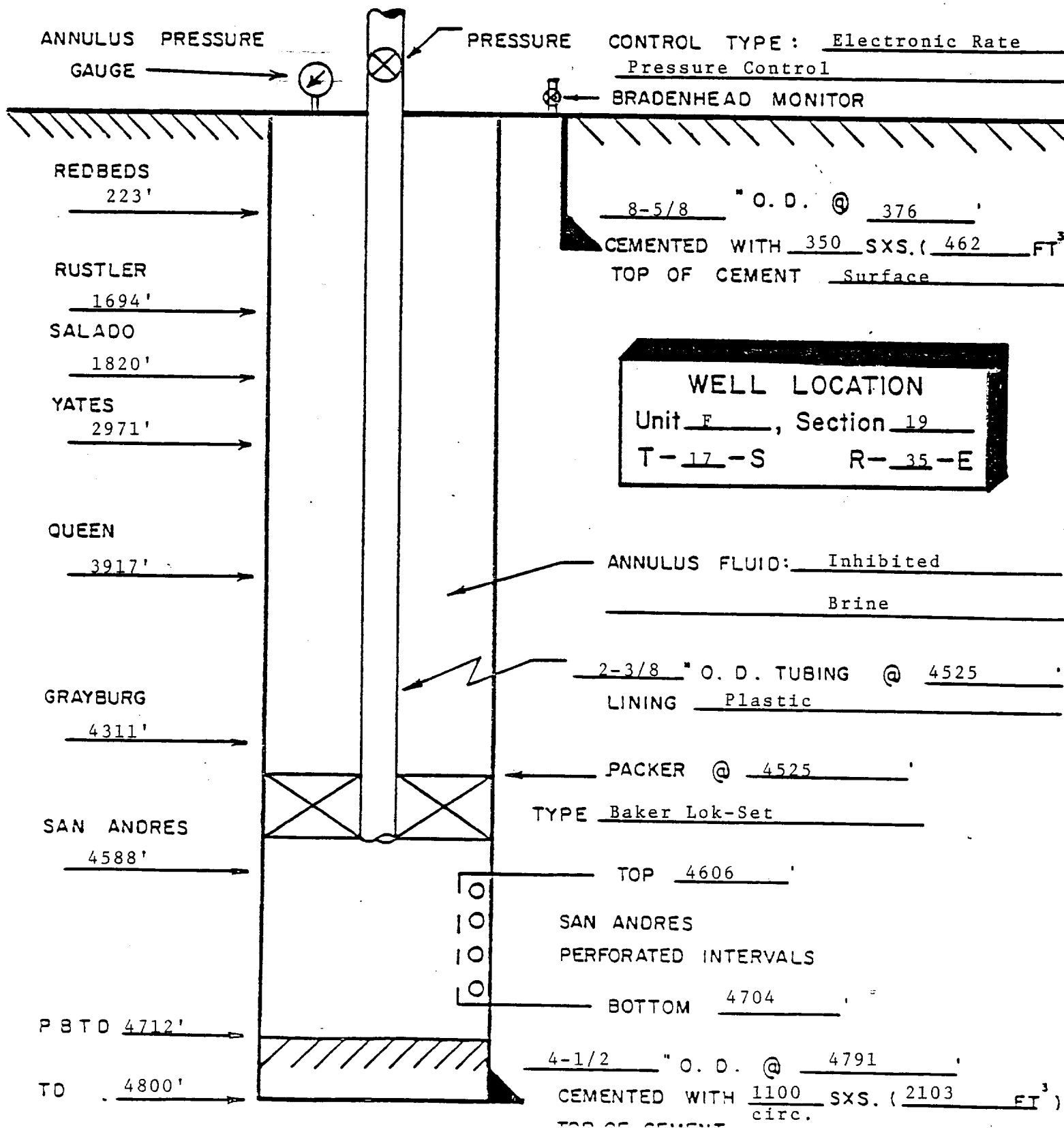
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

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

TRACT 1952 WELL 002

CONVERSION TO WATER INJECTION STATUS



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 DAY weeks.

Beginning with the issue dated

NOVEMBER 4, 1981

and ending with the issue dated

NOVEMBER 4, 1981

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 4th day of

NOVEMBER, 1981

Notary Public.

My Commission expires _____

(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

NOVEMBER 4, 1981

NOTICE is hereby given of the application of Phillips Petroleum Company, Attention: B.Z. Parker, Manager of Operations, 4001 Penbrook Street, Odessa, Texas 79762-telephone (915) 367-1260, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well(s) for the purpose of pressure maintenance and enhancement recovery.

Well(s) No (s): Track 1952 No. 002

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

Location: Sec. 19, T-17-S, R-35-E NMPM, Lea County, New Mexico.

The injection formation is Grayburg-San Andres at a depth of 4655 feet below the surface of the ground. Expected maximum injection rate is 500 barrels per day, and expected maximum injection pressure is 900 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.

OFFICIAL SEAL

Signature *Debie Burns*
DEBIE BURNS

NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 8-26-84