



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

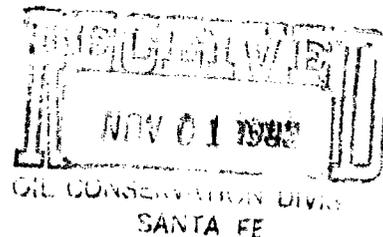
October 22, 1982

Re: Order R-3154 - Expansion of
Waterflood Project;
Phillips E State No. 19
J, 15, 17S, 33E, Lea County

New Mexico Department of Energy and Minerals - (2)
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,
Division Director

Gentlemen:



Enclosed for administrative processing is subject application for an expansion of waterflood project. Exhibits included are:

1. Form C-108 "Application for Authorization to Inject"
2. Well identification plat
3. Data sheet on wells in area of review
4. Data sheet on proposed operation
5. Certified mail receipts
6. Notice of newspaper publication
7. Electric logs of well and typical water analysis have previously been furnished.

Inquiries should be directed to this office to the attention of Mr. J. E. Pickett, telephone (915)367-1391. Your consideration is appreciated.

Very truly yours,

T. Harold McLemore
Regulation and Proration Supervisor

THM:ap
Attachments

cc: Oil Conservation Division, Hobbs, New Mexico

Commissioner of Public Lands, State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Attachments

NOV 01 1982

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

Address: Room 401, 4001 Penbrook, Odessa, Texas 79761

Contact party: Mr. E. E. Clark Phone: 367-1257 (McLemore)
Phillips "E" State Lease, Lea County

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-3154

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:
(See attached proposed operation sheet.)
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. None

* 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 Senior Engineering Specialist

Signature: [Signature] Date: 10/15/82

* 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.

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.

Operator: Phillips Petroleum Company

Lease & Well No. Leamex #18

Type Oil

Date Drilled 1-21-74

Location Sec. 15, T-17-S, R-33-E, 1980' FSL & 660'
FWL, Lea Co., New Mexico

Field & Zone Maljamar, Grayburg-San Andres

Tubing & Pump Data: Make, Type, Where Set, Etc.:

2-3/8" @ 4300'

2" X 1-1/4" X 15'

Packer Data: Make, Type, Where Set, Etc.:

Casing perms, HPF, Total Holes, Etc.:

4355 - 4360' 20 holes

4408 - 4413' 20 holes

4446 - 4451' 20 holes

RKB @ _____'

GL @ 4173'

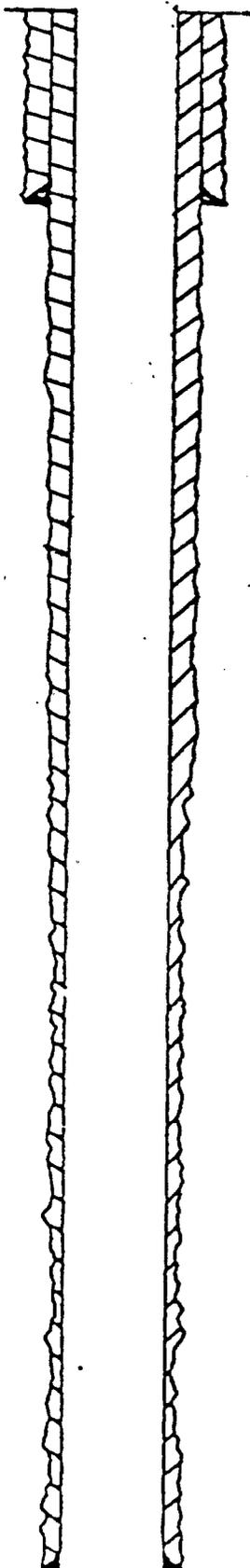
SURFACE CSG:

8-5/8" @ 424'

Cmtd w/ 300 sx

TOC @ surface

Hole 12-1/4"



PRODUCTION CSG:

4-1/2" @ 4530'

Cmtd w/ 300 sx

TOC @ 2390'

Hole 7-7/8"

PTD 4495'

TD 4540'

Operator: Phillips Petroleum Company

Lease & Well No. Phillips "E" State #14

Type Water Injection

Date Drilled 5-27-70

Location Sec. 15, T-17-S, R-33-E, 660' ENL, 1980' EEL,
Lea Co., New Mexico

Field & Zone Maljamar, Grayburg San Andres

Tubing & Pump Data: Make, Type, Where Set, Etc.:
2-3/8" @ 4309'

Packer Data: Make, Type, Where Set, Etc.:
Baker AD-1 packer @4309'

Casing perfs, HPF, Total Holes, Etc.: -
4379 - 4384' 20 holes
4428 - 4433' 20 holes
4469 - 4474' 20 holes

RKB @ 4170

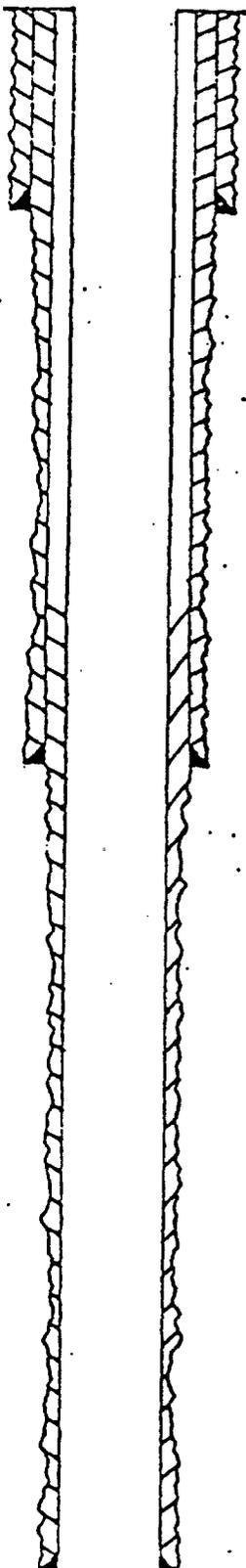
FL @ 4160

SURFACE CSG:
8-5/8" @ 360'
Cmtd w/ 300 sx
TOC @ surface
Hole 12-1/4"

INTERMEDIATE CSG:
Note @ -'
Cmtd w/ -
TOC @ -
Hole -

PRODUCTION CSG:
4-1/2" @ 4600'
Cmtd w/ 275 sx
TOC @ 2550'
Hole 7-7/8"

TD 4585'
D 4600'



KB @ 4156

HL @ 4143

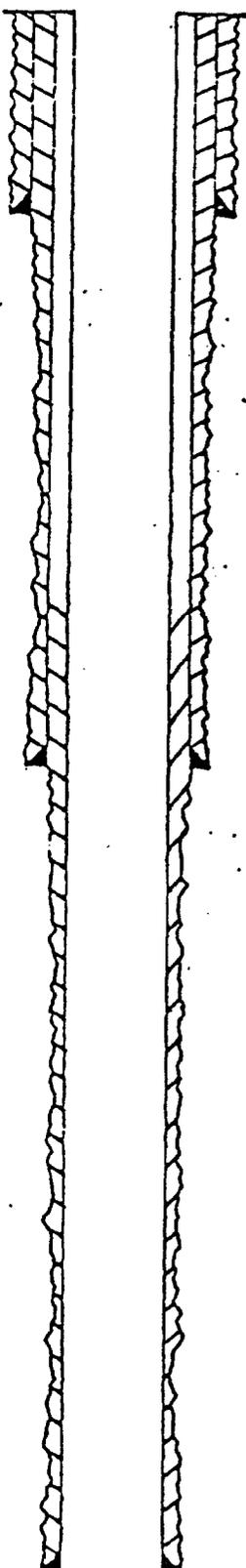
SURFACE CSG:
3-3/8" @ 364'
Cmtd w/ 450
FOC @ surface
Hole 17-1/2"

INTERMEDIATE CSG:
8-5/8" @ 4299'
Cmtd w/ 500
FOC @ 2700
Hole 11"

PRODUCTION CSG:
5-1/2" @ 11,400
Cmtd w/ 1150
FOC @ 4320
Hole 7-7/8"

TD 4,550

D 11,400



Operator: Phillips Petroleum Company

Lease & Well No. Phillips "E" State #15

Type Oil

Date Drilled 11/16/72

Location Sec. 14, T-17-S, R-33-E, 1980 FSL & 660 FWL,
Lea Co. New Mexico

Field & Zone Maljamar Grayburg-San Andres

Tubing & Pump Data: Make, Type, Where Set, Etc.:
2-3/8" @ 4478'
pump 2" X 1-1/4" X 18' @4500'

Packer Data: Make, Type, Where Set, Etc.:

Casing perfs, HPF, Total Holes, Etc.: -
4471' - 4476', 5 ft, 10 holes
4418' - 4423', 5 ft, 10 holes

RKB @ 4184'

GL @ 4174'

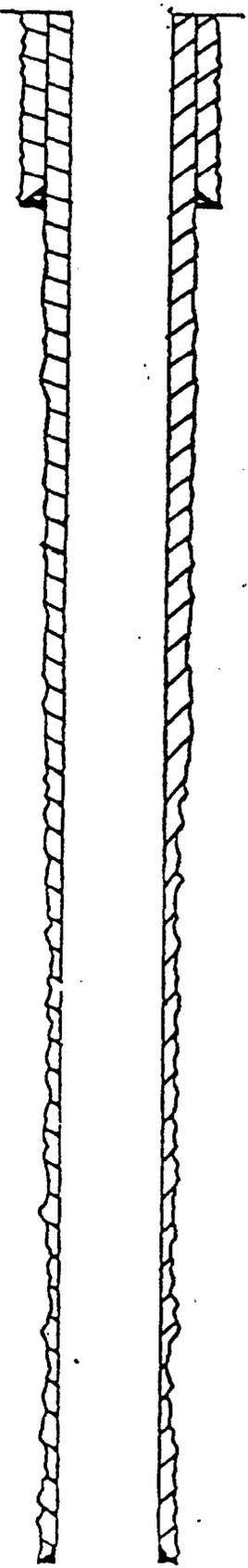
SURFACE CSG:
8-5/8" @ 424"
Cmtd w/ 300 sx
TOC @ surface

Hole 12-1/4"

PRODUCTION CSG:
4-1/2" @ 4539'
Cmtd w/ 300 sx
TOC @ 2800'

Hole 7-7/8"

TD 4504'
TD 4540'



Operator: Phillips Petroleum Company

Lease & Well No. Phillips "E" State #18

Type Oil

Date Drilled 2-8-74

Location Sec 15, T-17-S, R-33-E, 1980' FNL & 1980' FWL,
Lea Co., New Mexico

Field & Zone Maljamar, Grayburg, San Andres

Tubing & Pump Data: Make, Type, Where Set, Etc.:

2-3/8" @ 4350'

2" X 1-1/4" X 18' @4492'

Packer Data: Make, Type, Where Set, Etc.:

Casing perms, HPF, Total Holes, Etc.:

4382 - 4387' 20 holes jet

4435 - 4440' 20 holes jet

4484 - 4489' 20 holes jumbo jet

RKB @ 4161'

GL @ 4152'

SURFACE CSG:
8-5/8" @ 406'
Cmt'd w/ 375 sx
TOC @ surface

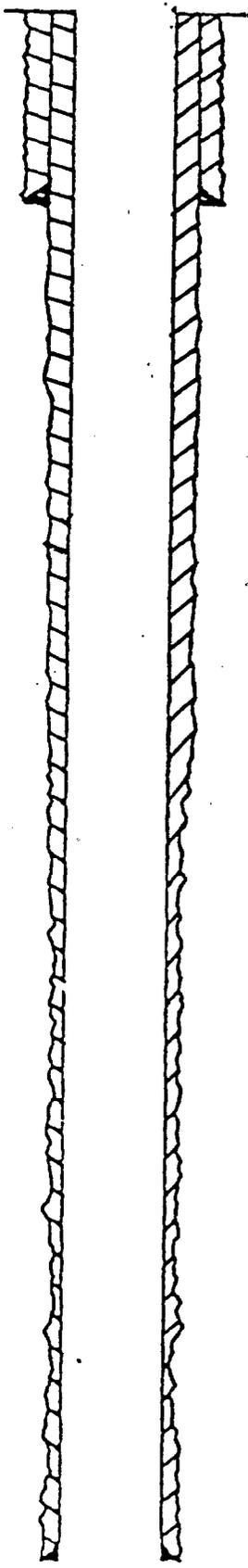
Hole 12-1/4"

PRODUCTION CSG:
5-1/2" @ 4570'
Cmt'd w/ 275 sx
TOC @ 2600'

Hole 7-7/8"

TD 4541'

D 4570'



Operator: Phillips Petroleum Company

Lease & Well No. Phillips "E" State #20

Type Oil

Date Drilled 5-2-75

Location Sec 15, T-17-S, R-33-E, 1980' FNL and 660' FEL,
Lea Co., New Mexico

Field & Zone Maljamar, Grayburg-San Andres

Tubing & Pump Data: Make, Type, Where Set, Etc.:

2-3/8" @ 4500'

2" X 1-1/4" X 16' @ 4502'

Packer Data: Make, Type, Where Set, Etc.:

Casing perfs, HPF, Total Holes, Etc.:

4398' - 4403' 20 holes

4450' - 4455' 20 holes

4491' - 4496' 20 holes

Phillips Petroleum Company
Phillips E State Lease
Well No. 19

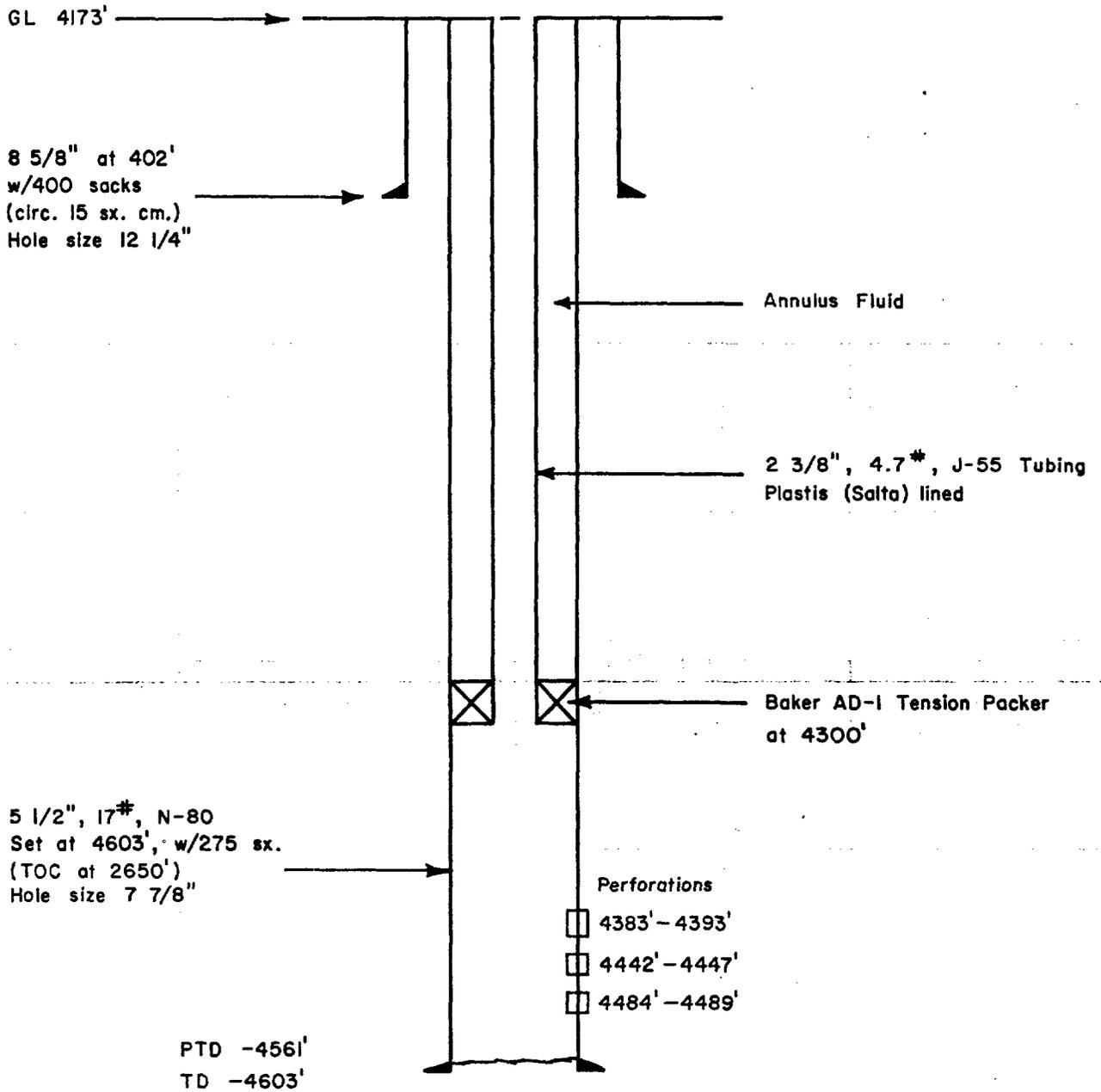
DATA ON PROPOSED OPERATION
MALJAMAR GRAYBURG - SAN ANDRES

VII Proposed operation:

- (1) Average rate: 330 barrels fluid per day
Maximum rate: 600 barrels fluid per day
- (2) Closed
- (3) Average pressure: 2600 psi; Maximum pressure: 3000 psi
- (4) Source of fluid: Produced water and fresh water via Continental's
water supply system
- (5) N/A

III. Well Data

- A. (1) Phillips "E" State No. 19; Section 15, T-17-S, R-33-E,
1980' FSL and 1980' FEL.
- (2) Casing:
Surface: 8-5/8" O.D. Set at 402'. Cemented with 400 sacks,
in a 12-1/4" hole. Cement circulated.
Production: 5 1/2", 17#, N-80, set at 4603'. Cemented with
275 sacks, in a 7-7/8" hole. Cement to 2650', temp survey.
- (3) Tubing: 2-3/8", 4.7#, J-55, EUE set at 4500', plastic lined.
- (4) Packer: Baker AD-1 Tension Packer set at 4300'.
- B. (1) Formation: Grayburg, San Andres Field: Maljamar
- (2) Injection interval: 4383' to 4489', perforated
- (3) Well drilled originally for production.
- (4) N/A
- (5) N/A in this wellbore.



Proposed Completion For Water Injection

NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	<div style="display: flex; justify-content: space-between; align-items: center;"> PHILLIPS PETROLEUM COMPANY </div> <p style="text-align: center;">BARTLESVILLE, OKLAHOMA</p> <p style="text-align: center;">Phillips "E" State Well #19 1980' FSL, 1980' FEL, Sec. 15, T-17-S, R-33-E Lea County, New Mexico</p>			AFE NO.	FILE CODE
FOR APPR				SCALE UNLESS OTHERWISE NOTED	
FOR CONST				DWG NO.	
DRAWN		SH NO.			
CHECKED					
APP'D					

Phillips Petroleum Company
Phillips "E" State Well No. 19
J,15, 17S, 33E
Lea County

Owners of Surface: State of New Mexico
Land Commissioner
Box 1148
Santa Fe, N.M. 87501

Leasehold Operators
within 1/2 mile of wells: Phillips Petroleum Company



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP

October 18, 1982

Hobbs News Sun
P.O. Box 860
Hobbs, New Mexico 88240

Attention: Classified Department

Gentlemen:

Please run the enclosed legal notice on the earliest possible date during the week of October 18, 1982, through October 22, 1982.

I will require a certified copy of the ad, mailed to the letterhead address and my attention. In addition, your bill for the publication should be mailed in the same manner.

Yours truly,

A handwritten signature in cursive script, appearing to read "T. Harold McLemore".

T. Harold McLemore
Regulation and Proration Supervisor

THM:adk
Attachment

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 water injection in an existing operation.

Well(s) No(s).: 19

Lease/Unit Name: Phillips "E" State

Location: Unit J. Section 15, T-17-S, R-33-E

NMPM,

Lea County, New Mexico.

The injection formation is Grayburg/San Andres at a depth of 4383'to 4489feet below the surface of the ground. Expected maximum injection rate is 600 barrels per day, and expected maximum injection pressure is 3000 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.

P 204 644 087

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse) 10/27/8 ✓

PS Form 3800, Apr. 1976

SENT TO	
<i>Commissioner of Public Health</i>	
STREET AND NO.	
<i>Box 1148</i>	
P.O., STATE AND ZIP CODE	
<i>State Fe, N.M. 87501</i>	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED ✓	¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	

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

OCTOBER 22, 1982

and ending with the issue dated

OCTOBER 22, 1982

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 22ND day of

OCTOBER, 1982

Suzette Haegle
Notary Public.

My Commission expires _____

March 29, 1986

(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.

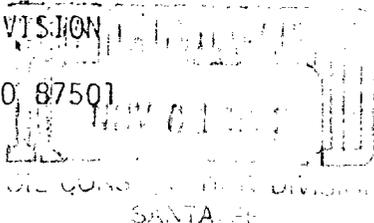
LEGAL NOTICE

October 22, 1982

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 water injection in an existing operation. Well(s) No(s): 19. Lease/Unit Name: Phillips "E" State. Location: Unit J, Section 15, T-17-S, R-33-E. NMPM, Lea County, New Mexico. The injection formation is Grayburg/San Andres at a depth of 4383' to 4489 feet below the surface of the ground. Expected maximum injection rate is 600 barrels per day, and expected maximum injection pressure is 3000 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.

OIL CONSERVATION DIVISION
DISTRICT I

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



DATE October 29, 1982

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX X _____
Proposed PMX _____

Gentlemen:

I have examined the application for the:

Phillips Petroleum Co.	Phillipe "E" State	No. 19-J	15-17-33
Operator	Lease and Well No.	Unit, S - T - R	

and my recommendations are as follows:

Normal pressure limits should be set until step rate tests are run---J.S.

Yours very truly,

/mc