

APPLICATION FOR AUTHORIZATION TO INJECT

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

(Telecon M. A. Schmeckle/R.L. Stamets:Re-Order R3154 And this project)
II. Operator: Phillips Oil Company

Address: Room 401, 4001 Penbrook St., 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-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:

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.

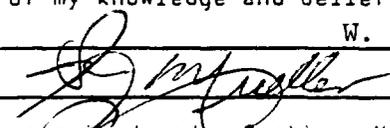
XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

**SEE REMARKS REVERSE SIDE

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:  Date: 9-26-84

* 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. November 16 1966; Case 3485, R-3154

*Includes Phillip-E State Nos. 30 and 33, and Leamex Nos. 19, 29 and 33

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.

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 owns all offsets within 1/2 mile of each respective injection well proposed herein. A copy of this filing has been posted, certified mail, to the New Mexico Commissioner of Public Lands.

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

September 19, 19 84

and ending with the issue dated

September 19, 19 84

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 20 day of

Sept., 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.

LEGAL NOTICE
30 SEPTEMBER 19, 1984
NOTICE is hereby given of the application of Phillips Oil 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 expansion of the Northeast-Mal-jamar Waterflood Project Well(s) No(s): (1) Nos. 30 and 33; (2) Nos. 19, 29 and 33 Lease/Unit Name: (1) Phillips E State; (2) Leamex Location: Sections 13, 14 and 24, T-17-S, R-3-E NMPM, Lea County, New Mexico.
The injection formation is Grayburg/San Andres at a depth of 4197-4645 feet below the surface of the ground. Expected maximum injection rate is 600 barrels per day, each well; 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 days of this publication.





PHILLIPS OIL COMPANY

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

PERMIAN BASIN REGION

ODESSA, TEXAS 79762
4001 PENBROOK

September 14, 1984

"NOTICE OF INJECTION APPLICATION -
Northeast Maljamar Waterflood
Project Expansion,"
Lease Notices -
Lea County, New Mexico.

Hobbs News-Sun
201 North Thorp
Hobbs, New Mexico 88240

Attention: Legal Notices, Classified

Gentlemen:

Please publish on September 19, 1984, for one day only, the attached legal notice concerning our captioned application.

Please complete and return the attached affidavit of publication along with the usual copy of the ad. Direct your billing to my attention.

Very truly yours,

T. Harold McLemore
Regulation and Proration Supervisor

THM:gmt

Attachments.

NOTICE is hereby given of the application of Phillips Oil 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 expansion of the Northeast Maljamar Waterflood Project

Well(s) No(s).: (1) Nos. 30 and 33; (2) Nos. 19, 29 and 33

Lease/Unit Name: (1) Phillips E State; (2) Leamex

Location: Sections 13, 14 and 24, T-17-S, R-33-E

NMPM,

Lea County, New Mexico.

The injection formation is Grayburg/San Andres at a depth of 4197-4645 feet below the surface of the ground. Expected maximum injection rate is 600 barrels per day, well^{each}, 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 days of this publication.



PHILLIPS OIL COMPANY

A SUBSIDIARY OF ESSEX CORP.

PERMIAN BASIN REGION
4001 PENBROOK
ODESSA, TEXAS 79762

CERTIFIED

P 503 931 294

MAIL

Form 3A 3-76



FROM
PHILLIPS OIL COMPANY

Attn: T. Harold McLemore
Room 401, 4001 Penbrook St.
NAME Odessa, Texas 79762

1st Class	3rd Class	4th Class	Insured Mail	Certified Mail	Registered Mail	Special Delivery	Express	Air Express	Air Freight	Other
				XXXXXX						

To
Commissioner of Public Lands
State of New Mexico
Box 1148
Santa Fe, New Mexico 87501

PHILLIPS OIL COMPANY

Expansion - Northeast Maljamar WF Project - Form C-108

III. WELL DATA

- A. 1) Phillips 'E' State Well No. 30
Unit Letter L, 1980' FSL and 660' FWL,
Section 13, T-17-S, R-33-E, Lea County, New Mexico
- 2) Surface casing: 8-5/8" O.D., 24#/ft, set at 400'
12-1/4" hole, cemented with 400 sx,
cement circulated.
- Production casing: 4-1/2" O.D., 11.6#/ft, set at 4705',
7-7/8" hole, cemented with 850 sx,
cement circulated.
- 3) Tubing: 2-3/8" O.D., 4.7#/ft, J-55, EUE, set at 4300'
plastic lined
- 4) Packer: Baker AD-1 tension packer set at 4300'.
- B. 1) Maljamar (Grayburg - San Andres) Field
- 2) Injection interval: 4432'-4582' (perforated)
- 3) Well drilled originally for production
- 4) No additional perforated intervals
- 5) No additional productive zones in the area.

VII. PROPOSED OPERATION

1. Injection rate: 330 BWP (Average)
600 BWP (Maximum)
2. Closed system
3. Injection pressure: 2600 psi (Average)
3000 psi (Maximum)

An application for permission to inject at pressures greater than the statewide limitation will be filed upon completion of the well for injection operations.

4. Source of injection fluids: Produced water and fresh water via Continental's water supply system.
5. N/A

IX. No stimulation program proposed.

GL@4130'

12-1/4" hole
 8-5/8" O.D., 24#/ft., @ 400'
 400 sx., cement circulated

Rustler @ 1502' (+2743)

Yates @ 2795' (+1346)

Queen @ 3802' (+339')

2-3/8" O.D., 4.7#/ft., J-55, EUE
 tubing, plastic lined

Baker AD-1 tension packer @ 4300'

Grayburg @ 4310' (-169')

Perforations (2 JSPPF)

- 4432' - 4437'
- 4469' - 4476'
- 4526' - 4531'
- 4569' - 4572'
- 4578' - 4582'

San Andres @ 4600' (-459')

PTD 4689'

7-7/8" hole

X X X X
 X X X X
 X X X X

TD 4705'

4-1/2" O.D., 11.6#/ft., @ 4705'
 850 sx., cement circulated

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 BARTLESVILLE, OKLAHOMA </div>				JA NO.	FILE CODE
FOR APPR					AFE NO.	SCALE
FOR CONST					PHILLIPS 'E' STATE WELL NO. 30 Unit letter L, 1980' FSL, 660' FWL, Sec. 13, T-17-S, R-33-E, Lea Co., N.M.	
DRAWN					DWG NO.	
CHECKED					SH NO.	
APP'D						

GL@4139'

Plug #4
48'-surface



12-1/4" hole @ 315'
8-5/8" 28 #/ft., @ 315'
150 sx, cement circulated

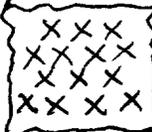
Plug #3
1650'-1616'



Plug #2
2900'-2866'



Plug #1
4793'-TD
TD 4831'



7-7/8" hole

Plugged and Abandoned Well Sketch					
NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY 			JA NO	FILE CODE
FOR APPR	BARTLESVILLE, OKLAHOMA			AFE NO.	SCALE
FOR CONST	'D' STATE WELL No. 1 (Cabeen) Unit Letter D, 660' FNL, 663' FWL, Sec. 13, T-17-S, R-33-E, Lea Co., N.M.			DWG NO.	
DRAWN				SH NO.	
CHECKED					
APP'D					

LEASE / WELL NO.	U S T R	TD (PBD)	TYPE	HOLE SIZE	CASING SIZE	DEPTH	CEMENT	TOC	REMARKS
LEAMIX #19	D 24 175 33E	4700'	OIL	12-1/4"	3-5/8"	450'	600SX	CIRC	PREPARED INJECTION WELL
		(4644')		7-7/8"	4-1/2"	4650'	1400SX	CIRC	G/SA PERFORATIONS 4200'-4660'
HILLARY E' STATE #27	H 14 175 33E	4685'	OIL	12-1/4"	8-5/8"	422'	400SX	CIRC	
		(4660')		7-7/8"	4-1/2"	4685'	1200SX	CIRC	G/SA PERFORATIONS 4478'-4646'
HILLARY E' STATE #28	J 14 175 33E	4888'	OIL	12-1/4"	8-5/8"	457'	400SX	CIRC	
		(4759')		7-7/8"	4-1/2"	4888'	1150SX	CIRC	G/SA PERFORATIONS 4441'-4639'
HILLARY E' STATE #29	P 14 175 33E	4888'	OIL	12-1/4"	8-5/8"	440'	400SX	CIRC	
		(4768')		7-7/8"	4-1/2"	4798'	850SX	CIRC	G/SA PERFORATIONS 4429'-4540'
HILLARY E' STATE #21	F 13 175 33E	4700'	OIL	12-1/4"	8-5/8"	410'	400SX	CIRC	
		(4687')		7-7/8"	4-1/2"	4700'	2250SX	CIRC	G/SA PERFORATIONS 4478'-4654'
HILLARY E' STATE #32	N 13 175 33E	4707'	OIL	12-1/4"	8-5/8"	416'	550SX	CIRC	
		(4706')		7-7/8"	4-1/2"	4705'	850SX	CIRC	G/SA PERFORATIONS 4465'-4660'
HILLARY E' STATE #1	D 13 175 33E	4830'	DH	11"	8-5/8"	315'	150SX	CIRC	10 SX CEMENT PLUGS AT 4793'-4831'
		(541')		7-7/8"	4-1/2"	4830'	---	---	2866'-2900', 1616'-1630', SURFACE
									REENTRY BY LNUY JET. APPROVED 4/10/83

PHILLIPS OIL COMPANY

Expansion - Northeast Maljamar WF Project - Form C-108

III. WELL DATA

- A. 1) Phillips 'E' State Well No. 33
Unit Letter N, 660' FSL and 1980' FWL,
Section 14, T-17-S, R-33-E, Lea County, New Mexico
- 2) Surface casing: 8-5/8" O.D., 24#/ft, set at 421'
12-1/4" hole, cemented with 400 sx,
cement circulated.
- Production casing: 4-1/2" O.D., 11.6#/ft, set at 4700',
7-7/8" hole, cemented with 750 sx,
cement circulated.
- 3) Tubing: 2-3/8" O.D., 4.7#/ft, J-55, EUE, set at 4300'
plastic lined
- 4) Packer: Baker AD-1 tension packer set at 4300'.
- B. 1) Maljamar (Grayburg - San Andres) Field
- 2) Injection interval: 4437'-4568' (perforated)
- 3) Well drilled originally for production
- 4) No additional perforated intervals
- 5) Undesignated Queen @ 3778'.
Leamex Penn @ 10618'.

VII. PROPOSED OPERATION

1. Injection rate: 330 BWPD (Average)
600 BWPD (Maximum)
2. Closed system
3. Injection pressure: 2600 psi (Average)
3000 psi (Maximum)

An application for permission to inject at pressures greater than the statewide limitation will be filed upon completion of the well for injection operations.

4. Source of injection fluids: Produced water and fresh water via Continental's water supply system.
5. N/A

IX. No stimulation program proposed.

GL @ 4133

12-1/4" hole
8-5/8" O.D. 2#/#ft., @ 421'
400sx., cement circulated

Fusiler @ 1473' (+2670')

Yates @ 2782' (+1361')

Queen @ 3732' (+411')

Grayburg @ 4278' (-135')

2-3/8", 4.7 #/ft. J-55, EUE
tubing, plastic lined

Baker AD-1 tension packer @ 4300'

Perforations (2 J-55-E)

o 4437' - 4432'
o 4533' - 4528'
o 4543' - 4546'
o 4563' - 4568'

San Andres @ 4381' (-438')

FTD 4667'

FD 4700'

X X X X X
X X X X
X X X X X

7-7/8" hole

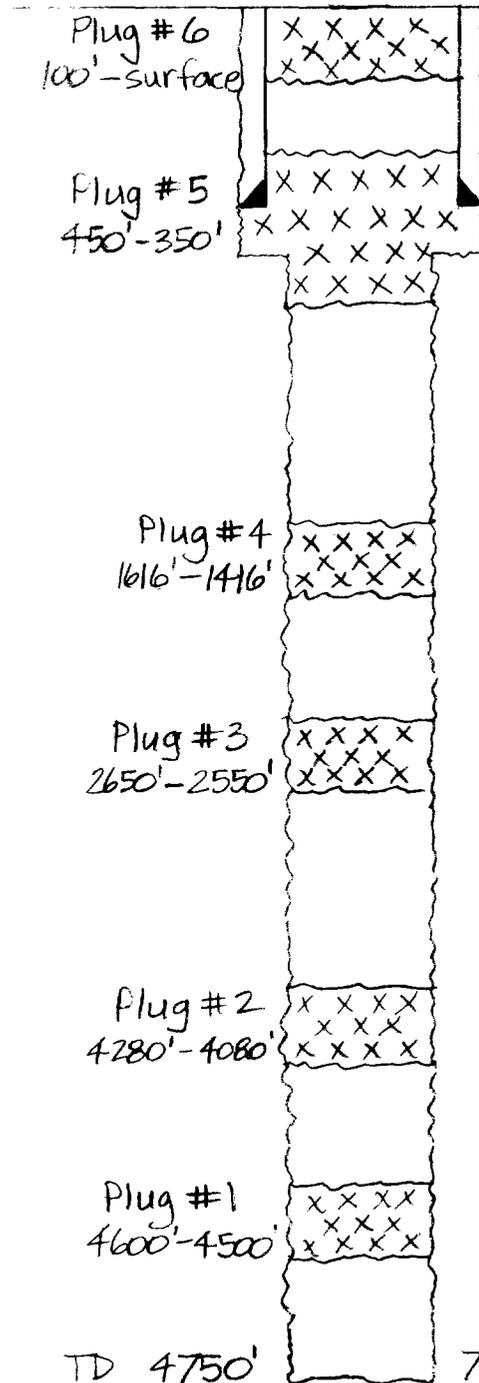
4-1/2" O.D., 11.6 #/ft., @ 4700'
750 sx., cement circulated

Proposed Completion for Water Injection

NO.	REVISION	BY	DATE	CHKD	APP'D
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FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA	JA NO	FILE CODE
FOR APPR		AFE NO	SCALE
FOR CONST		DWG NO	SH NO
DRAWN	PHILLIPS 'E' STATE WELL NO. 33 Unit letter N, 660' FSL, 1980' FWL. Sec. 14, T-17-S, R-33-E, Lea Co., N.M.		
CHECKED			
APP'D			

GL@ 4120'



12-1/4" hole @ 415'
 8-5/8" o.d., 24#/ft., @ 412'
 350 sx, failed to circulate,
 ran 1" between 8-5/8" and 12-1/4"
 annulus to 37', 25 sx, cement
 to surface.

TD 4750' 7-7/8" hole

Plugged and Abandoned Well Sketch

NO	REVISION	BY	DATE	CHKL	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA		JA NO	FILE CODE	
FOR APPR			AFE NO	SCALE	
FOR CONST			MARATHON 18 STATE WELL NO. 1 Unit Letter M, 330' FWL, 330' FSL, Sec. 18, T-17-S, R-34-E, Lea Co., N.M.		DWG NO
DRAWN				SH NO	
CHECKED					
APP'D					

LEASE / WELL NO.	U S T R	TD (PRTD)	TYPE	HOLE SIZE	CASING SIZE	DEPTH	CEMENT	TOC	REMARKS
HILLIPS E' STATE #15	L 14 175 33E	11400'	OIL	17-1/2"	13-3/8"	364'	450SX	CIRC.	
		(4550')		11"	8-5/8"	4299'	500SX	2700'	G/SA PERFORATIONS 4418'-4476'
				7-7/8"	5-1/2"	11400'	1150SX	4320'	
HILLIPS E' STATE #24	F 14 175 33E	46008'	WI	12-1/4"	8-5/8"	400'	400SX	CIRC	CONVERTED TO WI 9/7/77
		(4586')		7-7/8"	4-1/2"	4608'	300SX	2735'	G/SA PERFORATIONS 4425'-4538'
HILLIPS E' STATE #28	J 14 175 33E	4800'	OIL	12-1/4"	8-5/8"	450'	400SX	CIRC.	
		(4759')		7-7/8"	4-1/2"	4800'	1150SX	CIRC.	G/SA PERFORATIONS 4441'-4639'
HILLIPS E' STATE #29	P 14 175 33E	4800'	OIL	12-1/4"	8-5/8"	440'	400SX	CIRC	
		(4768')		7-7/8"	4-1/2"	4798'	850SX	CIRC	G/SA PERFORATIONS 4478'-4654'
EAMEX # 7	F 23 175 33E	11417'	OIL	17-1/2"	13-3/8"	425'	600SX	CIRC	
		(11351)		12-1/4"	8-5/8"	4670'	1269SX	200'	
				8-3/4"	5-1/2"	11416'	330SX	8985'	PENN PERFORATIONS 10618'-11304'
EAMEX #8	B 23 175 33E	11337	PA	17-1/2"	13-3/8"	424'	450SX	CIRC	CUT 5-1/2" CSG AT 3634'
		(11310)		12-1/4"	8-5/8"	4679'	1130SX	50'	400SX PLUG 3628'-9850'
				8-3/4"	5-1/2"	11336'	325SX	9375'	10 SX PLUG SURFACE
EAMEX #20	B 23 175 33E	4704'	GAS	12-1/4"	8-5/8"	410'	600SX	CIRC	QUEEN PERFORATIONS 3778'-3801'
		(4661')		7-7/8"	4-1/2"	4704'	1200SX	CIRC	RBP SET AT 4247' TO ISOLATE
									G/SA PERFORATIONS 4388'-4498'

PHILLIPS OIL COMPANY

Expansion - Northeast Maljamar WF Project - Form C-108

III. WELL DATA

- A. 1) Leamex Well #33
Unit Letter H, 1980' FNL and 660' FEL,
Section 24, T-17-S, R-33-E, Lea County, New Mexico
- 2) Surface casing: 8-5/8" O.D., 24#/ft, set at 355'
12-1/4" hole, cemented with 350 sx,
cement circulated.
- Production casing: 4-1/2" O.D., 11.6#/ft, set at 4800',
7-7/8" hole, cemented with 1800 sx,
cement circulated.
- 3) Tubing: 2-3/8" O.D., 4.7#/ft, J-55, EUE, set at 4100'
- 4) Packer: Baker AD-1 tension packer set at 4100'.
- B. 1) Maljamar (Grayburg - San Andres) Field
- 2) Injection interval: 4197'-4645'
- 3) Well drilled originally for production
- 4) No additional perforated intervals
- 5) No additional productive zones in the area

VII. PROPOSED OPERATION

1. Injection rate: 330 BWPD (Average)
600 BWPD (Maximum)
2. Closed system
3. Injection pressure: 2600 psi (Average)
3000 psi (Maximum)

An application for permission to inject at pressures greater than the statewide limitation will be filed upon completion of the well for injection operations.

4. Source of injection fluids: Produced water and fresh water via Continental's water supply system.
5. N/A

IX. No stimulation program proposed.

GL @ 4122'

12-1/4" hole
 8-5/8" O.D., 24 #/ft., @ 355'
 350 sx., cement circulated

Rustler @ 1503' (+2630')

Yates @ 2806' (+1327')

Queen @ 3801' (+332')

2-3/8" O.D., 4.7 #/ft., J-55, EUE
 tubing, plastic lined

Baker AD-1 tension packer @ 4100'

Perforations (2 JSPP)

- o 4197' - 4203'
- o 4345' - 4352'
- o 4396' - 4402'
- o 4431' - 4433'
- o 4436' - 4442'
- o 4464' - 4466'
- o 4488' - 4494'
- o 4503' - 4505'
- o 4518' - 4520'
- o 4533' - 4537'
- o 4539' - 4542'
- o 4550' - 4560'
- o 4563' - 4587'
- o 4640' - 4645'

Grayburg @ 4212' (-79')

San Andres @ 4589' (-456')

PTD 4757'

X X X X X
 X X X X
 X X X X X

TD 4800'

7-7/8" hole
 4-1/2" O.D., 11.6 #/ft., @ 4800'
 1750 sx., cement circulated

Proposed Completion for Water Injection					
NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY 			JA NO.	FILE CODE
FOR APPR	BARTLESVILLE, OKLAHOMA			AFE NO.	SCALE
FOR CONST	LEAMEX WELL NO. 33 Unit letter H, 1980' FNL, 660' FEL, Sec. 24, T-17-S, R-33-E, Lea Co., N.M.			DWG NO.	
DRAWN				SH NO.	
CHECKED					
APP'D					

LEAMEX # 33

Ph. Hips Dr. / Company - West coast Aljmore W.F. Project - Expansion

LEASE / WELL NO.	U S T R	TD (PRTD)	TYPE	HOLE SIZE	CASING SIZE	DEPTH	CEMENT	TOC	REMARKS
LEAMEX #23	F 24 175 33E	4700'	OIL	12-1/4"	8-5/8"	410'	600sx	CIRC	
		(4643')		7-7/8"	4-1/2"	4700'	1700sx	CIRC	G/SA PERFORATIONS 4408'-4550'
LEAMEX #27	B 24 175 33E	4700'	OIL	12-1/4"	8-5/8"	400'	400sx	CIRC	
		(4660')		7-7/8"	4-1/2"	4700'	1600sx	CIRC	G/SA PERFORATIONS 4424'-4582'
LEAMEX #28	J 24 175 33E	4700'	OIL	12-1/4"	8-5/8"	401'	400sx	CIRC	
		(4626')		7-7/8"	4-1/2"	4699'	1200sx	CIRC	G/SA PERFORATIONS 4360'-4566'
LEAMEX #32	P 24 175 33E	4800'	OIL	12-1/4"	8-5/8"	379'	400sx	CIRC	
		(4742')		7-7/8"	4-1/2"	4784'	1650sx	CIRC	G/SA PERFORATIONS 4364'-4620'
LEA #27	L 19 175 34E	4800'	OIL	12-1/4"	8-5/8"	360'	400sx	CIRC	
		(4756')		7-7/8"	4-1/2"	4800'	1400sx	CIRC	G/SA PERFORATIONS 4191'-4578'
LEA #28	D 19 175 34E	4800'	OIL	12-1/4"	8-5/8"	369'	400sx	CIRC	
		(4724')		7-7/8"	4-1/2"	4800'	1450sx	CIRC	G/SA PERFORATIONS 4354'-4568'
MARATHON 18 STATE #1	M 18 175 34E	4750'	PA	12-1/4"	8-5/8"	413'	350sx	37'	35sx PLUG 4500'-4600', 70sx 4080'-4280', 70sx 2550'-2650', 85sx 1416'-1616', 35sx 350'-450', 30sx SURFACE-100'

PHILLIPS OIL COMPANY

Expansion - Northeast Maljamar WF Project - Form C-108

III. WELL DATA

- A. 1) Leamex Well #19
Unit Letter D, 1980' FSL and 660' FWL,
Section 24, T-17-S, R-33-E, Lea County, New Mexico
- 2) Surface casing: 8-5/8" O.D., 24#/ft, set at 432'
12-1/4" hole, cemented with 400 sx,
cement circulated.
- Production casing: 4-1/2" O.D., 11.6#/ft, set at 4700',
7-7/8" hole, cemented with 1650 sx,
cement circulated.
- 3) Tubing: 2-3/8" O.D., 4.7#/ft, N-80, EUE, set at 4300'
- 4) Packer: Baker AD-1 tension packer set at 4300'.
- B. 1) Maljamar (Grayburg - San Andres) Field
- 2) Injection interval: 4390'-4564' (perforated)
- 3) Well drilled originally for production
- 4) No additional perforated intervals
- 5) Undesignated Queen @ 3793'.
No lower productive zones in the area

VII. PROPOSED OPERATION

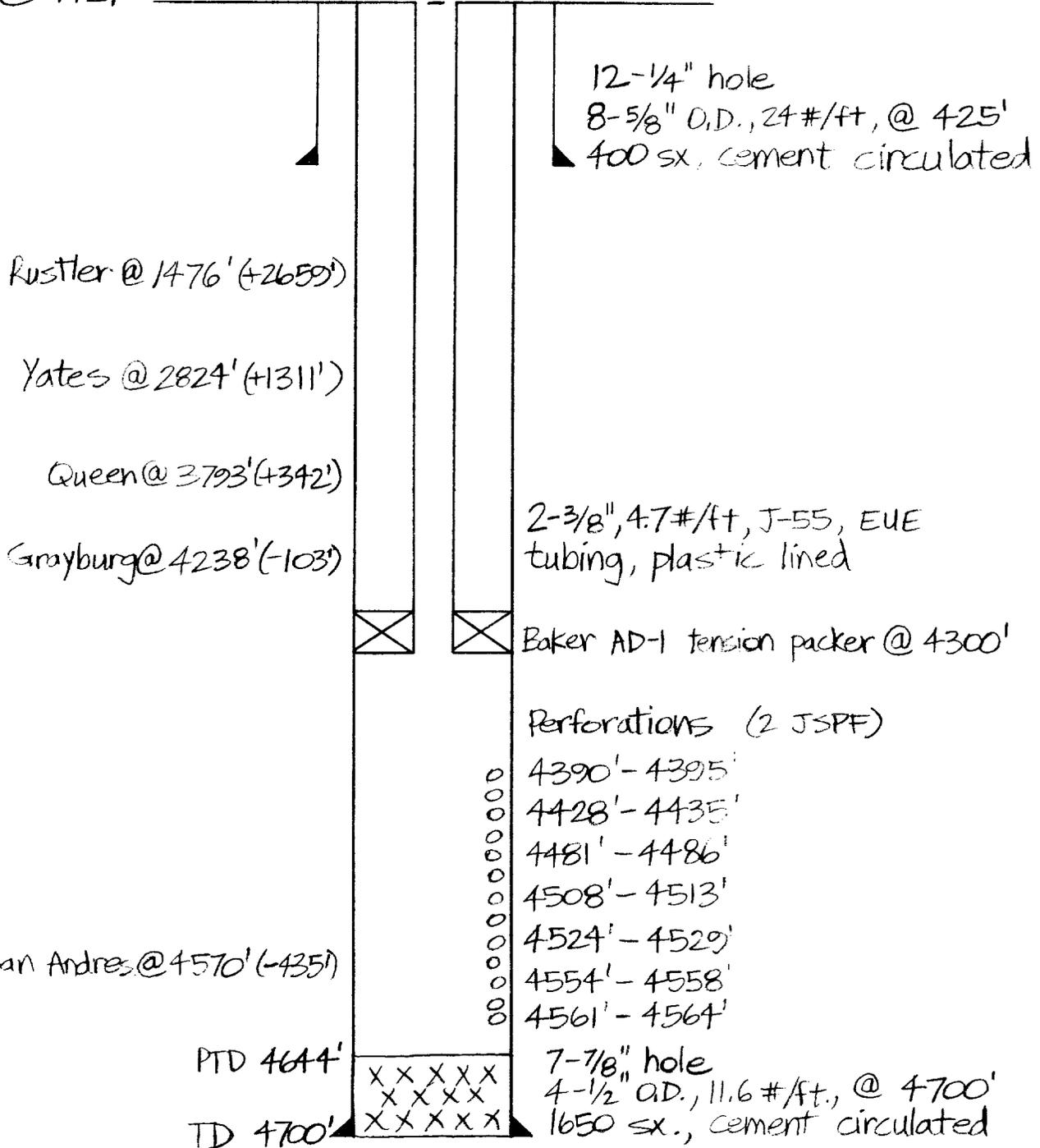
1. Injection rate: 330 BWPD (Average)
600 BWPD (Maximum)
2. Closed system
3. Injection pressure: 2600 psi (Average)
3000 psi (Maximum)

An application for permission to inject at pressures greater than the statewide limitation will be filed upon completion of the well for injection operations.

4. Source of injection fluids: Produced water and fresh water via Continental's water supply system.
5. N/A

IX. No stimulation program proposed.

GL @ 4124'



12-1/4" hole
8-5/8" O.D., 24#/ft, @ 425'
400 sx, cement circulated

Rustler @ 1476' (+2659')

Yates @ 2824' (+1311')

Queen @ 3793' (+342')

Grayburg @ 4238' (-103')

2-3/8", 4.7#/ft, J-55, EUE
tubing, plastic lined

Baker AD-1 tension packer @ 4300'

Perforations (2 JSPE)

- o 4390' - 4395'
- o 4428' - 4435'
- o 4481' - 4486'
- o 4508' - 4513'
- o 4524' - 4529'
- o 4554' - 4558'
- o 4561' - 4564'

San Andres @ 4570' (-435')

PTD 4644'

X X X X X
X X X X X
X X X X X

TD 4700'

7-7/8" hole
4-1/2" O.D., 11.6#/ft, @ 4700'
1650 sx., cement circulated

Proposed Completion for Water Injection

NO.	REVISION	BY	DATE	CHKD	APP'D
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FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA		JA NO.	FILE CODE
FOR APPR			AFE NO.	SCALE
FOR CONST			LEAMEX WELL NO. 19 Unit letter D, 1980' FSL, 660' FWL, Sec. 24, T-17-S, R-33-E, Lea Co., N.M.	
DRAWN			SH NO.	
CHECKED				
APP'D				

PHILLIPS OIL COMPANY

Expansion - Northeast Maljamar WF Project - Form C-108

III. WELL DATA

- A. 1) Leamex Well #29
Unit Letter L, 1980' FSL and 660' FWL,
Section 24, T-17-S, R-33-E, Lea County, New Mexico
- 2) Surface casing: 8-5/8" O.D., 24#/ft, set at 400'
12-1/4" hole, cemented with 400 sx,
cement circulated.
- Production casing: 4-1/2" O.D., 11.6#/ft, set at 4709',
7-7/8" hole, cemented with 1600 sx,
cement circulated.
- 3) Tubing: 2-3/8" O.D., 4.7#/ft, J-55, EUE, set at 4300'
- 4) Packer: Baker AD-1 tension packer set at 4300'.
- B. 1) Maljamar (Grayburg - San Andres) Field
- 2) Injection interval: 4373'-4558'
- 3) Well drilled originally for production
- 4) No additional perforated intervals
- 5) No additional productive zones in the area

VII. PROPOSED OPERATION

1. Injection rate: 330 BWPD (Average)
600 BWPD (Maximum)
2. Closed system
3. Injection pressure: 2600 psi (Average)
3000 psi (Maximum)

An application for permission to inject at pressures greater than the statewide limitation will be filed upon completion of the well for injection operations.

4. Source of injection fluids: Produced water and fresh water via Continental's water supply system.
5. N/A

IX. No stimulation program proposed.

GL @ 415'

12-1/4" hole

8-5/8" o.d., 24#/ft., @ 400'

400 sx., cement circulated

Rustler @ 1470' (+2655')

Yates @ 2780' (+1345')

Queen @ 3773' (+352')

Grayburg @ 4182' (-57')

2-3/8", 4.7#/ft., J-55, EUE tubing, plastic lined

Baker AD-1 tension packer @ 4300'

Perforations (2 JSPF)

- o 4373' - 4375'
- o 4428' - 4430'
- o 4459' - 4461'
- o 4477' - 4480'
- o 4513' - 4516'
- o 4518' - 4524'
- o 4534' - 4542'
- o 4546' - 4550'
- o 4552' - 4558'

San Andres @ 4564' (-439')

PTD 4662'

X X X X X
X X X X
X X X X X

TD 4710'

7-7/8" hole

4-1/2" o.d., 11.6#/ft., @ 4700'

1600 sx., cement circulated

Proposed Completion for Water Injection					
NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY 			JA NO.	FILE CODE
FOR APPR	BARTLESVILLE, OKLAHOMA			AFE NO.	SCALE
FOR CONST	LEAMEX WELL NO. 29 Unit letter L, 1980' FSL, 660' FWL, Sec. 24, T-17-S, R-33-E, Lea Co., N.M.			DWG NO.	
DRAWN				SH NO.	
CHECKED					
APP'D					



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

October 5, 1984

TONY ANAYA
 GOVERNOR

Libert

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 _____ X _____
 PMX _____

Gentlemen:

I have examined the application for the:

<u>Phillips Oil Co.</u>	<u>Phillips E State</u>	<u>No. 33-N</u>	<u>14-17-33</u>
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

The P/A wells need to have plug across injection zone-----J.S.

Yours very truly,

Jerry Sexton
 Jerry Sexton
 Supervisor, District 1

/mc

