

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: 4001 Penbrook St., Odessa, Texas 79762

Contact party: Keith Maberry Phone: (915) 368-1232

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-6856.

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: L. M. Sanders Title Supv. Reg. Affairs

Signature: [Signature] Date: 8/5/94

• 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. October 25, 1978, Case 6367 (Order No. R-5897, Approved 1-16-79)

amended 11-19-81, Case #7426 (Order No. R-6856, Approved 12-16-81) & Amended 1-11-90

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.

**EAST VACUUM GRAYBURG SAN ANDRES UNIT  
PROPOSED INJECTION WELL LOCATIONS  
LEA COUNTY, NEW MEXICO**

WELL 386	531' FWL AND 1310' FSL, SECTION 32, T-17-S, R-35-E
WELL 384	2524' FEL AND 825' FSL, SECTION 32, T-17-S, R-35-E
WELL 385	1160' FEL AND 875' FSL, SECTION 32, T-17-S, R-35-E
WELL 383	1769' FWL AND 1219' FSL, SECTION 33, T-17-S, R-35-E
WELL 387	508' FWL AND 1440' FSL, SECTION 33, T-17-S, R-35-E

# INJECTION WELL DATA SHEET

PHILLIPS PETROLEUM COMPANY

EAST VACUUM GRAYBURG SAN ANDRES UNIT

OPERATOR

LEASE

TYPICAL INJECTION WELL

## Tabular Data

Surface Casing @ 1600'

Size 8.625 Cemented with 600 sx  
TOC surface feet determined by Circulation  
Hole size 12.25

Long String @ 4850'

Size 5.5" Cemented with 800 sx  
TOC surface feet determined by Circulation  
Hole size 7.875'  
Total depth 4850'

Intermediate Casing

Size \_\_\_\_\_ Cemented with \_\_\_\_\_  
TOC \_\_\_\_\_ feet determined by \_\_\_\_\_  
Hole size \_\_\_\_\_

Injection Interval

4350' to 4650'  
Perforated X  
or  
Open-Hole \_\_\_\_\_

Tubing 2.875" 4.7#/ ft lined with plastic coating set in a BAKER A-3 LOKSET packer at 4250'  
(brand & model)

## Other Data

- Name of the injection formation SAN ANDRES
- Name of the Field or Pool VACUUM
- Is this a new well drilled for injection? YES

If no, for what purpose was the well originally drilled? \_\_\_\_\_  
\_\_\_\_\_

- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).

NO  
\_\_\_\_\_  
\_\_\_\_\_

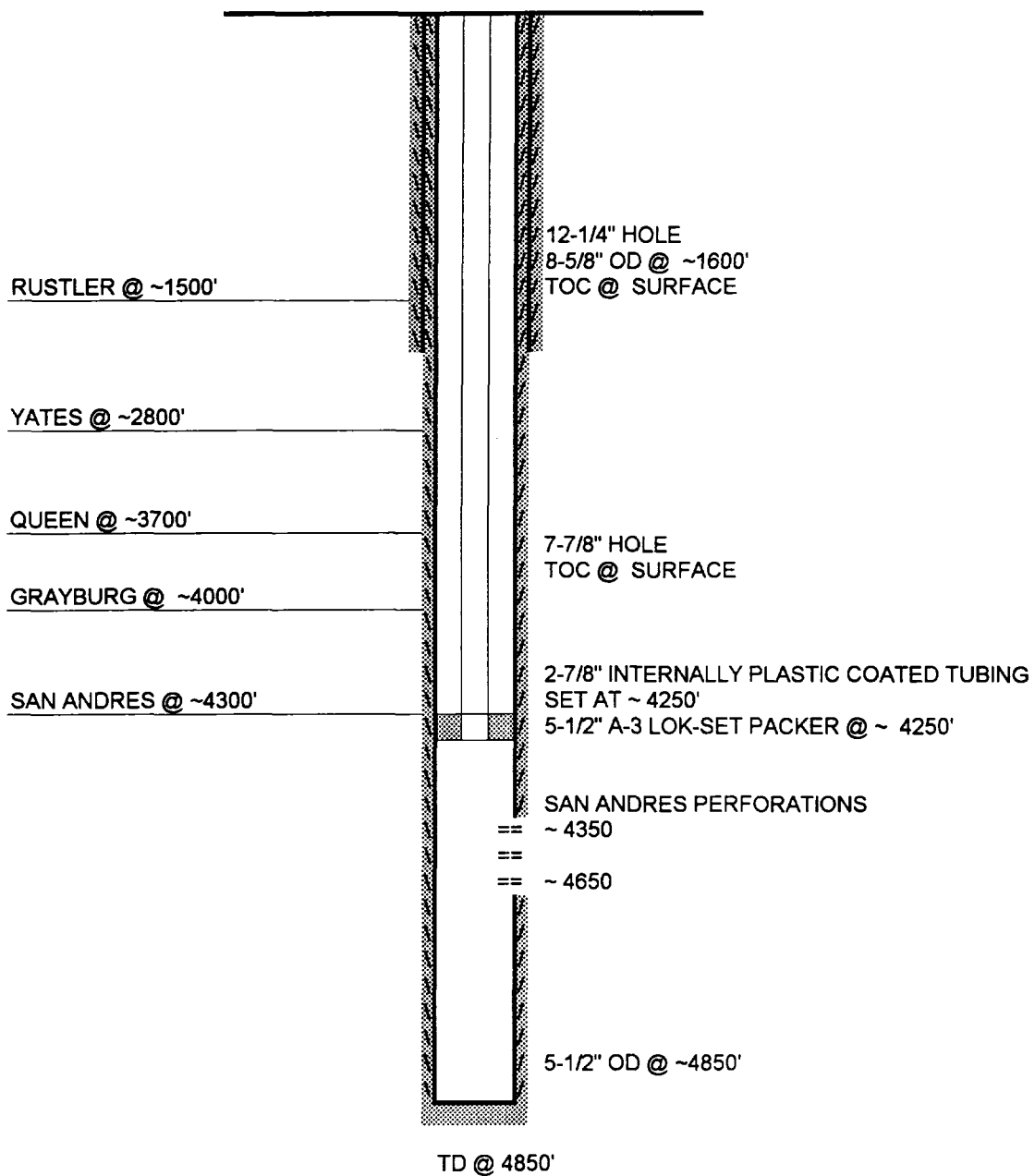
- Give the depth to and name of any overlying and/or underlying oil or gas zones

(pools) in this area. QUEEN @ 3700'  
GLORIETA @ 6000'

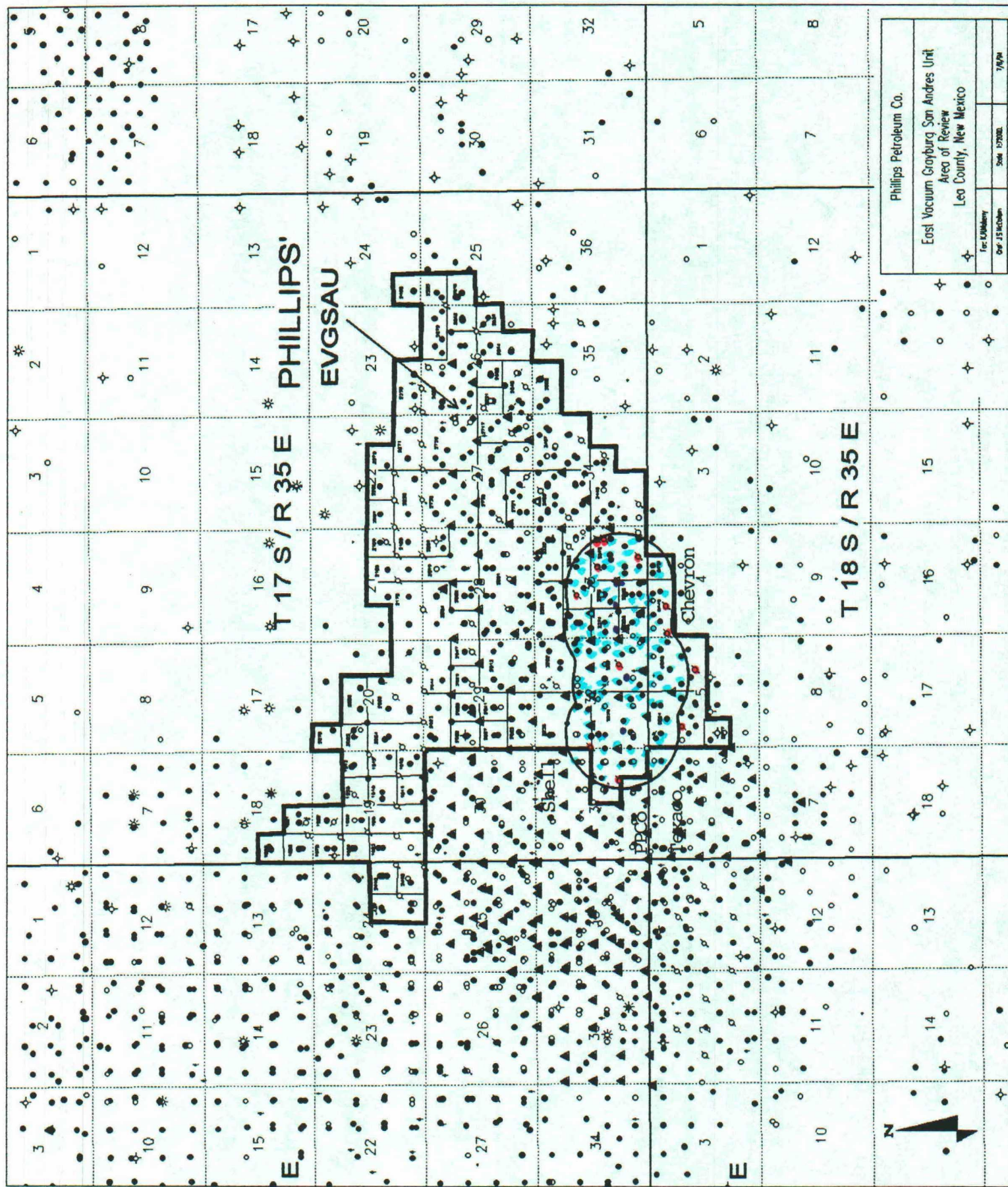
**EAST VACUUM GRAYBURG SAN ANDRES UNIT**

**INJECTION WELL COMPLETION DIAGRAM**

**5-1/2" INJECTION WELL**







Phillips Petroleum Co.		
East Vacuum Grayburg San Andres Unit		
Area of Review		
Leo County, New Mexico		
For E. McKinley	See 127000	1/8" = 1"
By J. S. Schenck		

**EAST VACUUM GRAYBURG SAN ANDRES UNIT**

ATTACHMENT III TO FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

**WELL DATA TABLE**

Operator	Lease Name	Well No.	API Number	Type	Top of Cement *	Construction	Date Drilled	Record of Completion	Depth	Location
Mobil	State "K"	11	3002532439	PROD	2710' M	See Diagram	04-08-94	See Diagram	8107'	31 17S 35E 1400 FS, 360 FE
Mobil	State "K"	12	3002532413	PROD	3100' M	"	03-17-94	"	8093'	31 17S 35E 330 FS, 990 FE
Phillips	EVGSAU	0524-007	3002532059	PROD	surface	"	12-06-93	"	4850'	5 18S 35E 2100 FN, 1450 FW
Phillips	EVGSAU	3127-008	3002530278	PROD	surface	"	08-22-88	"	4800'	31 17S 35E 2173 FS, 1410 FE
Phillips	EVGSAU	3127-009	3002530279	PROD	surface	"	08-09-88	"	4800'	31 17S 35E 1175 FS, 740 FE
Phillips	EVGSAU	3202-020	3002532067	PROD	surface	"	12-13-93	"	4850'	32 17S 35E 1158 FS, 850 FE
Phillips	EVGSAU	3202-021	3002532066	PROD	surface	"	11-29-93	"	4830'	32 17S 35E 1300 FS, 2180 FE
Phillips	EVGSAU	3229-010	3002530021	PROD	surface	"	11-01-87	"	4800'	32 17S 35E 1980 FS, 10 FW
Phillips	EVGSAU	3229-011	3002532065	PROD	458' M	"	01-06-94	"	4840'	32 17S 35E 829 FS, 36 FW
Phillips	EVGSAU	3229-012	3002530280	PROD	surface	"	07-26-88	"	4790'	32 17S 35E 2630 FS, 569 FW
Phillips	EVGSAU	3229-013	3002532061	PROD	surface	"	12-06-93	"	4837'	32 17S 35E 2000 FS, 2630 FW
Phillips	EVGSAU	3366-001	3002532063	PROD	surface	"	11-30-93	"	4825'	33 17S 35E 1560 FN, 1080 FW
Phillips	EVGSAU	3373-002	3002532064	PROD	surface	"	01-02-94	"	4825'	33 17S 35E 1700 FS, 1640 FW
Phillips	Santa Fe	133	3002532333	PROD	2620' M	"	02-06-94	"	8100'	31 17S 35E 435 FS, 1930 FE
Phillips	Santa Fe	134	3002532414	PROD	surface	"	04-09-94	"	8200'	5 18S 35E 430 FN, 430 FW
Texaco	"R" State NCT-1	15	3002532019	PROD	surface	"	12-09-93	"	8150'	6 18S 35E 510 FN, 640 FE

\* Top of Cement

M - Measured by Temp. Survey or Cement Bond Log

E - Estimated

C - Calculated using a cement yield of 1.32 cu. ft./sack  
and assuming 50 % excess

**EAST VACUUM GRAYBURG SAN ANDRES UNIT**

**ATTACHMENT III TO FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT**

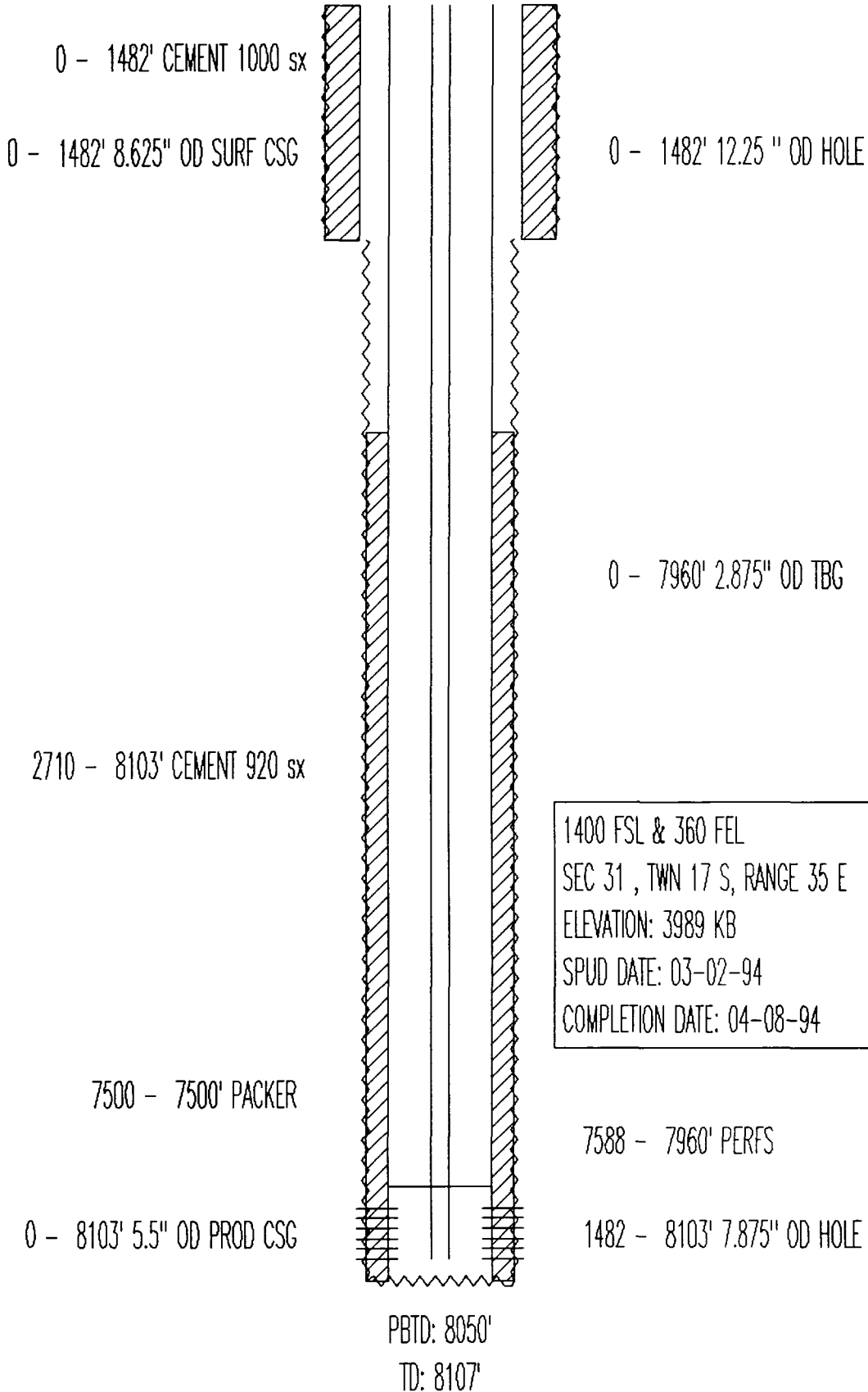
**WELLS WITHIN 1/2 MILE RADIUS OF REVIEW**

**PROPOSED WELLS OR CURRENTLY BEING DRILLED  
WELL DATA TABLE**

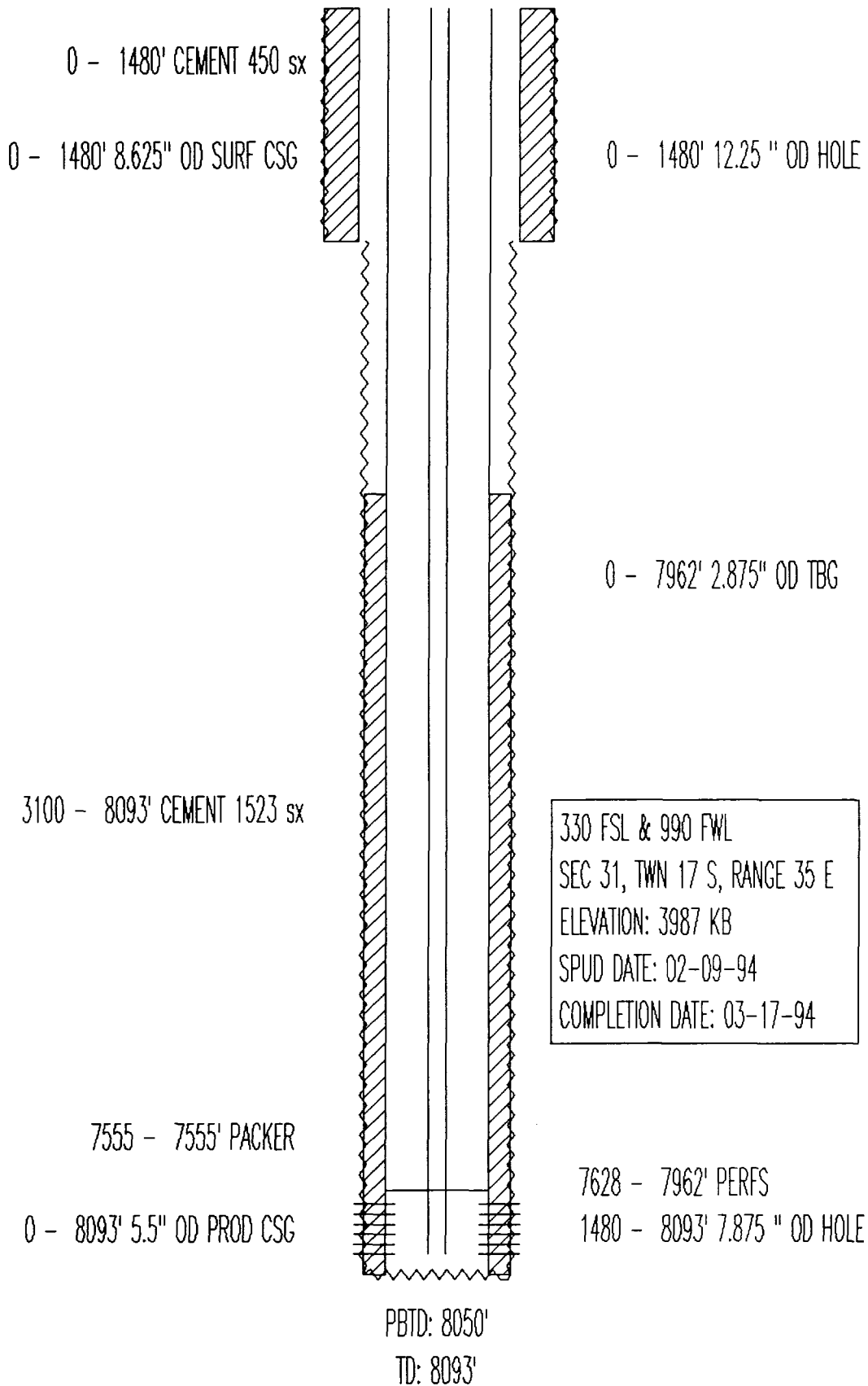
<u>Operator</u>	<u>Lease Name</u>	<u>Well No.</u>	<u>API Number</u>	<u>Proposed Depth</u>	<u>Unit</u>	<u>Location</u>
Arco	State "B" 1576	9	3002532515	8150'	J	32 17S 35E 500 FS, 418 FW
Arco	State "B" 1576	10	3002532516	8150'	H	32 17S 35E 402 FS, 1905 FW



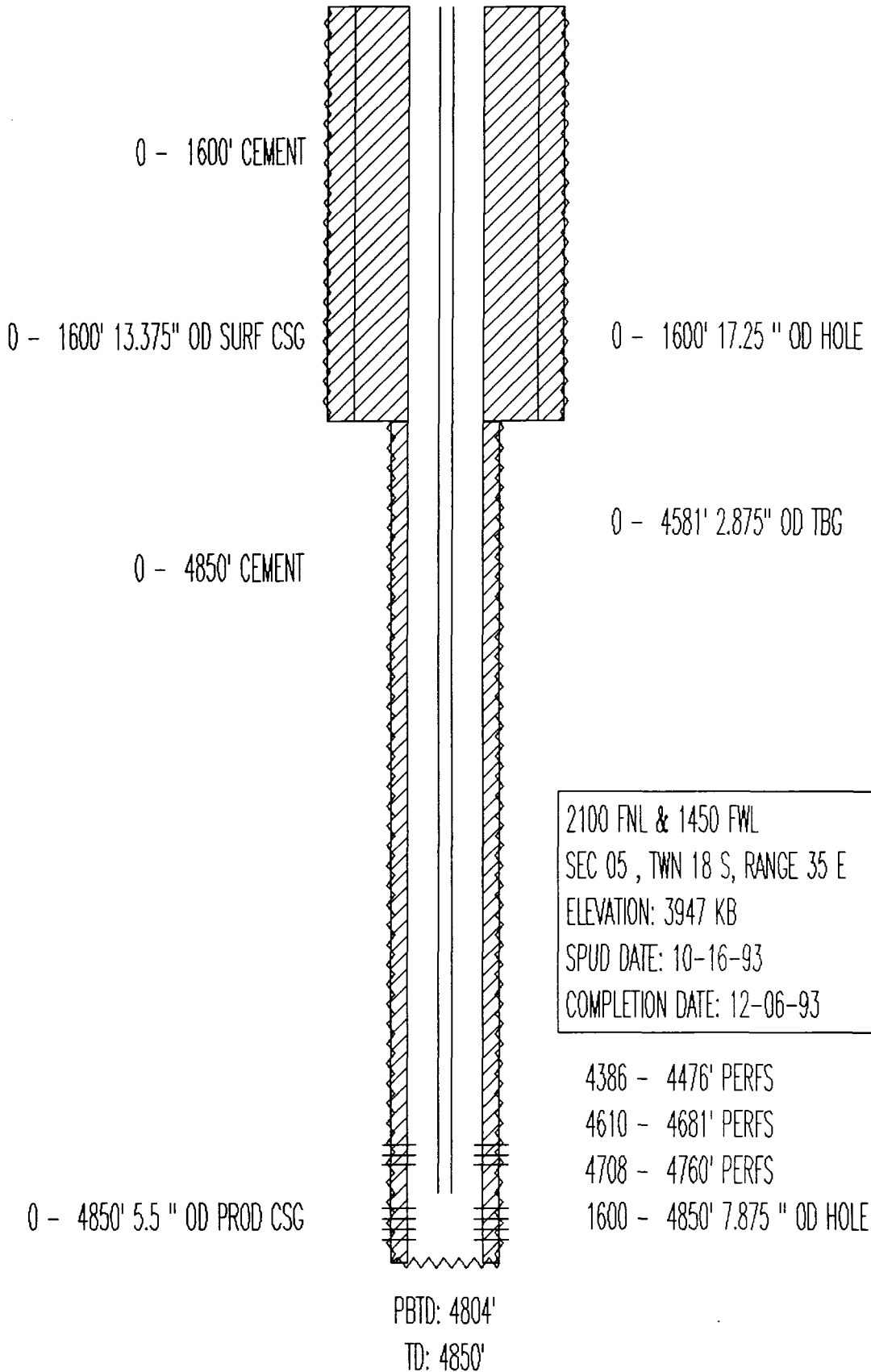
MOBIL PROD  
STATE "K" #11  
API# 3002532439



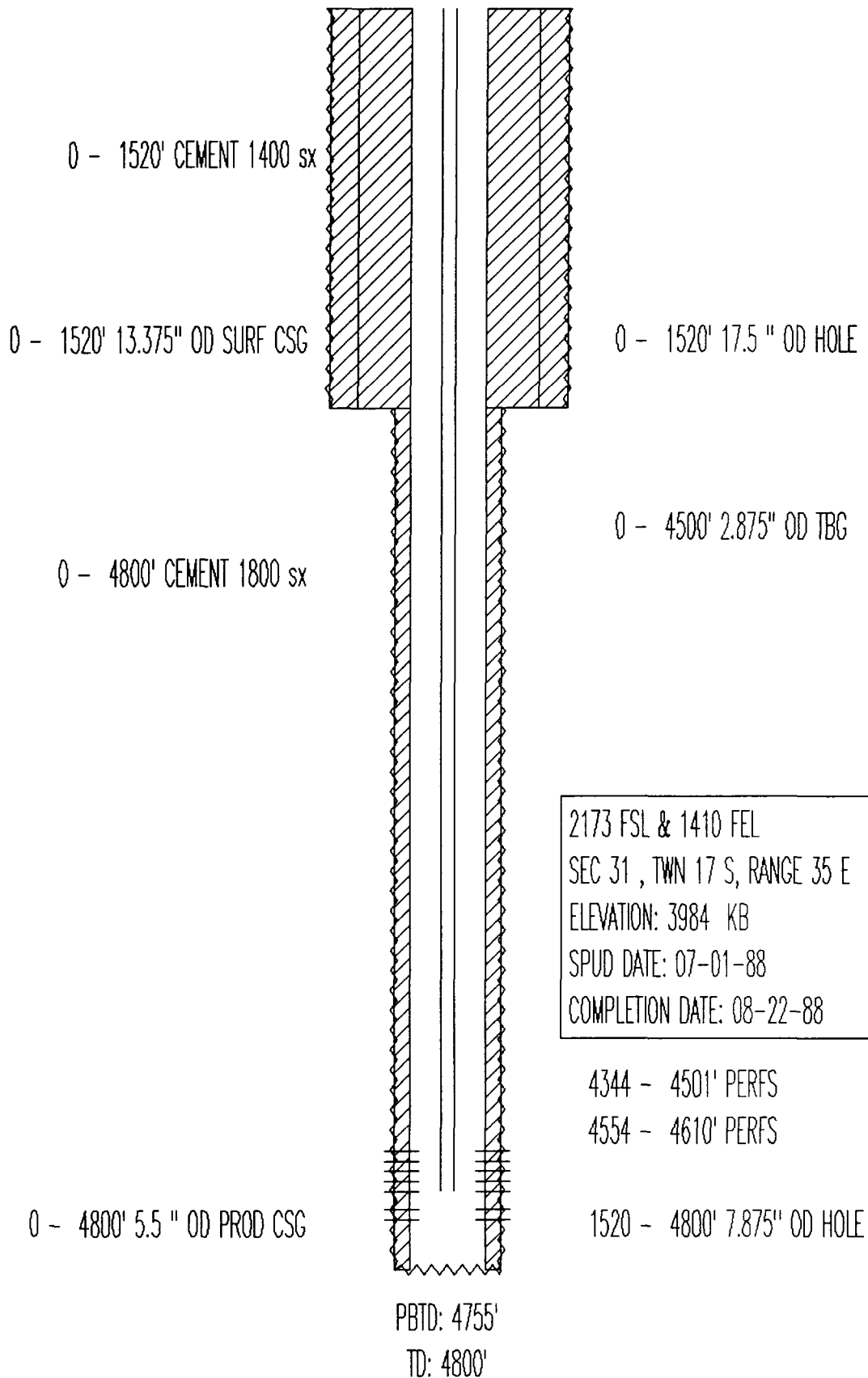
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API# 3002532413



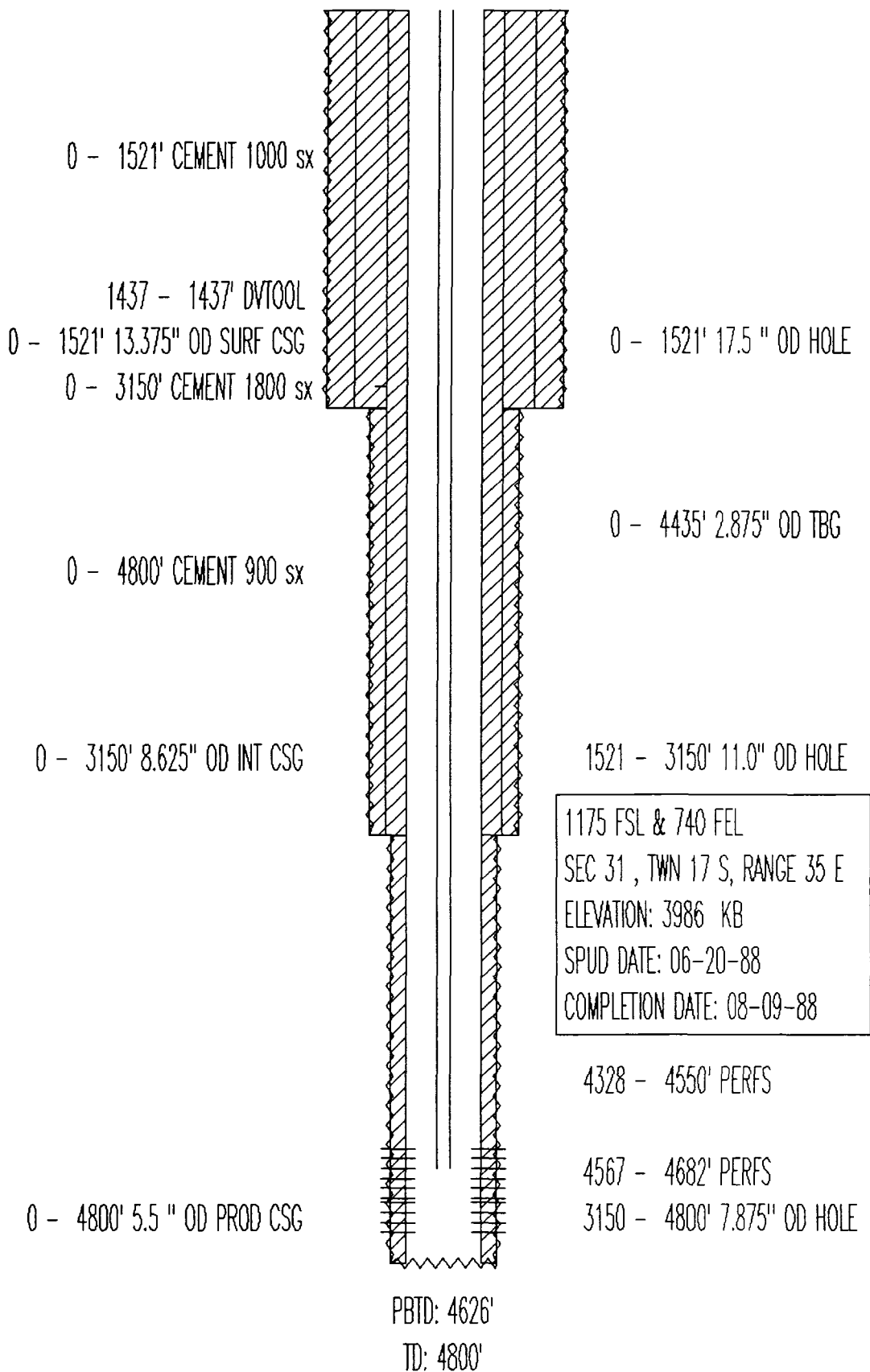
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API# 3002532059



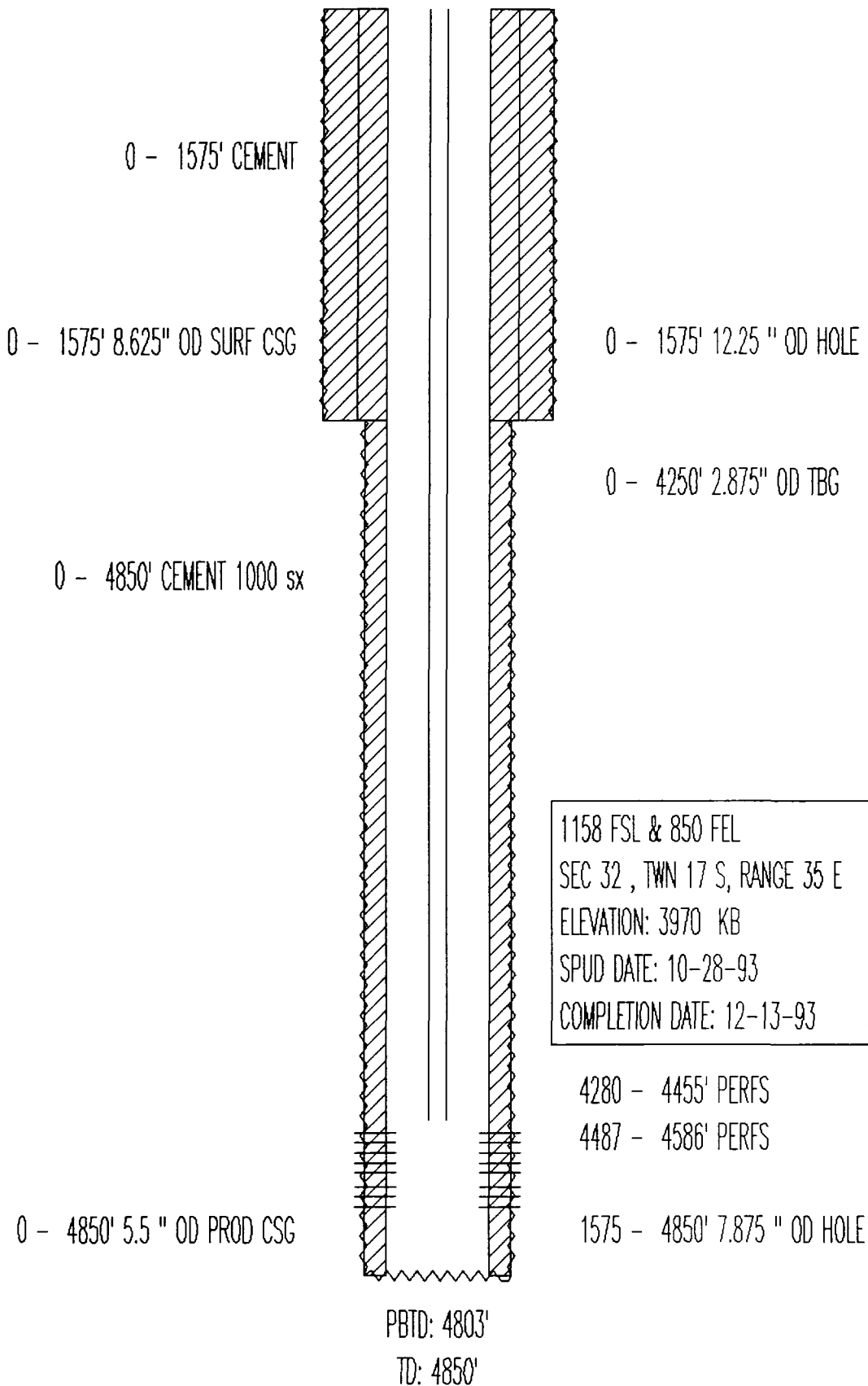
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PHILLIPS PET  
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API# 3002530279

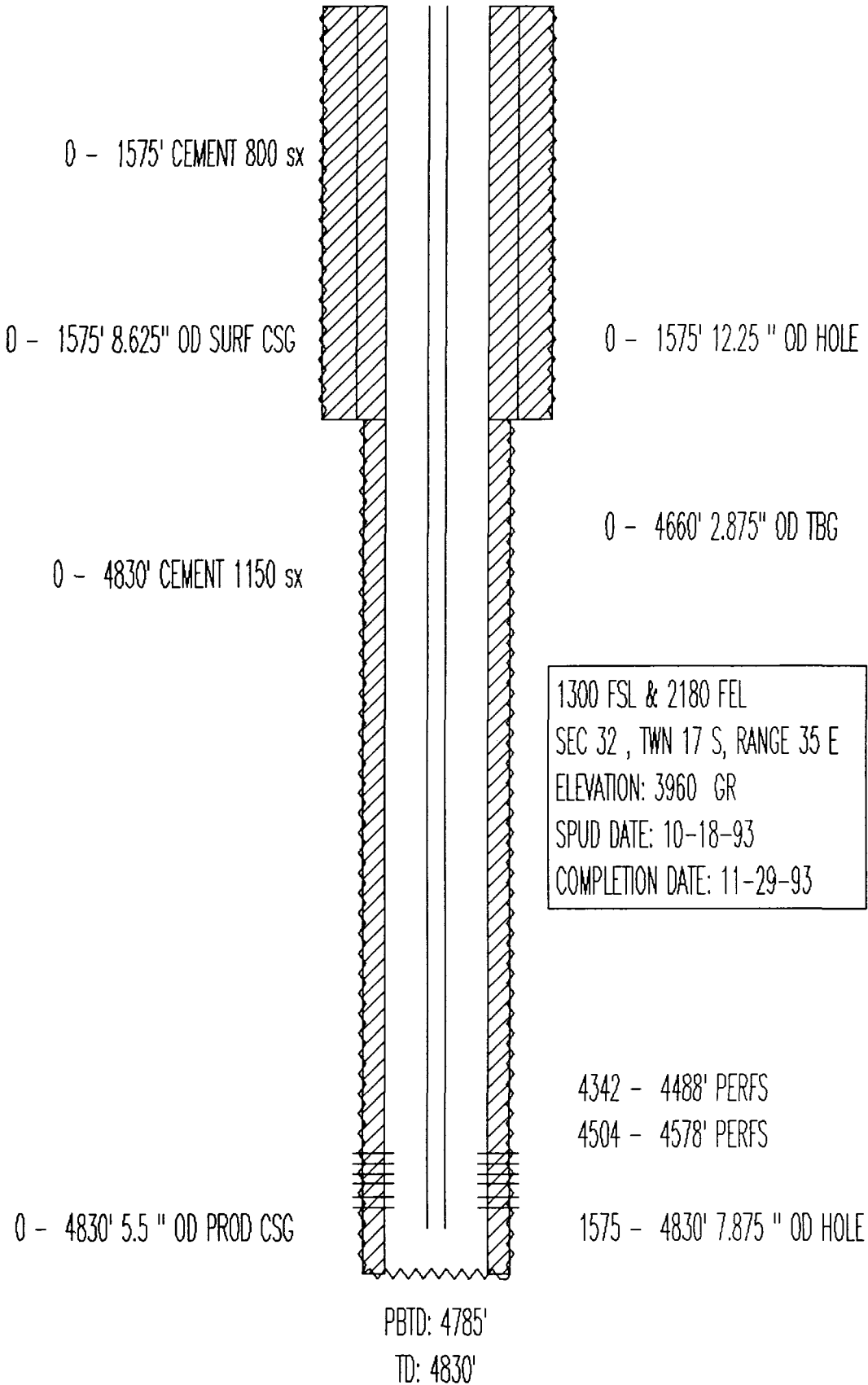


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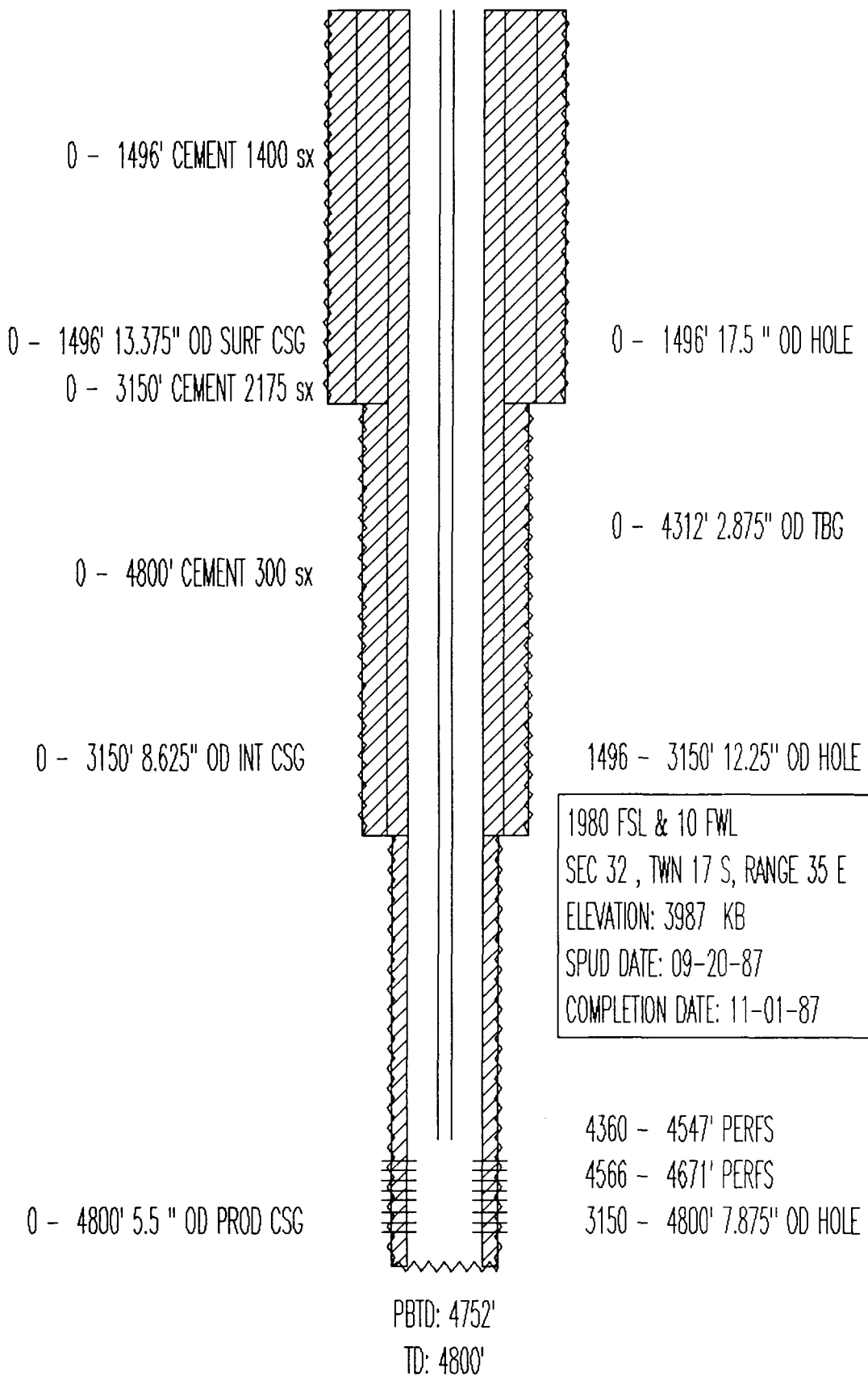




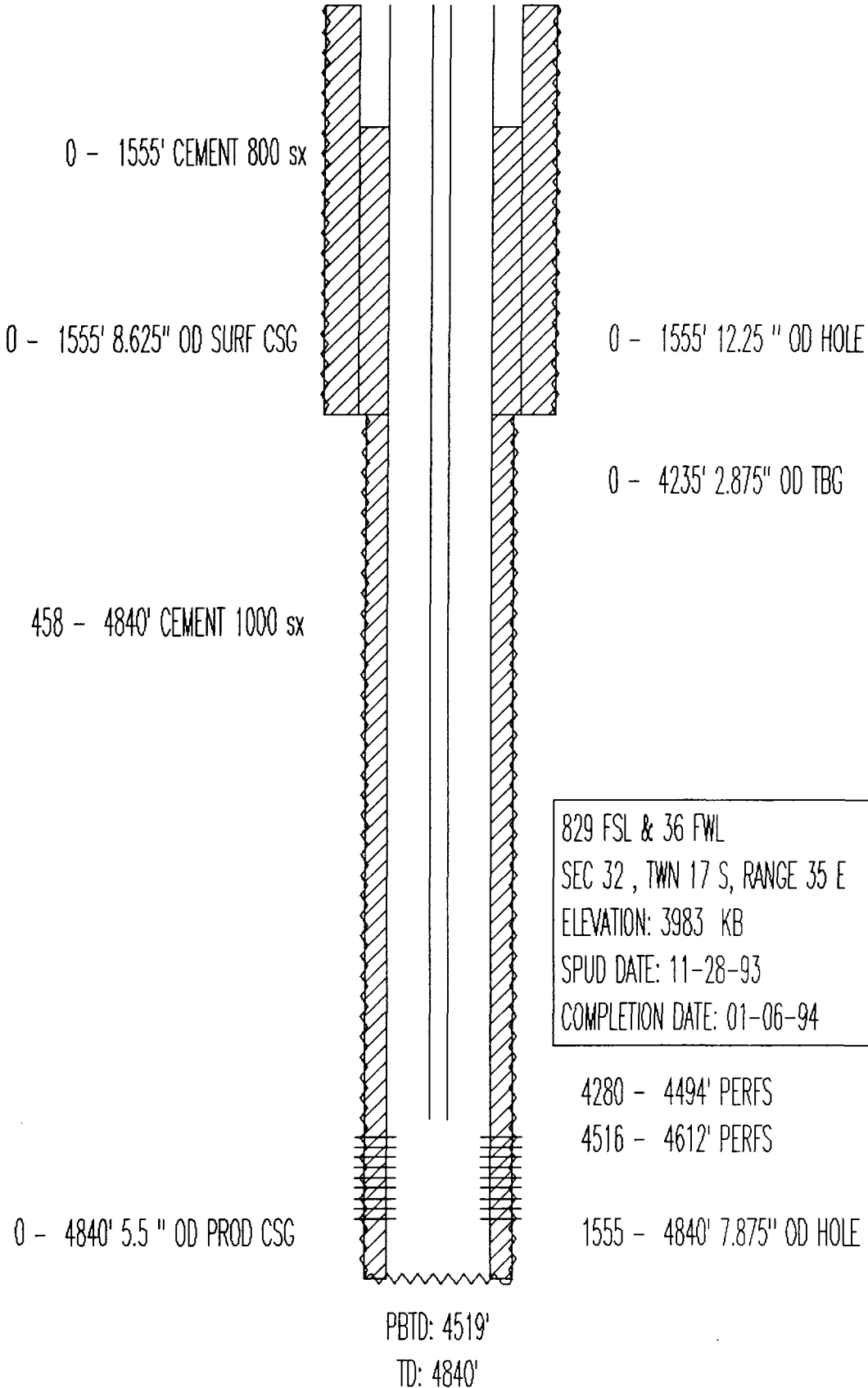
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EVGSAU 3202-021  
API# 3002532066



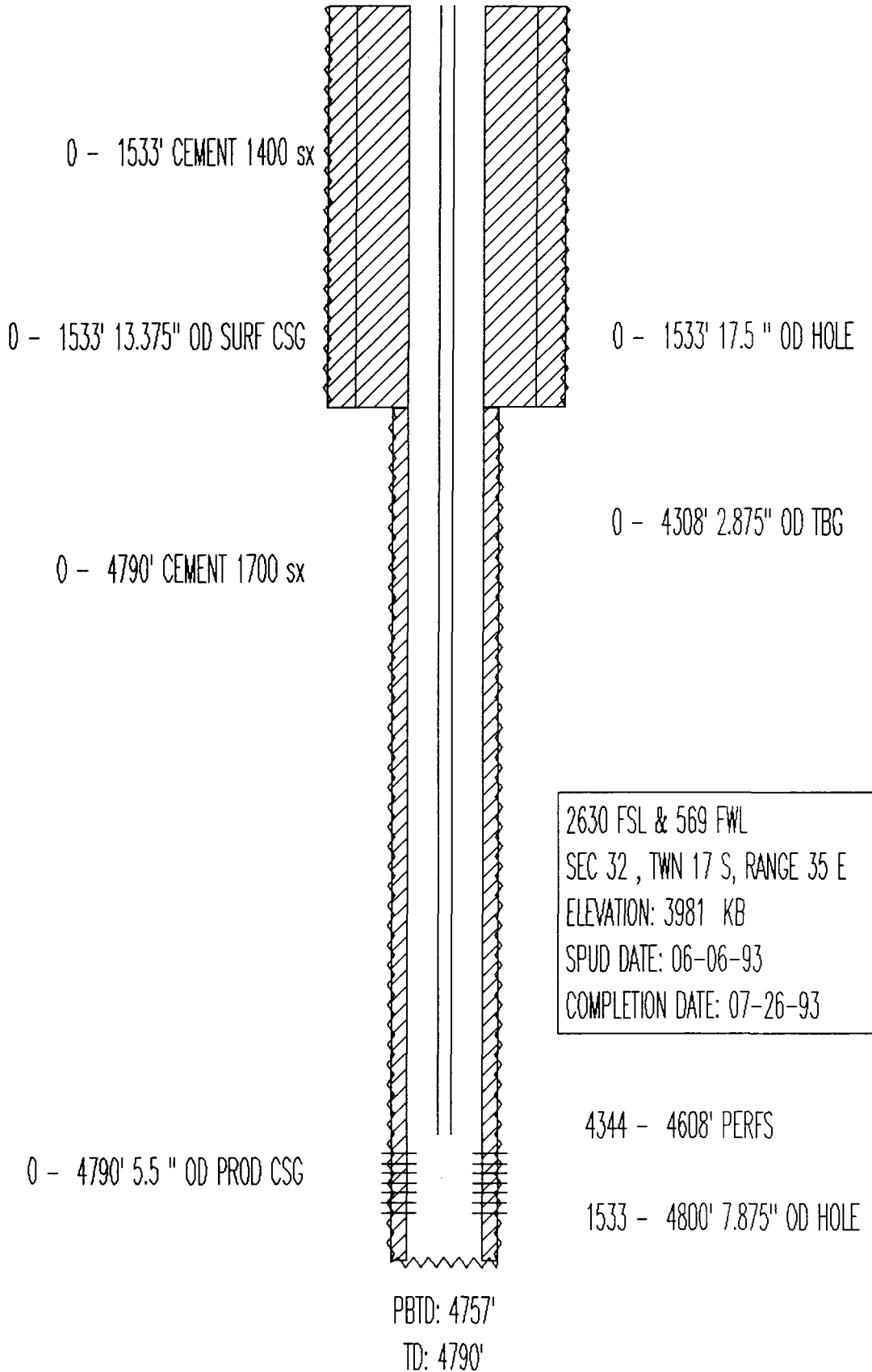
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EVGSAU 3229-010  
API# 3002530021



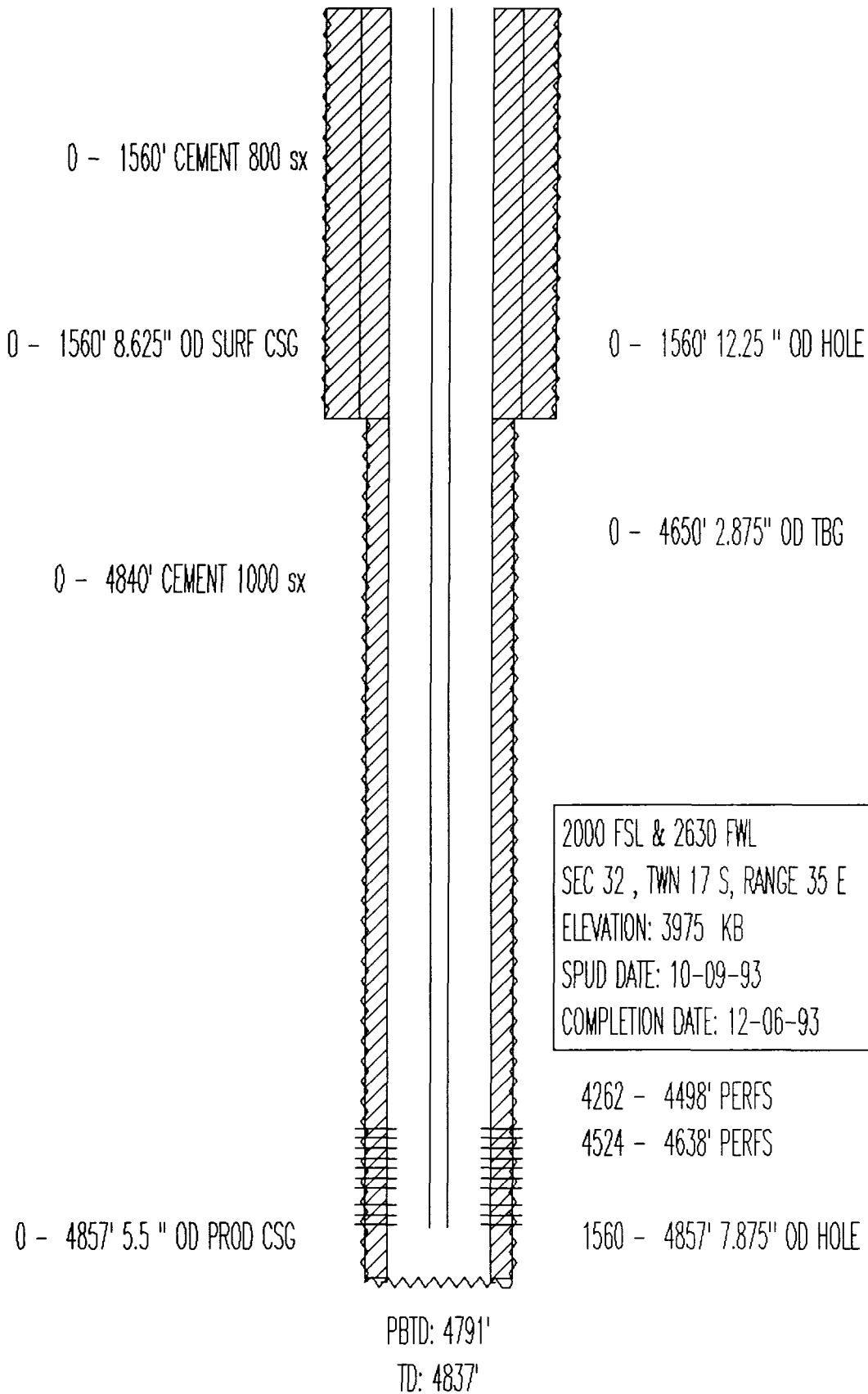
PHILLIPS PET  
EVGSAU 3229-011  
API# 3002532065



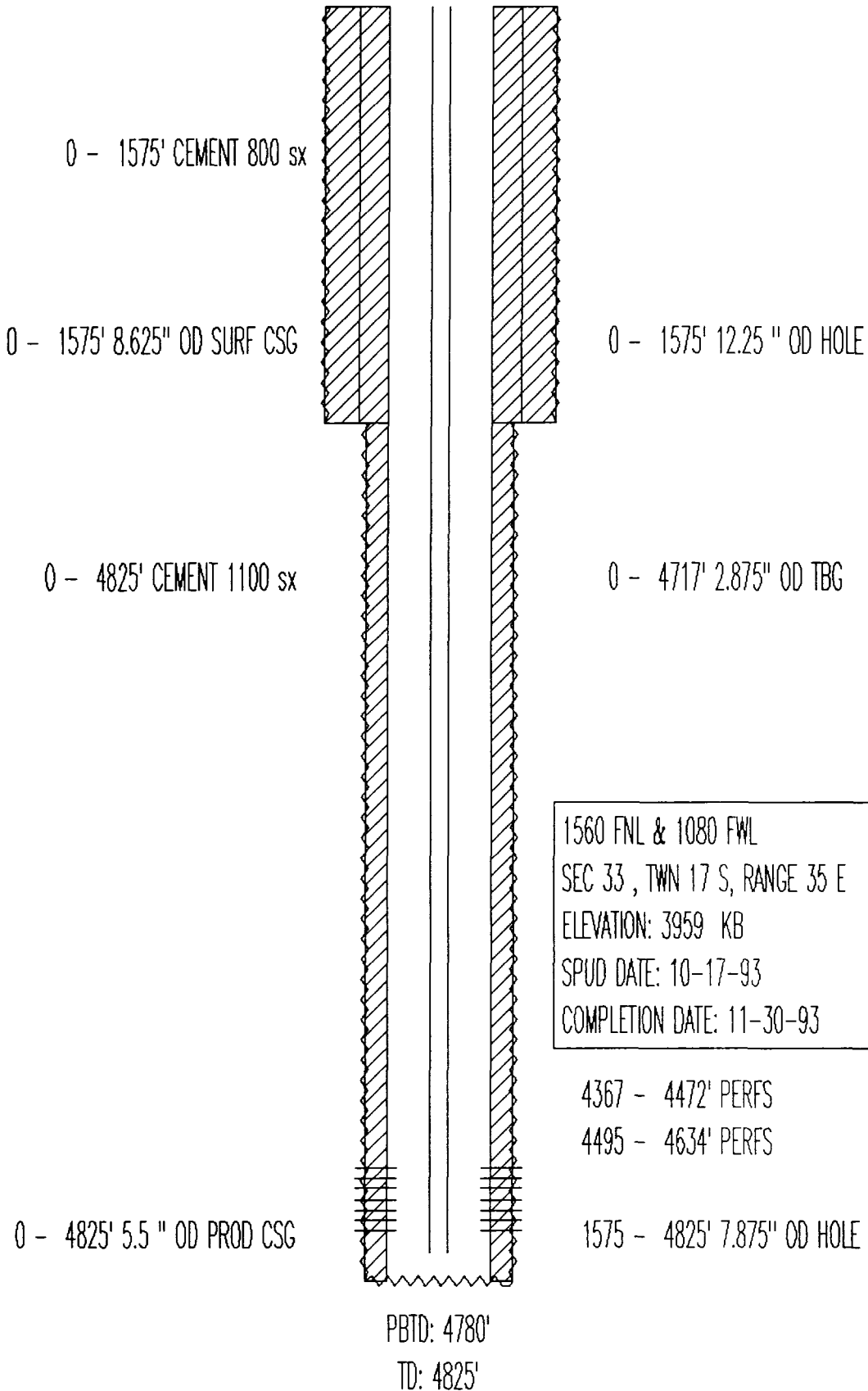
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EVGSAU 3229-012  
API# 3002530280



PHILLIPS PET  
EVGSAU 3229-013  
API# 3002532061

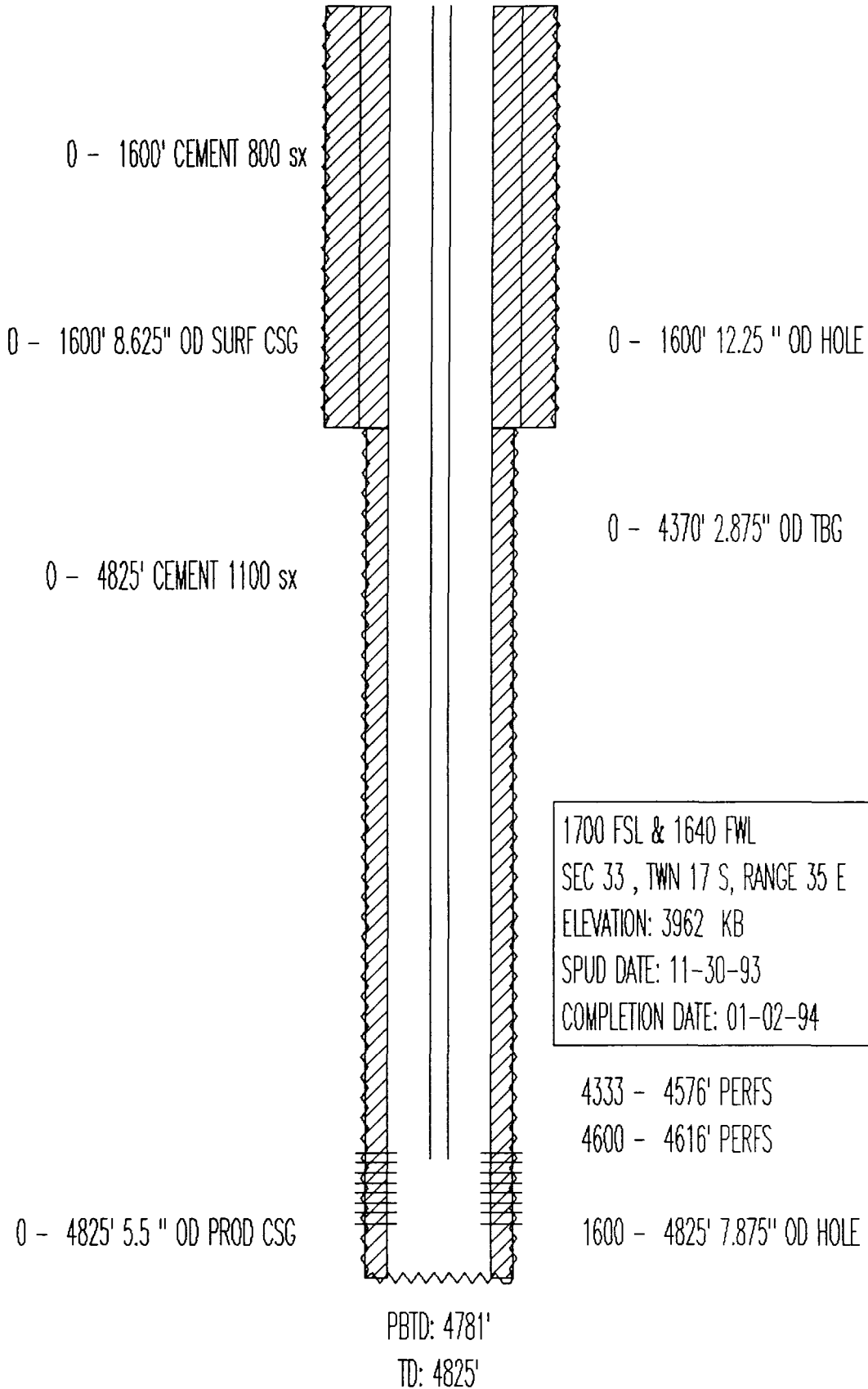


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API# 3002532063

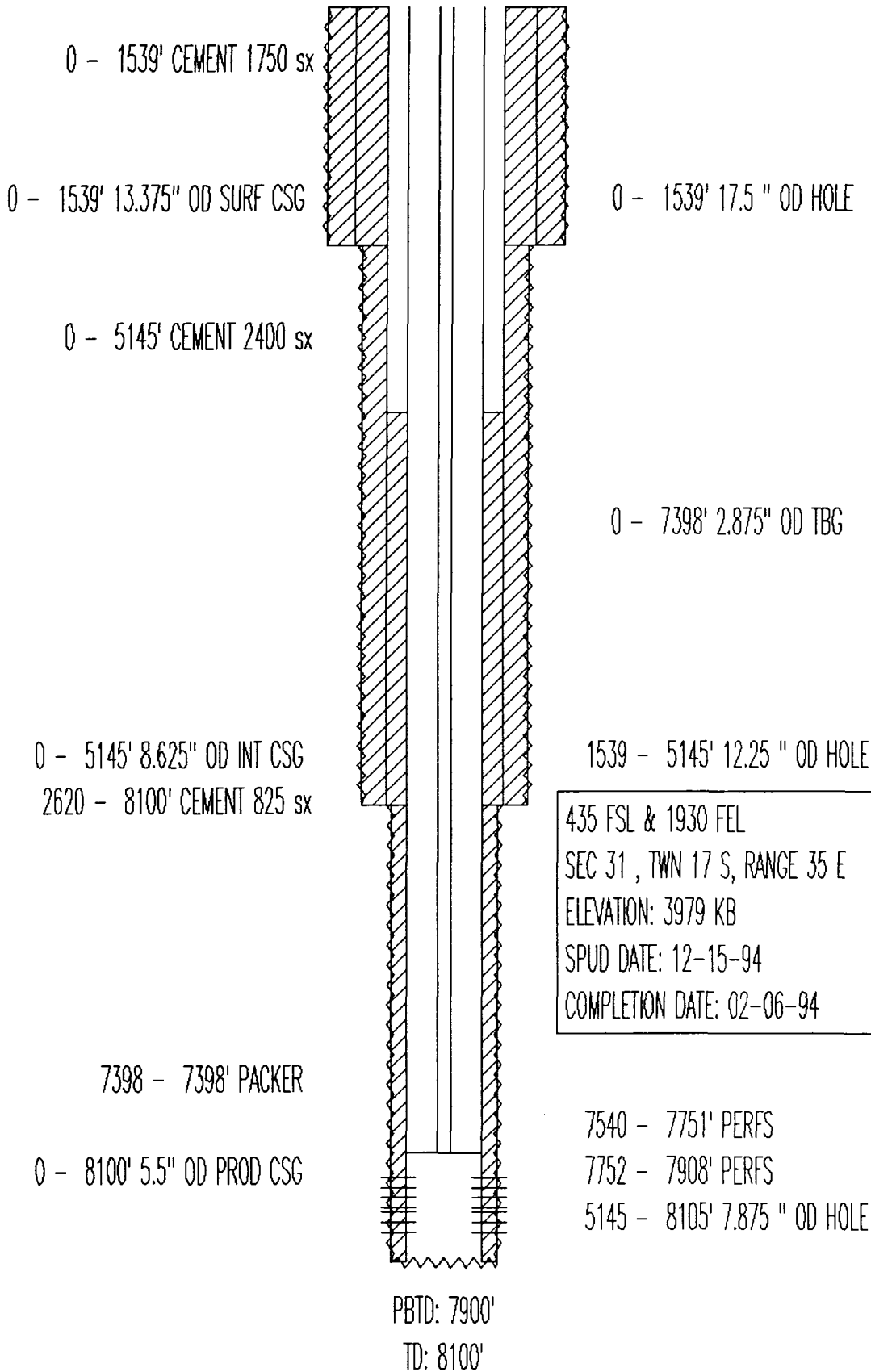




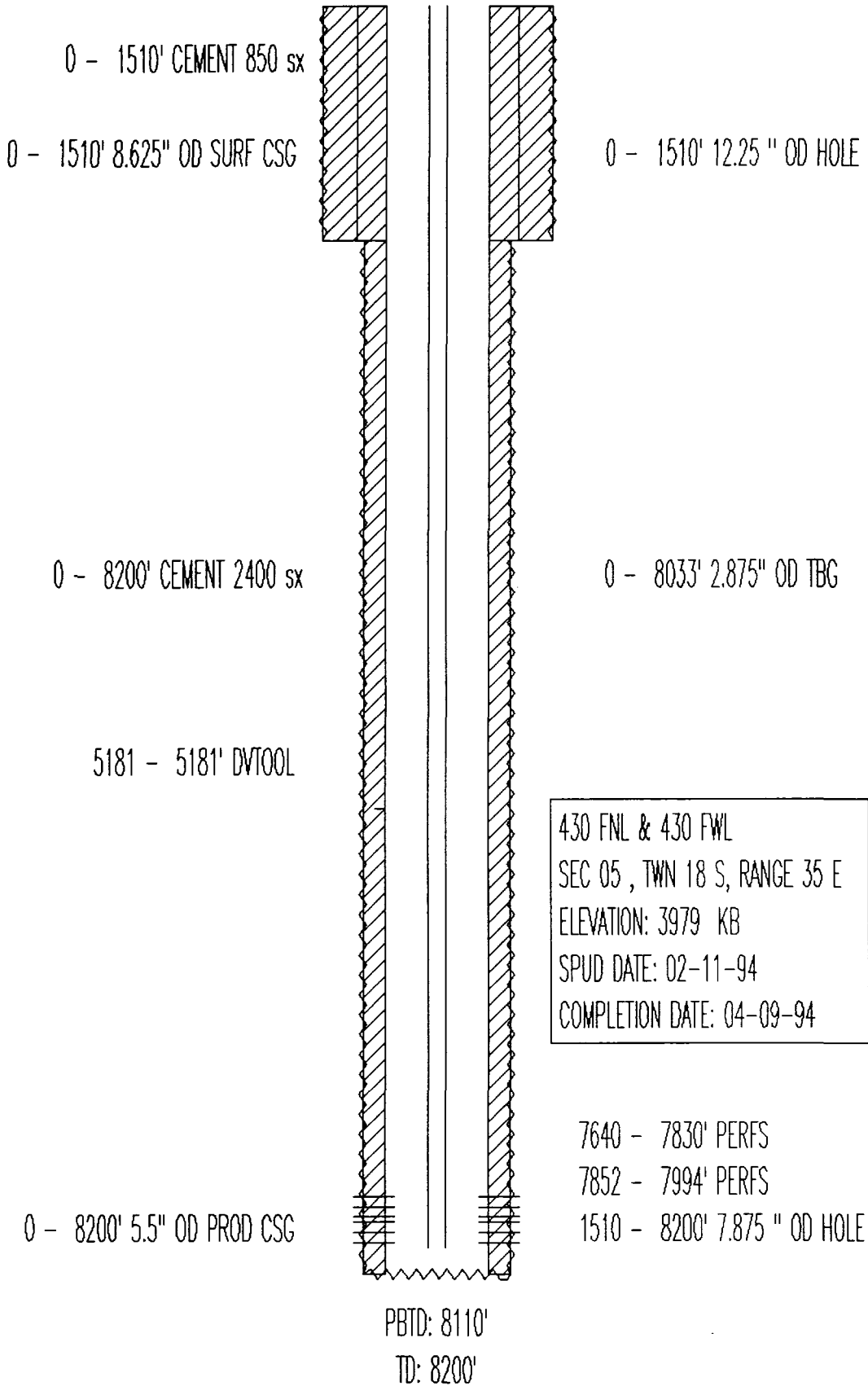
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EVGSAU 3373-002  
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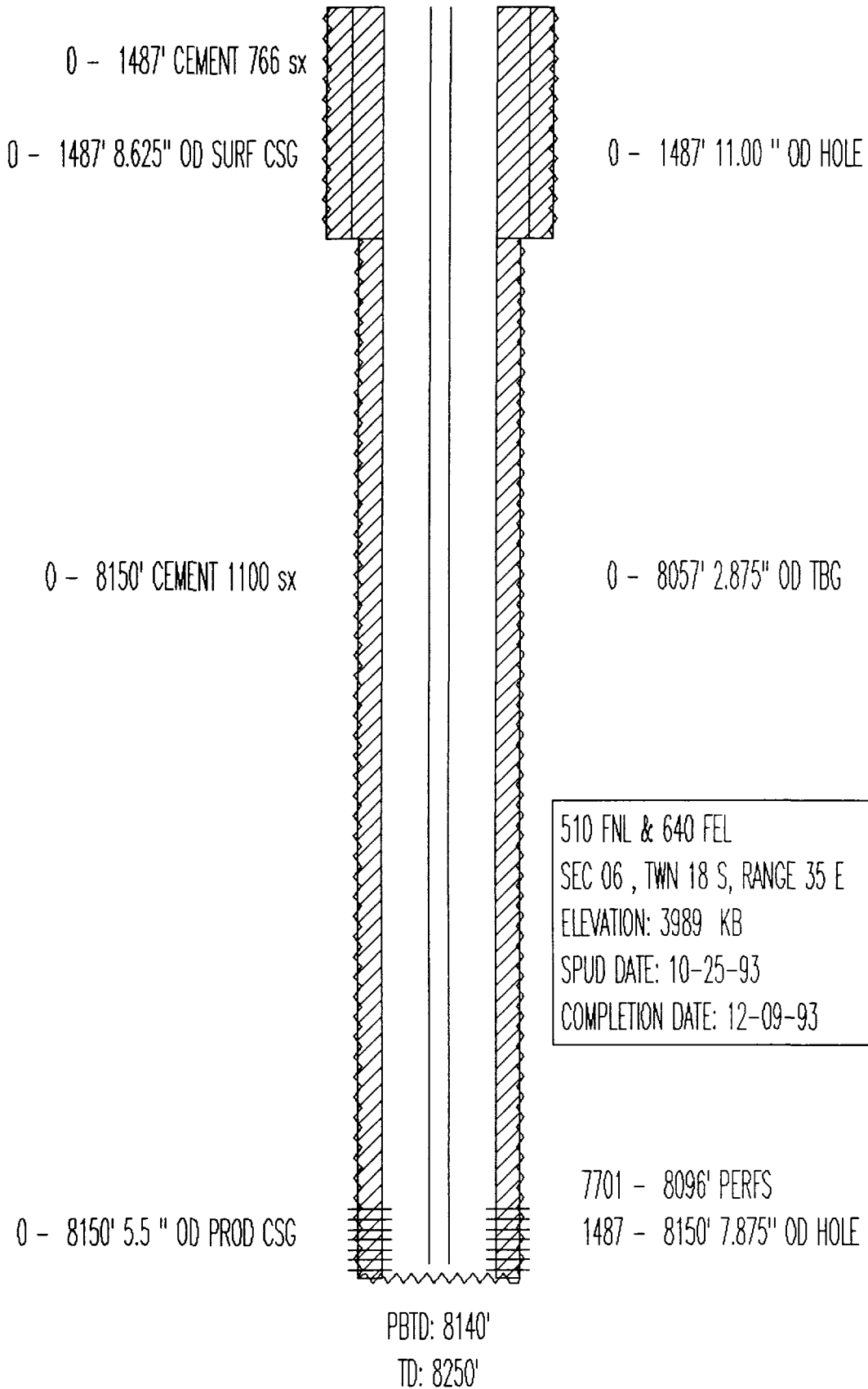
PHILLIPS PET  
SANTA FE #133  
API# 3002532333



PHILLIPS PET  
SANTA FE #134  
API# 3002532414



TEXACO EXPL & PROD  
NM "R" STATE #15  
API# 3002532019



**EAST VACUUM GRAYBURG SAN ANDRES UNIT  
ATTACHMENT VII TO FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT WATER  
AND CARBON DIOXIDE**

**DATA ON THE PROPOSED OPERATION  
OF THE INJECTION WELLS UNDER APPLICATION**

The proposed average and maximum daily water injection rates per well is:

Average daily rate 1,200 BWPD, Maximum daily rate 2,200 BWPD

The proposed average and maximum daily carbon dioxide rate per well is:

Average daily rate 3,000 MMSCFD, Maximum daily rate 5,000 MMSCFD

Both the water and carbon dioxide systems are closed.

The proposed average and maximum surface injection pressures for water are:

Average injection pressure 1,000 PSIG, Maximum\* injection pressure 1,350 PSIG

The proposed average and maximum surface injection pressures for carbon dioxide are:

Average injection pressure 1,500 PSIG, Maximum\* injection pressure 1,850 PSIG

\* Maximum injection pressures are based on pre-existing Unit injection pressure allowable which are based on actual San Andres fracture gradients.

There are two sources of injection water makeup, San Andres produced water from Phillips operated East Vacuum Grayburg San Andres Unit and Ogallala fresh water from the EVGSAU water supply wells. Both waters have been injected into the San Andres formation since 1979, and are compatible with each other and the San Andres formation. The two sources of carbon dioxide are from reinjected produced gas and purchased pipeline sales gas. The gas composition is approximately:

CARBON DIOXIDE	91 %
HYDROGEN SULPHIDE	2 %
NITROGEN	2 %
HYDROCARBON	5 %

Carbon dioxide has been injected into the San Andres Formation since 1985 under the authority on NMOCD Order No. R6856 dated 12/16/81.

**EAST VACUUM GRAYBURG SAN ANDRES UNIT  
ATTACHMENT IX TO FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT WATER  
AND CARBON DIOXIDE**

**PROPOSED STIMULATION PROGRAM  
FOR A  
TYPICAL SAN ANDRES INJECTION WELL**

All injection wells will be cased hole completions selective perforated within the unitized interval. Initial stimulation will be small to medium sized matrix Hydrochloric acid treatments. Acid concentrations will typically range from 7 1/2% to 20 % depending on anticipated completion damage. As the waterflood matures additional matrix acid treatments may be preceded by an oil soluble surfactant, and the acid mixture may contain commercial mutual solvents.



**EAST VACUUM GRAYBURG SAN ANDRES UNIT  
ATTACHMENT XII TO FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT WATER  
AND CARBON DIOXIDE**

**STATEMENT OF HYDRAULIC INTEGRITY**

Phillips Petroleum Company has examined available geological and engineering data and finds no evidence of open faults nor any other hydraulic connection between the injection zone and any underground source of drinking water.

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Kathi Bearden

General Manager


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 a supplement thereof for a period.

of \_\_\_\_\_

one weeks.  
Beginning with the issue dated

July 31, 19 94  
and ending with the issue dated

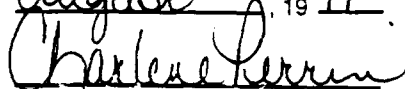
July 31, 19 94



General Manager

Sworn and subscribed to before

me this 1 day of

August, 19 94  


Notary Public.

My Commission expires  
March 15, 1997  
(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

July 31, 1994

Notice is hereby given of the application of Phillips Petroleum Company, 4001 Penbrook Street, Odessa, Texas 79762, Attn: L.M. Sanders, (915)368-1488, to the Oil Conservation Division, New Mexico Energy and Mineral Department, for approval of the following water injection well authorization for the purpose of produced water injection:

Well Name: East Vacuum Gb/SA Unit #383 Field: Vacuum Gb/SA

Location: 1769 feet from the West line and 1219 feet from the South line, Section 33, T-17-S, R-35-E, Lea County NM.

The water injection formation is Grayburg/San Andres at a depth of 4350'-4650' below the surface of the ground.

Expected maximum water injection rate is 2200 bbls per day and expected maximum water 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.

Received

AUG 04 1994

P.B.R. Regulatory Section

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I. Kathi Bearden

General Manager

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 a  
supplement thereof for a period.

of \_\_\_\_\_

one weeks.  
Beginning with the issue dated

July 31, 19 94  
and ending with the issue dated

July 31, 19 94

Kathi Bearden  
General Manager

Sworn and subscribed to before

me this 1 day of  
August, 19 94  
Charlene Perrin  
Notary Public.

My Commission expires  
March 13, 1997  
(Seal)

This newspaper is duly qualified  
to publish legal notices or adver-  
tisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for  
said publication has been made.

LEGAL NOTICE

July 31, 1994

Notice is hereby given of  
the application of Phillips  
Petroleum Company, 4001  
Penbrook Street, Odessa,  
Texas 79762, Attn: L.M.  
Sanders, (915)368-1488, to  
the Oil Conservation Divi-  
sion, New Mexico Energy  
and Mineral Department, for  
approval of the following wa-  
ter injection well authoriza-  
tion for the purpose of pro-  
duced water injection:

Well Name: East Vacuum  
Gb/SA Unit #384 Field: Va-  
cuum Gb/SA

Location: 2524 feet from the  
East line and 825 feet from  
the South line, Section 32, T-  
17-S, R-35-E, Lea County  
NM.

The water injection forma-  
tion is Grayburg/San Andres  
at a depth of 4350'-4650' be-  
low the surface of the  
ground.

Expected maximum water  
injection rate is 2200 bbls  
per day and expected maxi-  
mum water injection pres-  
sure is 1350 pounds per  
square inch.

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

Received

AUG 04 1994

P.D.R. Regulatory Section

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Kathi Bearden

General Manager

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 a supplement thereof for a period.

of \_\_\_\_\_

one weeks.

Beginning with the issue dated

July 31, 19 94

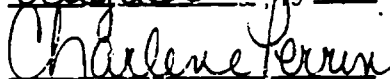
and ending with the issue dated

July 31, 19 94

  
General Manager

Sworn and subscribed to before

me this 1 day of

August, 19 94  


Notary Public.

My Commission expires

March 15, 1997

(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**

**July 31, 1994**

Notice is hereby given of the application of Phillips Petroleum Company, 4001 Penbrook Street, Odessa, Texas 79762, Attn: L.M. Sanders, (915)368-1488, to the Oil Conservation Division, New Mexico Energy and Mineral Department, for approval of the following water injection well authorization for the purpose of produced water injection:

Well Name: East Vacuum Gb/SA Unit #385 Field: Vacuum Gb/SA

Location: 1160 feet from the East line and 875 feet from the South line, Section 32, T-17-S, R-35-E, Lea County NM.

The water injection formation is Grayburg/San Andres at a depth of 4350'-4650' below the surface of the ground.

Expected maximum water injection rate is 2200 bbls per day and expected maximum water 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.

Received

AUG 04 1994

P.E.R. Regulatory Section

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Kathi Bearden

General Manager

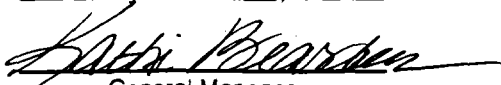
of the Hobbs Daily News-Sun, a  
daily newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of \_\_\_\_\_

one weeks.  
Beginning with the issue dated

July 31, 1994  
and ending with the issue dated

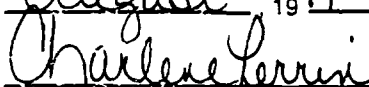
July 31, 1994



General Manager

Sworn and subscribed to before

me this 1 day of

August, 1994  


Notary Public.

My Commission expires

March 15, 1997

(Seal)

This newspaper is duly qualified  
to publish legal notices or adver-  
tisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for  
said publication has been made.

**LEGAL NOTICE**

July 31, 1994

Notice is hereby given of  
the application of Phillips  
Petroleum Company, 4001  
Penbrook Street, Odessa,  
Texas 79762, Attn: L.M.  
Sanders, (915)368-1488, to  
the Oil Conservation Divi-  
sion, New Mexico Energy  
and Mineral Department, for  
approval of the following wa-  
ter injection well authoriza-  
tion for the purpose of pro-  
duced water injection:

Well Name: East Vacuum  
Gb/SA Unit #386 Field: Va-  
cuum Gb/SA

Location: 531 feet from the  
West line and 1310 feet from  
the South line, Section 32, T-  
17-S, R-35-E, Lea County  
NM.

The water injection forma-  
tion is Grayburg/San Andres  
at a depth of 4350'-4650' be-  
low the surface of the  
ground.

Expected maximum water  
injection rate is 2200 bbls  
per day and expected maxi-  
mum water injection pres-  
sure is 1350 pounds per  
square inch.

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

Received

AUG 04 1994

P.E.R. Regulatory Section

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Kathi Bearden

General Manager

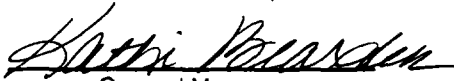
of the Hobbs Daily News-Sun, a  
daily newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of \_\_\_\_\_

one weeks.  
Beginning with the issue dated

July 31, 1994  
and ending with the issue dated

July 31, 1994



General Manager

Sworn and subscribed to before

me this 1 day of

August, 1994



Notary Public.

My Commission expires  
March 15, 1997  
(Seal)

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sion, New Mexico Energy  
and Mineral Department, for  
approval of the following wa-  
ter injection well authoriza-  
tion for the purpose of pro-  
duced water injection:

Well Name: East Vacuum  
Gb/SA Unit #387 Field: Va-  
cuum Gb/SA

Location: 508 feet from the  
West line and 1440 feet from  
the South line, Section 33, T-  
17-S, R-35-E, Lea County  
NM.

The water injection forma-  
tion is Grayburg/San Andres  
at a depth of 4350'-4650' be-  
low the surface of the  
ground.

Expected maximum water  
injection rate is 2200 bbls  
per day and expected maxi-  
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sure is 1350 pounds per  
square inch.

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

Received

AUG 04 1994

P.E.R. Regulatory Section



**ATTACHMENT NO. XIV**

**Notification**

**I hereby certify that a complete copy of this application was sent by certified mail to the below listed persons on August 5, 1993.**

**Signed:**

**Name:**

**Title:**

**Date:**

  
L. M. Sanders

Supervisor, Regulatory Affairs

8-5-94

**Surface Owner:**

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

**Offset Operators:**

Chevron U.S.A. Inc.  
P. O. Box 670  
Hobbs, New Mexico 87240

Texaco Exploration & Production, Inc.  
P. O. Box 730  
Hobbs, New Mexico 88240

Shell Western E&P, Inc.  
P. O. Box 576  
Houston, TX 77001-0576

Phillips Petroleum Company  
4001 Penbrook Street  
Odessa, TX 79762

AF:chg  
08-05-94

AthmtXIV.Not

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Instruction on back  
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DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 62180	Pool Name VACUUM GRAYBURG/SAN ANDRES
Property Code 009166	Property Name EAST VACUUM Gb/SA UNIT	Well Number 383
OGRID No. 017643	Operator Name PHILLIPS PETROLEUM CO.	Elevation 3946'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	17 S	35 E		1219	SOUTH	1769	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	17 S	35 E		1219	SOUTH	1769	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
-----------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

1769' M

1219'

3345

**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

*[Signature]*  
Signature  
L. M. Sanders  
Printed Name  
Supv., Reg. Affairs  
Title  
8/5/94  
Date

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 20, 1994

Date Surveyed

*[Signature]*  
Signature & Seal of Professional Surveyor

W.O. Num. 94-11-1290

Certificate No. JOHN W. WEST, 678  
RONALD J. EIDSON, 3238  
GARY L. JONES, 7877

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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1000 Rio Brazos Rd., Artec, NM 87410

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Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 62180	Pool Name VACUUM GRAYBURG/SAN ANDRES
Property Code 009166	Property Name EAST VACUUM Gb/SA UNIT	Well Number 384
GRID No. 017643	Operator Name PHILLIP'S PETROLEUM COMPANY	Elevation 3954'

Surface Location

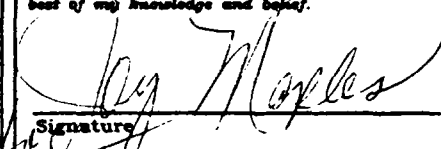
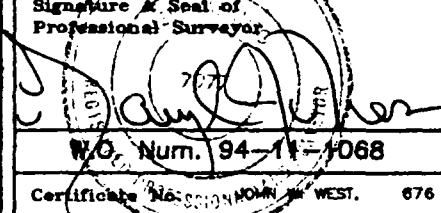
UL or lot No. O	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 825	North/South line SOUTH	Feet from the 2524	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. O	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 825	North/South line South	Feet from the 2524	East/West line East	County Lea
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
-----------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

D	C	B	A	<b>OPERATOR CERTIFICATION</b>  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   Signature L. M. Sanders Printed Name Supv., Reg. Affairs Title 8/5/94 Date	
E	F	G	H		<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JUNE 27, 1994 Date Surveyed  Signature & Seal of Professional Surveyor W.O. Num. 94-11-1068 Certificate No. 7977 RONALD J. EIDSON, 3239 GARY L. JONES, 7977
L	K	J	I		
M	N	O	P		

2524'

825'

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

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P.O. Drawer 22, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 62180	Pool Name VACUUM GRAYBURG/SAN ANDRES
Property Code 009166	Property Name EAST VACUUM Gb/SA UNIT	Well Number 385
OGRID No. 017643	Operator Name PHILLIP'S PETROLEUM COMPANY	Elevation 3955'

Surface Location

UL or lot No. P	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 875	North/South line SOUTH	Feet from the 1160	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. P	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 875	North/South line SOUTH	Feet from the 1160	East/West line EAST	County LEA
--------------------	---------------	------------------	---------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

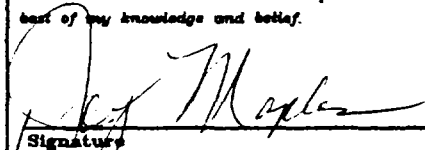
D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

1160'

875'

**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

  
Signature

L. M. Sanders  
Printed Name

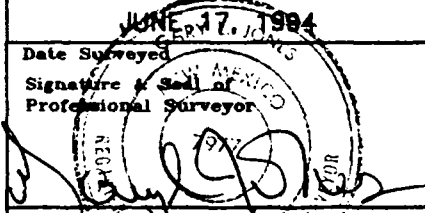
Supv., Reg. Affairs  
Title

8/5/94  
Date

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 17, 1994  
Date Surveyed

  
Signature & Seal of Professional Surveyor

W.O. Num. 94-11-1050

Certificate No. 676  
RONALD J. EIDSON, 3239  
GARY L. JONES, 7977

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

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DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT III  
1000 Rio Brazos Rd., Asteo, NM 87410

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 62180	Pool Name VACUUM GRAYBURG/SAN ANDRES
Property Code 009166	Property Name EAST VACUUM Gb/SA UNIT	Well Number 386
OGRID No. 017643	Operator Name PHILLIP'S PETROLEUM COMPANY	Elevation 3969'

Surface Location

UL or lot No. M	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 1310	North/South line SOUTH	Feet from the 531	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. M	Section 32	Township 17 S	Range 35 E	Lot Idn	Feet from the 1310	North/South line SOUTH	Feet from the 531	East/West line WEST	County LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

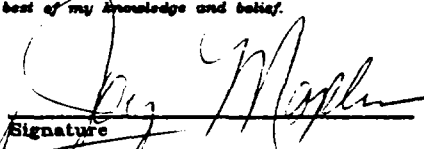
D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

531'

1310'

**OPERATOR CERTIFICATION**

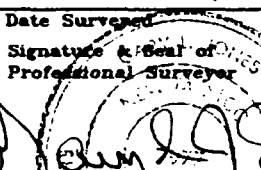
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

  
Signature  
L. M. Sanders  
Printed Name  
Supv., Reg. Affairs  
Title  
8/5/94  
Date

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 17, 1994

Date Surveyed  
Signature & Seal of Professional Surveyor  
  
W.D. Num. 94-11-1048  
Certificate No. JOHN W. WEST, 678  
RONALD J. EIDSON, 3239  
GARY L. JONES, 7977

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Artec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 62180	Pool Name Vacuum Grayburg/San Andres
Property Code 009166	Property Name EAST VACUUM Gb/SA UNIT	Well Number 387
OGRID No. 017643	Operator Name PHILLIPS PETROLEUM COMPANY	Elevation 3951'

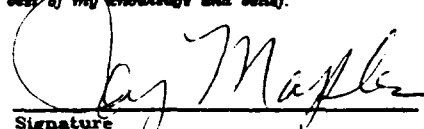
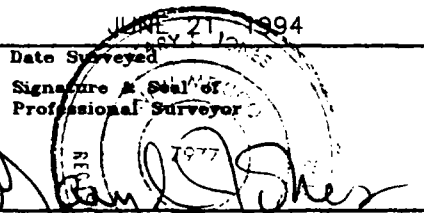
Surface Location

UL or lot No. L	Section 33	Township 17 S	Range 35 E	Lot Idn	Feet from the 1440	North/South line SOUTH	Feet from the 508	East/West line WEST	County LEA
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

Bottom Hole Location If Different From Surface

UL or lot No. L	Section 33	Township 17 S	Range 35 E	Lot Idn	Feet from the 1440	North/South line South	Feet from the 508	East/West line West	County Lea
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

D	C	B	A	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature L. M. Sanders Printed Name Supv., Reg. Affairs Title  Date	
E	F	G	H		<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JUNE 21 1994 Date Surveyed Signature & Seal of Professional Surveyor  W.O. Num. 94-11-1051 Certificate No. JOHN W. WEST, 676 RONALD J. EDSON, 3239 GARY L. JONES, 7977
L	K	J	I		
M	N	O	P		

508' 1440'



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

RECEIVED

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

54 AUG 15 AM 8 50

BRUCE KING  
GOVERNOR

August 11, 1994

POST OFFICE BOX  
HOBBS, NEW MEXICO  
(505) 393-61

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

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____ x

DMX-176

Gentlemen:

I have examined the application for the:

PHILLIPS PETROLEUM COMPANY	EAST VACUUM GRAYBURG SAN ANDRES UNIT
Operator	Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly

Jerry Sexton  
Supervisor, District 1

/ed



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

March 10, 1995

Phillips Petroleum Company  
4001 Penbrook  
Odessa, Texas 79762

Attn: Mr. Keith H. Maberry

***RE: Injection Pressure Increase East Vacuum Grayburg San Andres  
Unit Waterflood Project, Lea County, New Mexico***

Dear Mr. Mayberry:

Reference is made to your request dated February 21, 1995 to increase the surface injection pressure on 4 wells in the above referenced waterflood project. This request is based on step rate tests conducted between February 13 and February 15, 1995. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Surface Injection Pressure
East Vacuum Grayburg San Andres Unit Well No.383, Unit Letter M, Section 33	2070 PSIG
East Vacuum Grayburg San Andres Unit Well No.384, Unit Letter O, Section 32	2090 PSIG
East Vacuum Grayburg San Andres Unit Well No.385, Unit Letter P, Section 32	1660 PSIG
East Vacuum Grayburg San Andres Unit Well No.386, Unit Letter M, Section 32	1920 PSIG
All wells located Township 17 South, Range 35 East, Lea County, New Mexico.	

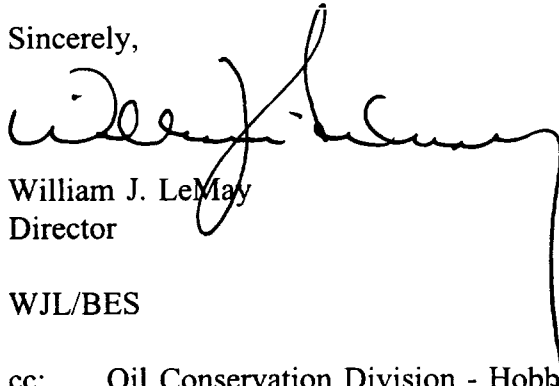


*Injection Pressure Increase*  
*Phillips Petroleum Company*  
*March 10, 1995*  
*Page 2*

---

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long horizontal stroke extending to the right and a vertical line dropping down from the end.

William J. LeMay  
Director

WJL/BES

cc: Oil Conservation Division - Hobbs  
Files: PMX-176; PSI-X 1st QTR 95

# NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

## Oil Conservation Division

August 11, 1995

Phillips Petroleum Company  
4001 Penbrook  
Odessa, Texas 79762

Attn: Mr. Kevin E. Snow

**RE: *Injection Pressure Increase East Vacuum Grayburg San  
Andres Unit Waterflood Project Lea County, New Mexico***

Dear Mr. Snow:

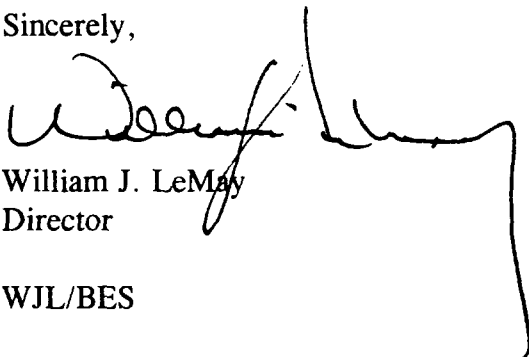
Reference is made to your request dated July 20, 1995 to increase the surface injection pressure on one well in the above referenced waterflood project. This request is based on a step rate test conducted on this well on July 10, 1995. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

Well and Location	Maximum Injection Surface Pressure
East Vacuum Grayburg San Andres Unit Well No. 3374-387, Unit Letter "L"	2230 PSIG
Located in Section 33 of Township 17 South, Range 35 East, Lea County, New Mexico.	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



William J. LeMay  
Director

WJL/BES

cc: Oil Conservation Division - Hobbs  
File: PMX-176; PSI-X 3rd QTR 95