

APPLICATION FOR AUTHORIZATION TO INJECT

State 197 #3 - Unit F Sec. 6-T17S-R34E

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Yates Petroleum Corporation
Address: 207 S. Fourth Street, Artesia, New Mexico 88210
Contact party: Albert R. Stall Phone: (505) 746-3558
- 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 _____.
- 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: Albert R. Stall

Title Engineer

Signature: Albert R. Stall

Date: 6-13-86

- * 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. Electric logs were submitted by the original operator,

Sinclair Oil & Gas Co., to the N.M.O.C.D. District Office - Hobbs.

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

FORM C-108 Supplement

State 197 #3

I. Purpose:

To re-enter this well and complete in the Queen formation as a salt water disposal well. Planned injection interval is 3750-3790'.

II. The Operator is Yates Petroleum Corporation
207 South Fourth Street
Artesia, New Mexico 88210

Attn: Albert R. Stall

III. Well Data:

See attached well data sheet.

V. Lease ownership map attached (Midland Map Co.) with a scale of:
1" = 2000'.

Well and lease information posted through January 1, 1986. Map has a two-mile radius circle and a one-half mile radius circle around the subject well.

VI. There are three wells, including the proposed disposal well, within the area of review, as shown on the attached map. All available data concerning the three wells is included in the attached tabulation and schematics.

VII. Data on proposed operations:

(1). The proposed average rate of injection is 2000 barrels per day, and the estimated maximum is 5000 barrels per day. The estimated total volume of fluid to be injected is 18.25×10^6 bbls.

(2). The system will be closed.

(3). The average injection pressure will be 0 to 754 PSIG.

(4). The source of injection fluid will be produced water from the following wells:

a. Hoover "ADR" St. #1
1650' FSL & 990' FEL
Sec. 1, T.17S., R.33E.
Queen Formation—3767-3774'
See attached analysis.

b. Hot Toddy "ABQ" St. #1
1980' FNL & 1500' FEL
Sec. 18, T.16S., R.34E.
Upper Wolfcamp Formation—10051-10056'
See attached analysis.

c. Vacuum North "ADJ" St. Comm #1
833' FNL & 660' FNL
Sec. 34, T.16S., R.34E.
Permo Penn Formation—10185-10756'
See attached analysis.

- (5). Chlorides from water produced by the above-mentioned wells range from 61,334 to 180,000 parts per million. The subject well is not yet completed in the proposed injection zone and therefore, a water analysis is not available. However, water chlorides are expected to be very similar to the produced water of the Hoover "ADR" St. #1 and injection compatibility appears acceptable.

The proposed injection zone is not included within the vertical limits of any established pool.

VIII. Geological data:

Injection zone: 3750-3790'

Queen (Permian)

Sandstone: gray, very fine grain, subangular to subrounded,
good intergranular porosity, friable

Dolomite: some dolomite cement

The underground source of drinking water in this area is Ogallala formation of Tertiary age, the base of which is estimated at 250' at the location of the proposed disposal well. There are no other probable fresh water aquifers in this area.

- IX. The planned completion program is to selectively perforate and stimulate with acid within the proposed injection interval 3750-3790'.
- X. Electric logs have been submitted to the NMOCD, Hobbs District Office by the original operator, Sinclair Oil & Gas Co.
- XI. There are three water wells within a one-mile radius of the subject well. Location and status are as follows:

<u>LOCATION</u>	<u>STATUS</u>
Unit H Sec.6,T.17S.,R.34E.	Open well-inoperative-no sample available
Unit M Sec.6,T.17S.,R.34E.	Capped well-inoperative-no sample available
Unit B Sec.7,T.17S.,R.34E.	Capped well-inoperative-no sample available

- XII. Available geological and engineering data have been examined and no evidence of open faults or any other hydrologic connections between the disposal zone and any underground fresh water aquifers have been found.

XIII. The offset operators listed below have been furnished a copy of this application by certified mail.

Mobil Producing Texas &
New Mexico, Inc.
P.O. Box 633
Midland, TX 79702
ATTN: Kent M. Johnston

Southern Union Expl. Co.
Suite 400
1217 Main St.
Dallas, TX 75202
ATTN: Craig Nielson

H.L. Brown, Jr.
P.O. 2237
Midland, TX 79702
ATTN: Peter Courtney

Tenneco Oil Company
7990 IH IO West
San Antonio, TX 78230
ATTN: Rex Bourland

Amoco Production Company
P.O. Box 3092
Houston, TX 77253
ATTN: C.L. Raper

The surface owners listed below have been furnished a copy of this application by certified mail.

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

Grazing Lessee:
Williams & Son Cattle Co.
%Billy Williams
P.O. Box 30
Maljamar, New Mexico 88264

Additional data submitted:

Copies of Petroleum Information, Inc. (P.I.) cards for all wells within a two-mile radius.

INJECTION WELL DATA SHEET

Yates Petroleum Corporation		State 197	
OPERATOR		LEASE	
3	1980' FNL & 1762.5' FWL	6	17S. 34E.
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP RANGE

Schematic

See attached schematic.

Tabular DataSurface Casing

Size 13 3/8 " Cemented with 350 sq.
TOC Surface feet determined by circulation
Hole size 17 1/2"

Intermediate Casing None

Size _____ " Cemented with _____ sq.
TOC _____ feet determined by _____
Hole size _____

Long string None presently - will be installed during re-

Size 5 1/2 " Cemented with 1500 sq.
TOC Surface feet determined by circulation
Hole size 8 3/4"
Total depth 5040'

Injection interval

3750 feet to 3790 feet
(perforated or open-hole, indicate which) perforated

Tubing size 2 7/8" lined with plastic set in a
(material)
Guiberson Uni VI nickel-plated packer at 3700 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Queen
- Name of Field or Pool (if applicable) None
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? oil and/or gas test
- 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 - Drilled & Abandoned
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Vacuum Grayburg San Andres - approximate depth is 4650'
N.W. Vacuum Wolfcamp - approximate depth is 10950'
N.W. Vacuum Penn - approximate depth is 11750'

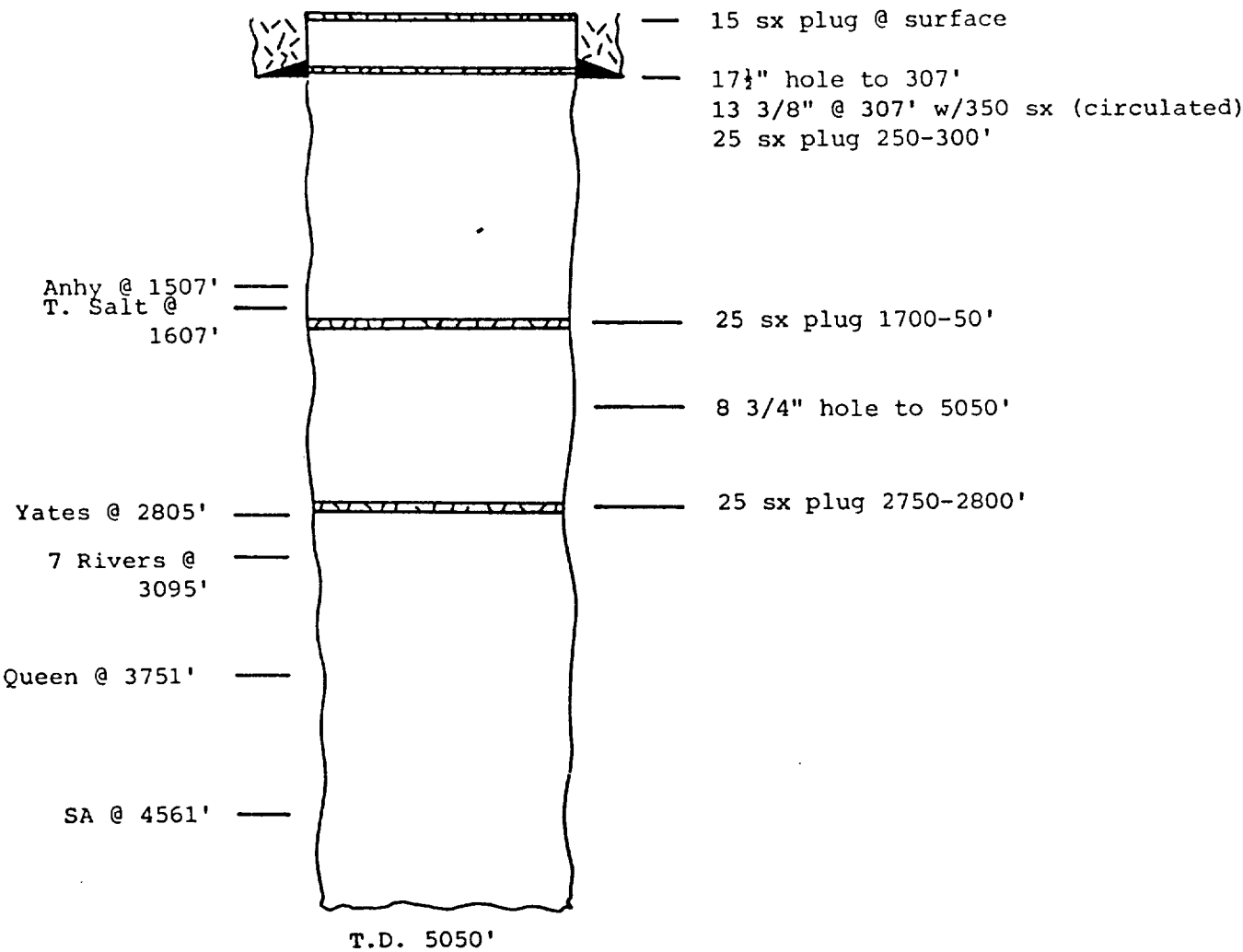
TABULATION
State 197 #3
Wells Within Area of Review

Sec. 6, T.17S., R.34E.

- (1). Sinclair Oil & Gas Co. State 197 #3 1980' FNL & 1762.5' FWL
This well was completed in April, 1957 as a dry hole. TD was 5050' - San Andres. Casing and cement: 13 3/8" in 17 1/2" hole set at 307' and cemented with 350 sacks, cement circulated to surface; 8 3/4" hole to TD with no production casing run. Well was plugged per attached schematic, "Present Well Condition." Yates Petroleum Corporation proposes to re-enter this well as the State 197 #3 and complete for water disposal as shown on the attached "Injection Well Data Sheet" and "Disposal Well Diagram".
- (2). H.L. Brown, Jr. State "B" #1 2310' FWL & 860' FEL
This well was originally completed on February 23, 1972, as a Vacuum Wolfcamp well producing from perforations 10754' to 10762' with an initial potential of 100 BOPD and 44 BWP. It was plugged back and recompleted in December, 1973 in the Vacuum Grayburg-San Andres producing from perforations 4643' to 4651'. Initial potential for the recompletion on December 6, 1973, was 5 1/2 BOPD. The well was later plugged and abandoned. Plugging details are shown on the attached schematic. Casing and cement: see attached schematic.
- (3). H.L. Brown, Jr. State "B" #2 990' FSL & 330' FWL
This well was completed on February 4, 1974, as a dry hole. TD was 11120' - Wolfcamp. Casing and cement: 11 3/4" in 17" hole set at 387' and cemented with 400 sacks, cement circulated to surface; 8 5/8" in 11" hole set at 4700' and cemented with 250 sacks, no cement top reported, calculated top is 3400'; 7 7/8" hole drilled to TD with no production casing run. Plugging details are shown on the attached schematic. 8 5/8" casing was cut and pulled from 1250'.

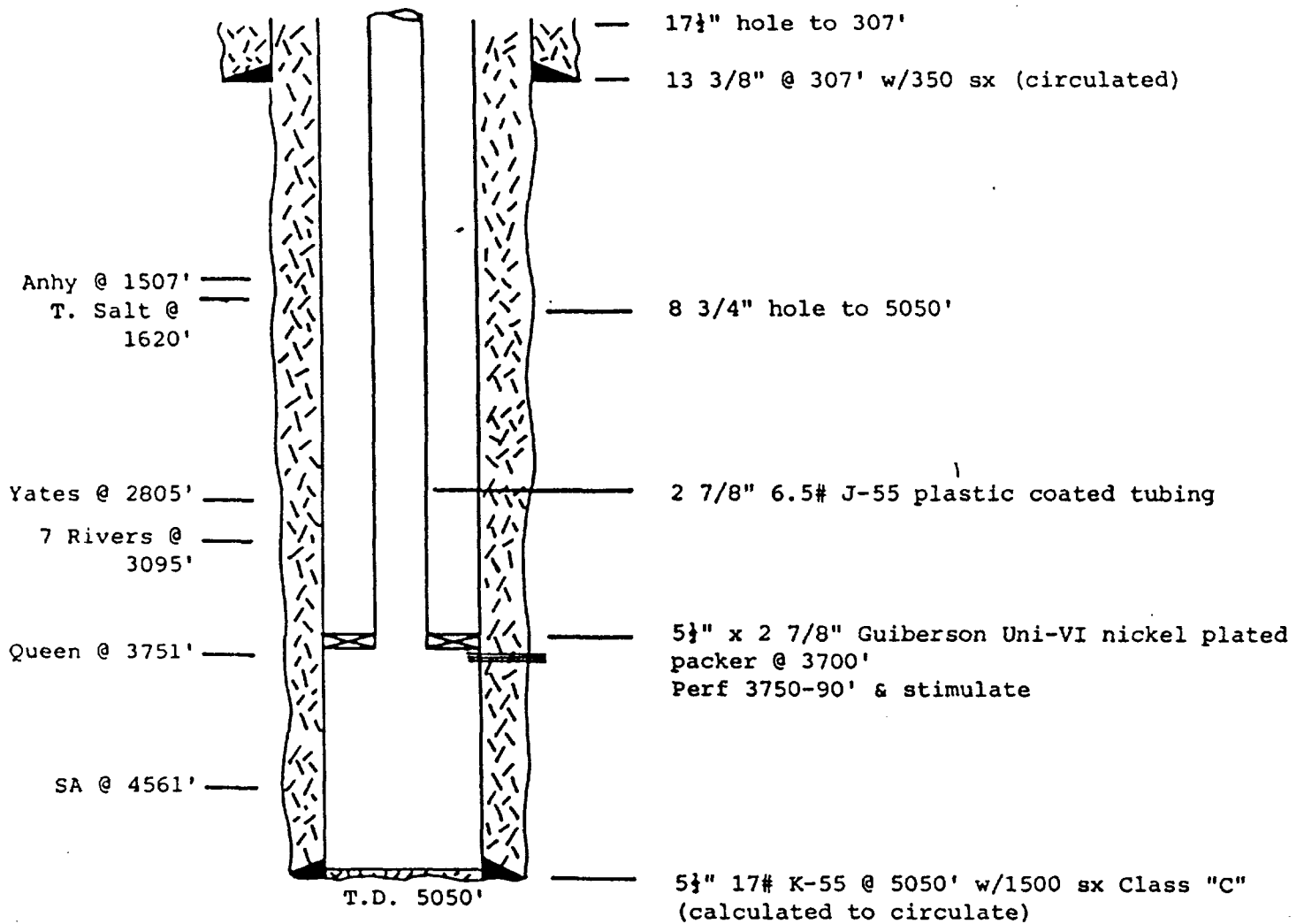
State 197 #3
Sec. 6-17S-34E
1980' FNL & 1762.5' FWL
Elevation 4130' GL
Spud Date: 3-19-57
Compl. Date: 4-57

PRESENT WELL CONDITION

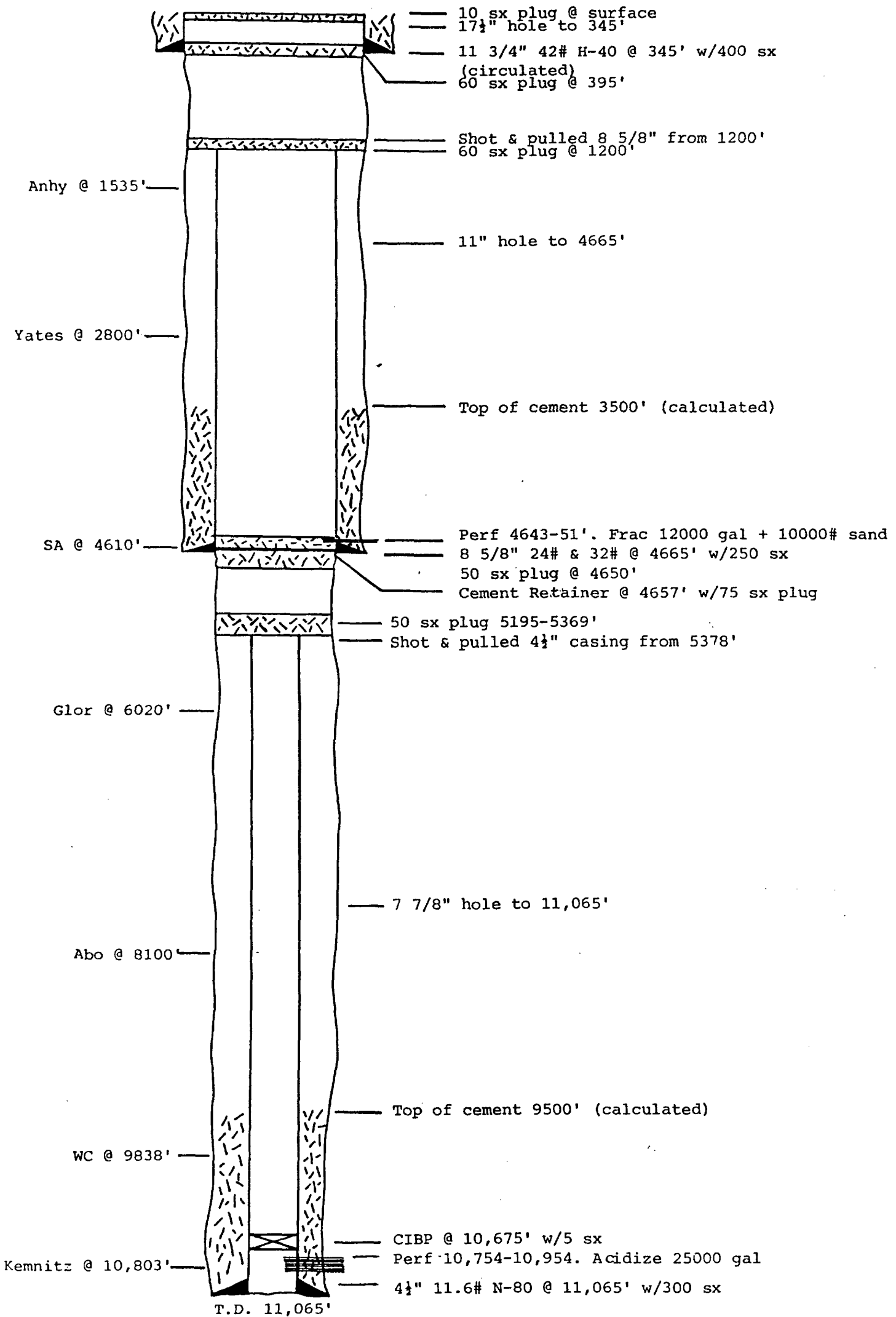


State 197 #3
 Sec. 6-17S-34E
 1980' FNL & 1762.5' FWL
 , Elevation 4130' GL

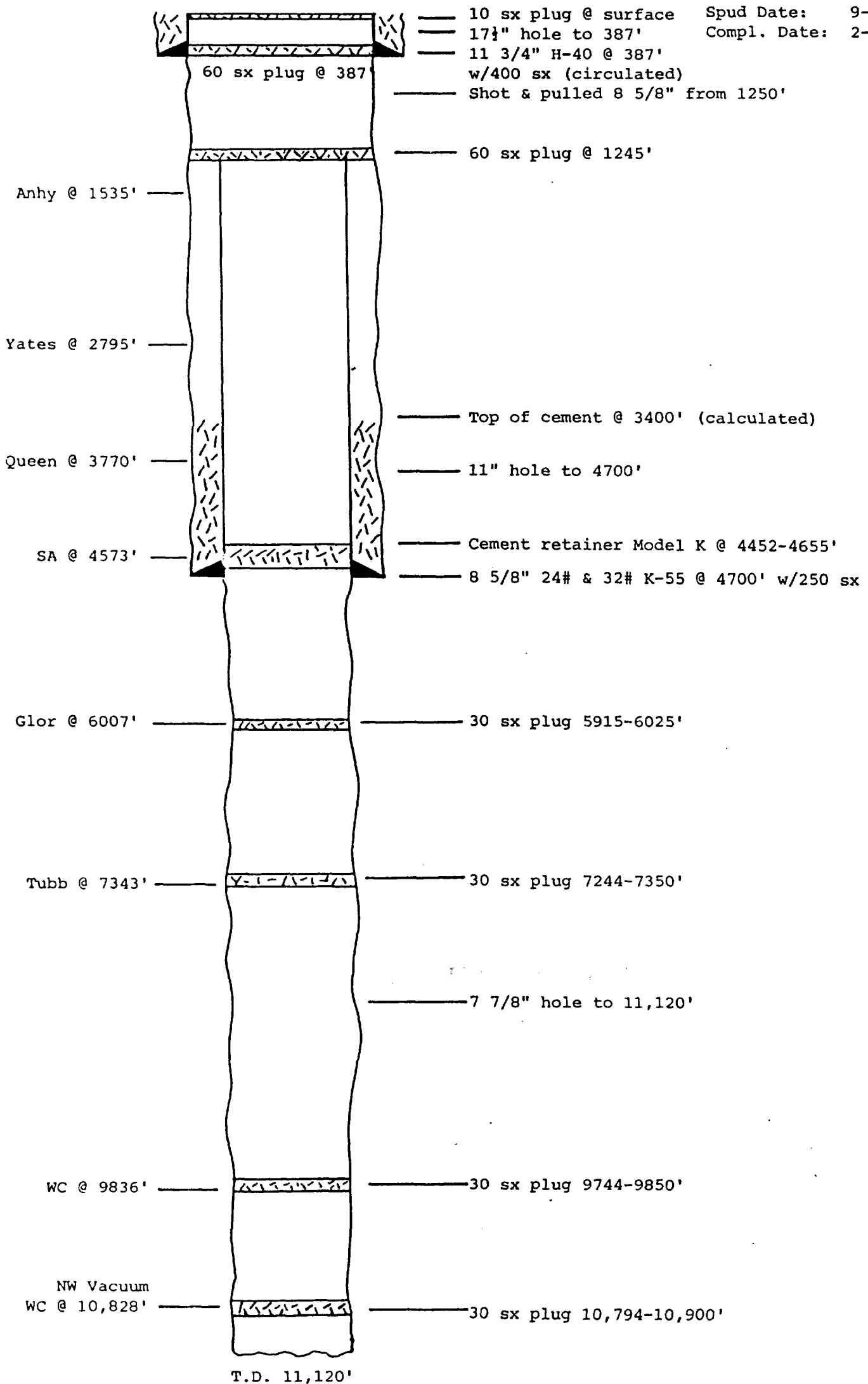
PROPOSED DISPOSAL WELL



H.L. Brown, Jr.
 State "B" #1
 Sec. 6-17S-34E
 2310' FSL & 860' REL
 Elevation 4122' GL
 Spud Date: 11-22-71
 P & A Date: 1-26-74



State "B" #2
 Sec. 6-17S-34E
 990' FSL & 330' FWL
 Elevation 4136' GL, 4148' KI
 Spud Date: 9-20-73
 Compl. Date: 2-4-74



LOCATION

YOUR EXT. NO.

WATER ANALYSIS

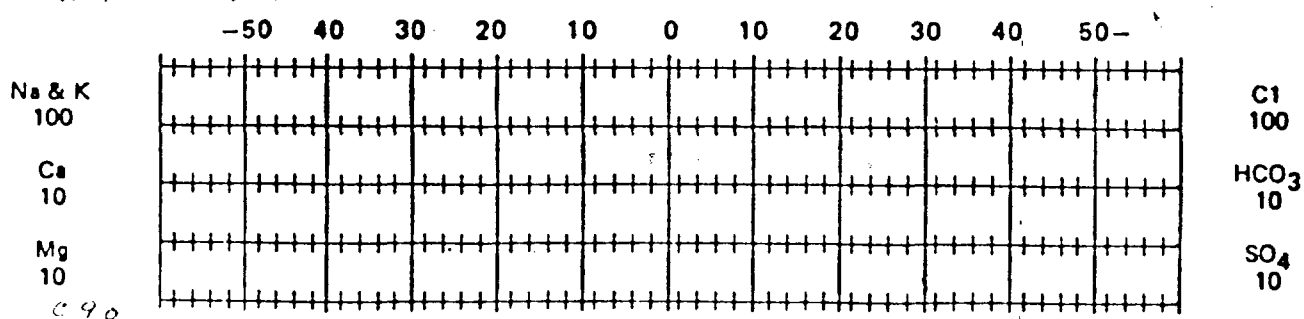
ANALYSIS NO.

GENERAL INFORMATION	
OPERATOR <i>Yates</i>	DATE SAMPLED
WELL <i>Hoover ADR S#1</i>	DATE RECEIVED <i>3-26-86</i>
FIELD	SUBMITTED BY <i>Ray Stoll</i>
FORMATION	WORKED BY <i>David Lakin</i>
COUNTY	SAMPLE DESCRIPTION:
STATE	
DEPTH	

PHYSICAL AND CHEMICAL DETERMINATIONS			
SPECIFIC GRAVITY	1.220 ¹	AT 72 °F	TOTAL DISSOLVED SOLIDS _____ PPM
pH	6.5		RESISTIVITY 0.05 at 72 PPM
IRON	Very Faint / Faint		SULFATE ^{→ 5.036 @ 100°} 2500 PPM
HYDROGEN SULFIDE	NONE		BICARBONATE ⁶ 366 PPM
HARDNESS ⁸⁰	80000		CHLORIDE ^{9.0} 180000 PPM
CALCIUM ^{2.0}	8006		SODIUM CHLORIDE 296100 PPM
MAGNESIUM ⁶⁰	14580	PPM	SODIUM _____ PPM
SODIUM & POTASSIUM		PPM	POTASSIUM - 0 - PPM
PHOSPHATE			0.7 KCL

REMARKS:

for Stiff type plot (in meq./l.)



HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W236 & W237-86

To Mr. Harvey AppleDate April 21, 1986Yates Petroleum Corporation207 South Fourth StreetArtesia, NM 88210

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

HOT TODDY #1Fresh Water Well
UNIT F Sec 12, T. 17S, R. 33E.Resistivity 0.065 @ 68° 10+ @ 68°Specific Gravity 1.10 1.001pH 6.8 7.0Calcium (Ca) 7,992 42 *MPLMagnesium (Mg) 1,348 76Chlorides (Cl) 86,000 200Sulfates (SO₄) Heavy NilBicarbonates (HCO₃) 153 183Soluble Iron (Fe) Nil Nil

Remarks:

*Milligrams per liter

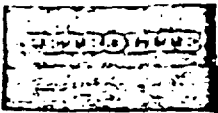
Rocky Chambers
Respectfully submitted,

Analyst: Rocky Chambers - Field Engineer
cc:

HALLIBURTON COMPANY

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.



WATER ANALYSIS REPORT

COMPANY YATES PETROLEUM CORP. ADDRESS _____ DATE: 3-20-86
SOURCE VACUUM NORTH # 1 DATE SAMPLED 3-19-86 ANALYSIS NO. _____
Analysis Mg/L *Meq/L

1. pH	6.0			
2. H ₂ S (Qualitative)	5 ppm			
3. Specific Gravity	1.10			
4. Dissolved Solids		96,772		
5. Suspended Solids		-		
6. Phenolphthalein Alkalinity (CaCO ₃)		-		
7. Methyl Orange Alkalinity (CaCO ₃)		200		
8. Bicarbonate (HCO ₃)		244	÷ 61	4 HCO ₃
9. Chlorides (Cl)		61,334	÷ 35.5	1,728 Cl
10. Sulfates (SO ₄)		500	÷ 48	10 SO ₄
11. Calcium (Ca)		16,800	÷ 20	840 Ca
12. Magnesium (Mg)		3,159	÷ 12.2	259 Mg
13. Total Hardness (CaCO ₃)		55,000		
14. Total Iron (Fe)		80 ppm		
15. Barium (Qualitative)				
16. Strontium				

*Milli equivalents per liter

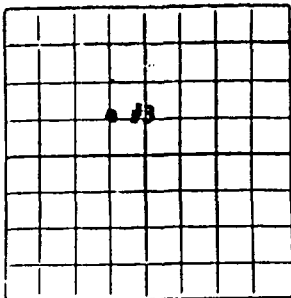
PROBABLE MINERAL COMPOSITION

840	Ca	←	HCO ₃	4	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
259	Mg	←	SO ₄	10	Ca (HCO ₃) ₂	81.04		4		324
643	Na	←	Cl	1728	Ca SO ₄	68.07		10		681
					Ca Cl ₂	55.50		826		45,843
					Mg (HCO ₃) ₂	73.17		0		0
					Mg SO ₄	60.19		0		0
					Mg Cl ₂	47.62		259		12,334
					Na HCO ₃	84.00		0		0
					Na ₂ SO ₄	71.03		0		0
					Na Cl	58.46		643		37,590

Saturation Values Distilled Water 20°C
Ca CO₃ 13 Mg/L
Ca SO₄ • 2H₂O 2,090 Mg/L
Mg CO₃ 103 Mg/L

REMARKS _____

Respectfully submitted
PETROLITE CORP.



NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Sinclair Oil & Gas Company
(Company or Operator)

State 197
(Lease)

Well No. 3, in SE $\frac{1}{4}$ of NW $\frac{1}{4}$, of Sec. 6, T. 17S, R. 34E, NMPM.
Undesignated Pool, Lee County.
Well is 1980 feet from North line and 1762.5 feet from West line
of Section 6. If State Land the Oil and Gas Lease No. is B-5659
Drilling Commenced 3:00 PM 3-19, 1957 Drilling was Completed 4-19, 1957
Name of Drilling Contractor Cackel Drilling Company, Inc.
Address Fort Worth, Texas
Elevation above sea level at Top of Tubing Head 4130' The information given is to be kept confidential until
19

OIL SANDS OR ZONES

No. 1, from None to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
No. 2, from _____ to _____ feet
No. 3, from _____ to _____ feet
No. 4, from _____ to _____ feet

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SMOKE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13-3/8"	35.6#	N	304'				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2"	13-3/8"	307'	350	R-J Service Inc.		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

DRY HOLE - PLUGGED AND ABANDONED

Result of Production Stimulation

Orig & 4 cc: OCC

cc: State Land Office

cc: FHE, HFD, File

Dents Cleaned Out

1. OED OF DRILL-STEM AND SPECIAL TES

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from Surface feet to 5050 feet, and from _____ feet to _____ feet.
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

PRODUCTION

Put to Producing Plugged & Abandoned, 19____.

OIL WELL: The production during the first 24 hours was Dry Hole barrels of liquid of which _____% was
was oil; _____% was emulsion; _____% water; and _____% was sediment. A.P.I.
Gravity _____.

GAS WELL: The production during the first 24 hours was _____ M.C.F. plus _____ barrels of
liquid Hydrocarbon. Shut in Pressure _____ lbs.

Length of Time Shut in _____.

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy.	1507		T. Devonian		T. Ojo Alamo
T. Salt	1620		T. Silurian		T. Kirtland-Fruitland
B. Salt			T. Montoya		T. Farmington
T. Yates	2805		T. Simpson		T. Pictured Cliffs
T. 7 Rivers	3095		T. McKee		T. Menefee
T. Queen	3751		T. Ellenburger		T. Point Lookout
T. Grayburg			T. Gr. Wash		T. Mancos
T. San Andres	4560		T. Granite		T. Dakota
T. Glorieta			T.		T. Morrison
T. Drinkard			T.		T. Penn.
T. Tubbs			T.		T.
T. Abo			T.		T.
T. Penn.			T.		T.
T. Miss.			T.		T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	312	312	Sand & Red Bed				
312	1171	859	Red Bed				
1171	1597	426	Red Bed & Anhydrite				
1597	2754	1157	Anhydrite & Salt				
2754	2857	103	Anhydrite, Salt & Gypsum				
2857	3190	633	Anhydrite & Gypsum				
3190	3542	52	Anhydrite & Lime				
3542	5050	1508	Lime				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far
as can be determined from available records.

C.C. Salter 5-6-57

Company or Operator Sinclair Oil & Gas Company Address 520 East Broadway Hobbs, N.M.
Name C.C. Salter Position or Title District Superintendent

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	State ☒ Fee ☐
5. State Oil & Gas Lease No.	B-5659

10. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

DRY ☐

OTHER

b. TYPE OF COMPLETION

NEW WELL ☐

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

OTHER

P & A

2. Name of Operator

H. L. Brown, Jr.

3. Address of Operator

309 Midland Tower, Midland, Texas 79701

4. Location of Well

UNIT LETTER I LOCATED 2310' FEET FROM THE South LINE AND 860' FEET FROM

THE East LINE OF SEC. 6 TWP. 17 S RGE. 34 E NMPM

7. Unit Agreement Name

8. Farm or Lease Name
State "B"

9. Well No.
1

10. Field and Pool, or Wildcat
Vacuum Grayburg SanAnd

12. County
Lea

15. Date Spudded 11-22-71 16. Date T.D. Reached 1-2-72 17. Date Compl. (Ready to Prod.) 11-15-73 18. Elevations (DF, RKB, RT, GR, etc.) 4139' KB 19. Elev. Casinghead 4122'

20. Total Depth 11,065' 21. Plug Back T.D. 4657' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 0 - TD Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4643' - 4651' San Andres

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run

GRN, ML

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42#	345'	17-1/2"	400 SXS	None
8-5/8"	24# & 32#	4,665'	11"	250' SXS	1,200'
4-1/2"	11.60#	11,065'	7-5/8"	300 SXS	5,378'

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	4516'	4417'

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

4643' - 4651' with 16 3/8" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4643' - 4651'	1000 gallons of 20% Unsoil
	Fraced with 12,000 gallons
	3% acid and 10,000# sand.

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in)

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Jack R. McGraw Jack R. McGraw Drlg & Prod. Manager

DATE 3-8-74

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AND OFFICE	
PERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
B-5659

TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF. RESVR. ☒ OTHER ☐

7. Unit Agreement Name
8. Farm or Lease Name
State "B"
9. Well No.
1
10. Field and Pool, or Wildcat
Vacuum Grayburg San An

Name of Operator
H. L. Brown, Jr.
Address of Operator
309 Midland Tower, Midland, Texas 79701
Location of Well

IT LETTER I
LOCATED 2310'
FEET FROM THE South
LINE AND 860
FEET FROM
East
LINE OF SEC. 6
TWP. 17S
RGE. 34E
NMPM

12. County
Lea

Date Spudded
11-22-71
16. Date T.D. Reached
1-2-72
17. Date Compl. (Ready to Prod.)
11-15-73
18. Elevations (DF, RKB, RT, GR, etc.)
4139' KB
19. Elev. Casinghead
4122'

Total Depth
11,065'
21. Plug Back T.D.
4657'
22. If Multiple Compl., How Many
23. Intervals Drilled By
Rotary Tools
0 - TD
Cable Tools

Producing Interval(s), of this completion - Top, Bottom, Name
4643' - 4651' San Andres

25. Was Directional Survey Made
No

Type Electric and Other Logs Run
GRN, ML
27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42#	345'	17-1/2"	400 SXS	
8-5/8"	24# & 32#	4665'	11"	250 SXS	
4-1/2"	11.60#	11,065'	7-5/8"	300 SXS	5378'

LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	4531'	

Perforation Record (Interval, size and number)
4643' - 4651' with 16 3/8" holes
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL
4643' - 4651'
AMOUNT AND KIND MATERIAL USED
12,000 gallons 3% acid and 10,000# sand.

PRODUCTION							
First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)	
12-3-73	Pump					Producing	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
12-6-73	24	-----	→	5-1/2	TSTM	0	----
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
		→	5-1/2	TSTM	0	34	

Disposition of Gas (Sold, used for fuel, vented, etc.)
Connected to Phillips
Test Witnessed By
Harold W. Dumas

List of Attachments
C-104, C-103, C-126, & cementing affidavit
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED B. D. Baker	TITLE Petroleum Engineer	DATE 12-18-73
--------------------	--------------------------	---------------

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LAND OFFICE	
OPERATOR	

Form C-103
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECCOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	State ☒ Fee ☐
5. State Oil & Gas Lease No.	B-5659

1a. TYPE OF WELL						7. Unit Agreement Name									
b. TYPE OF COMPLETION						8. Farm or Lease Name									
OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER ☐						State "B"									
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Plug & Abandon						9. Well No.									
2. Name of Operator						10. Field and Pool, or Wildcat									
H. L. Brown, Jr.						NW Vacuum Wolfcamp									
3. Address of Operator						12. County									
309 Midland Tower, Midland, Texas 79701						Lea									
4. Location of Well															
UNIT LETTER M LOCATED 330 FEET FROM THE West LINE AND 990 FEET FROM THE South LINE OF SEC. 6 TWP. 17 S RGE. 34 E NMPM															
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)		19. Elev. Casinghead							
9-20-73		10-31-73				4135' GL		4136'							
20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By		Rotary Tools Cable Tools							
11,120'		4650'				0 - TD									
24. Producing Interval(s), of this completion - Top, Bottom, Name								25. Was Directional Survey Made							
None								No							
26. Type Electric and Other Logs Run								27. Was Well Cored							
Compensated Neutron Log, DUAL Induction Laterolog								No							
28. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
11-3/4"		42#		387'		17-1/2"		400 sxs Class "C"		None					
8-5/8"		24# & 32#		4700'		11"		250 sxs Class "C"		1245'					
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		PACKER SET					
31. Perforation Record (Interval, size and number)						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED							
33. PRODUCTION															
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)						Well Status (Prod. or Shut-in)							
Date of Test		Hours Tested		Choke Size		Prod'n. For Test Period		Oil - Bbl.		Gas - MCF		Water - Bbl.		Gas - Oil Ratio	
Flow Tubing Press.		Casing Pressure		Calculated 24-Hour Rate		Oil - Bbl.		Gas - MCF		Water - Bbl.		Oil Gravity - API (Corr.)			
34. Disposition of Gas (Sold, used for fuel, vented, etc.)										Test Witnessed By					
35. List of Attachments															
Deviation Record, Form C-103, Logs															
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.															
SIGNED Jack R. McGraw TITLE Drilling & Prod. Manager DATE March 13, 1974															

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy 1535 (+2613)	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
T. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2795 (+1353)	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3770 (+372)	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4573 (-425)	T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Glorieta 6007 (-1859)	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinberry	T. Gr. Wash	T. Morrison	T.
T. Tubb 7343 (-3195)	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolicamp 9836 (-5688)	T. NW Vacuum Wolfvamp	T. Chinle	T.
T. Penn.	T. 10,828 (-6680)	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	453	453	Redbeds				
453	2400	1947	Anhydrite & salt				
2400	4522	2122	Anhydrite				
4522	6026	1504	Lime				
6026	7059	1033	Lime & shale				
7059	7282	223	Lime & sand				
7282	7560	278	Lime				
7560	9387	1827	Lime & shale				
9387	9680	293	Lime				
9680	9938	258	Lime & shale				
9938	10145	207	Lime				
10145	10636	491	Lime & shale				
10636	10961	325	Lime				
10961	11000	39	Dolomite				
11000	11120	120	Lime				

PS Form 3811, July 1983

DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.

2. ☐ Restricted Delivery.

3. Article Addressed to:

Williams & Son Cattle Co.
% Billy Williams
P.O. Box 30
Maljamar, NM 88264

4. Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P241345561

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (*ONLY if requested and fee paid*)

State "B" #2 & State 197 #3 SWD

DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.

2. ☐ Restricted Delivery.

3. Article Addressed to:

Amoco Production Co.
ATTN: C.L. Raper
P.O. Box 3092
Houston, TX 77253

4. Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P241345559

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (*ONLY if requested and fee paid*)

State "B" #2 & State 197 #3 SWD

PS Form 3811, July 1983

● SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.

2. ☐ Restricted Delivery.

3. Article Addressed to:

Tenneco Oil Co.
7990 IH IO West
San Antonio, TX 78230

ATTN: Rex Bourland

4. Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P241345558

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (*ONLY if requested and fee paid*)

State "B" #2 & State 197 #3 SWD

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.

2. ☐ Restricted Delivery.

3. Article Addressed to:

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

4. Type of Service:
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P241345560

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (*ONLY if requested and fee paid*)

State "B" #2 & State 197 #3 SWD

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
H.L. Brown, Jr.
P.O. 2237
Midland, TX 79702
ATTN: Peter Courtney

4. Type of Service: ☒ Registered ☐ Certified ☐ Express Mail	☐ Insured ☐ COD Article Number P241345562
--	--

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

State "B" #2 & State 197 #3 SWD

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Mobil Prod. Texas & NM
P.O. Box 633
Midland, TX 79702
ATTN: Kent M. Johnston

4. Type of Service: ☒ Registered ☐ Certified ☐ Express Mail	☐ Insured ☐ COD Article Number P241345553
--	--

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

State "B" #2 & State 197 #3 SWD

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Southern Union Expl. Co.
Suite 400
1217 Main St.
Dallas, TX 75202
ATTN: Craig Nielson

4. Type of Service: ☒ Registered ☐ Certified ☐ Express Mail	☐ Insured ☐ COD Article Number P241345552
--	--

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

State "B" #2 & State 197 #3 SWD

DOMESTIC RETURN RECEIPT

YATES BROTHERS
GEOLOGICAL FILE

ANNOTATED

SCHLUMBERGER WELL SURVEYING CORPORATION			
SIMULTANEOUS			
Gamma Ray-Neutron			
COUNTY	LEA	COMPANY	SINCLAIR OIL & GAS COMPANY
FIELD or LOCATION	SEAMAN AREA	WELL	STATE 197 #3
WELL	STATE 197 #3	FIELD	SEAMAN AREA
LOCATION	SEC. 6-175-34F	COUNTY	LEA
STATE	NEW MEXICO	LOCATION of Well	1980' f N&W/L
			GRN(LL MLL)
		Elevation: D.F.	
		K.B.	
		or G.L.	4130
		FILE NO.	
RUN NO.	1	Date	4-20-57
Depth Reference	GR 10' Below KB	First Reading	5048
Last Reading	48	Footage Measured	5000
Max. Depth Reached	5049	Bottom Driller	5050
Maximum Temp. °F.	100	Mud: Nature	Salt Gel
Density	11	Viscosity	41
Resistivity	0.8	to	84 °F.
Casing Size &	13 3/8	to	312
Weight	2	to	to
Open Hole	8 3/4	to	to
Fluid Level	2	to	to
Recording Speed (H/hr)	2000 & 4000	Sensitivity Tap	GR 300 (N) 400
Time Constant	2-1	Panel	GNP-C #258
Oper. Rig Time	3 Hrs.	Sonde Size & Type	3 5/8"
Truck No.	1762-Habbe	Observer	Mahanau
REMARKS: CALIBRATION	BACKGROUND CPS	TEST SOURCE CPS	GALV. INCREASE DIVISIONS
GAMMA RAY	80	450	100
NEUTRON	4	240	100
Sonde Decentralized			

Reproduced By
West Texas Electrical Log Service

Dallas 2, Texas

REFERENCE A6372D

COMPLETION RECORD

SPUD DATE

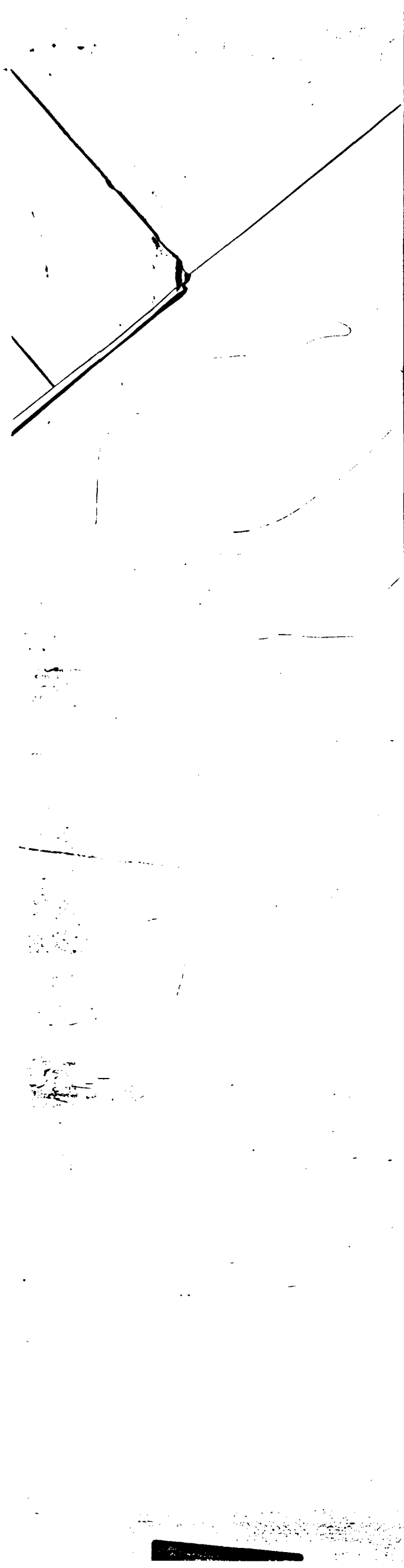
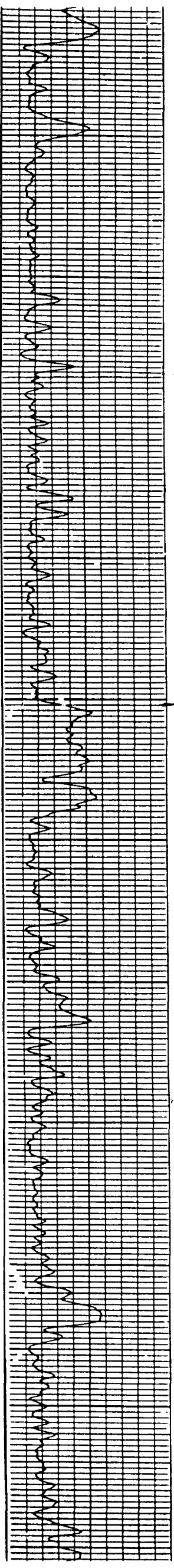
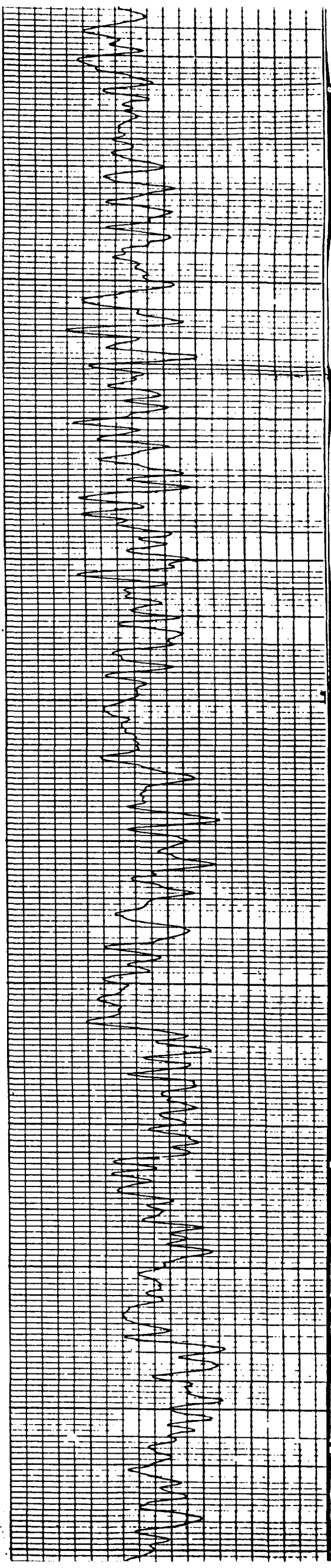
COMP DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

ACID FRAC SHOT



LEA COUNTY	NEW MEXICO	KEMNITZ-WOLFC FLD
Well: TENNESSEE GAS TRANS. CO. #1 State Phillips	Result: <u>OIL</u>	
Loc'n: 25-16S-33E; 660' FSL 1980' FSL of Sec. (Corrected from #1-a).	Unit I	
Spuds: 6-13-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; PB: 10,834' Casing: 13 3/8" 364', 8 5/8" 4536', 5 1/2" 10,980' Prod Zone: (Wolfe) T/Pay 10,772'; Prod thru perfs 160/ 10,772-829' IFF: 312 BOPD, 14/64" ch, Grav 42 Comp Info: Part 10,912-821', rec 9' blk ch & sh, 1' 11" & 22' part 10,838-835'; A/300 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 10' & 20', rec 20' of 10' oil below sub, FP 2370-3520', SIP 31123/45 min; Part 84/10,838-835' & 150/10,866-898'; send; Part 160/10,772-804' & 90/10,811-829'; A/3000 gals. Tops: Not available		
Date: 4-16-63	Card No.: 23	RM es

LEA COUNTY	NEW MEXICO	KEMNITZ-WOLFC FLD
Well: TENNESSEE GAS TRANS. CO. #1 State Phillips	Result: <u>OIL</u>	
Loc'n: 25-16S-33E; 1980' FSL 660' FSL Sec	Unit I	
Spuds: 6-13-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; PB: 10,834' Casing: 13 3/8" 364'/400 sz, 8 5/8" 4536'/1300 sz, 5 1/2" 10,980'/270 sz Prod Zone: T/Pay 10,772'; Prod thru perfs 10,772-10,898' IFF: 312 BOPD thru 14/64" ch, Grav 42 Comp Info: Part 160/10,772-804', 90/10,811-829', 84/10,838- 853', 150/10,866-898'; A/3000 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 BOWMAN, rec below sub 20' SW & 30' oil, FP 2370-3520', SIP 31123/45 min Tops: Not available		
Date: 10-3-57	Card No.: 29	RM es

LEA COUNTY	NEW MEXICO	KEMNITZ-WOLFC FLD
Well: PHILLIPS PET. CO. #3 New Mexico "A"	Result: <u>OIL</u>	
Loc'n: Sec 25-16S-33E, 1983' FSL Sec	Unit J	
Spuds: 12-4-60; Comp: 1-26-61; Elev: 4162' DF; TD: 10,970' Casing: 13 3/8" 374'/350 sz, 8 5/8" 4530'/375 sz, 5 1/2" 10,869/300 sz Prod Zone: T/Pay 10,757, Prod thru perfs 10,757-795' IFF: 400 BOPD thru 24/64" ch, grav 40, GOR not reported Comp Info: A/1,000 gals Loop (21) Yates 2748', Queen 3675', San And 4480', Glor 5932', Tubb 7188', Abo 7945', Wolfe 9604'		
Date: 2-22-61	Card No.: 14	NM ljb

LEA COUNTY NEW MEXICO KENITZ-WOLFC FLD
Well: PHILLIPS PETR. CO. #1-A New Mexico Result: OIL
Loc'n: 25-16S-33E; 1983' FSL 2313' FWL of Sec.
Unit K
Spud: 3-24-58; Comp: 6-20-58; Elev: 4158' DF; TD: 11,537';
Casing: 13 3/8" 374' / 400 sx, 9 5/8" 4547' / 1167 sx, 5 1/2"
11,579' / 1061 sx
Prod Zone: T/Pay 10,720'; Prod thru perfs 10,720-10,808'
IPP: 482 BOPD thru 3/8" ch, Grav 38, GOR 1392-1, CP pkr,
CP 310%
Comp Info: Perf 28/10,720-727' & -8/10,796-808' DST 10,700-
844', op 3 hrs, gas in 82 min, rev out WB, 2952', oil & 210'
HC&GCM, FP 2240-2500', SIP 3165-2515' / 15 min; DST 11,400-
343', op 90 min, rec 915' WB & 842' HC&GCM, FP 1240-1450',
SIP 4740-4265' / 30 min; Perf 40/10,822-834'; swbd 44 BLO &
52 BSW/10 hrs; sqzd w/75 sx; C/Company Tools;
Tops: Abby 1490', Yates 2740', San Andres 4472', Abo 7930',
Wolfcamp 9600'.

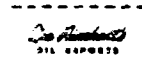
LEA COUNTY NEW MEXICO KENITZ
Well: PHILLIPS PETROLEUM CO. 2 New Mexico "A" OWDD Result: OIL DO
Loc'n: 10 mi NW/Buckeye; 661' FSL, 1983' FEL of Sec 25-16S-33E (Orig.
D&A 8-27-58, OTD 11,610) Unit O
Spud: 11-15-82; Comp: 3-19-84; Elev: 4153' Grd, 4177' DF; TD: 13,485'
Misc: PB: 12,675'
Casing: 13-3/8" 395' / 500sx; 8-5/8" 4552' / 1110sx; 5-1/2" 13,484' /
1750sx; 2-7/8" 10,923'
Prod. Zone: (Wolfc) T/Pay, Prod thru Perfs 10,839-11,556'
IPP: 16 BOPD + 29 BW; GOR 1683; Grav 38.9
Comp Info: ran GRL, CNL, DLL, CALP, FRXL, FDC, CCL logs, No Cores
or DST's, ran 5 1/2" Csg; Perf (Morrow) 13,282-13,290', S/dry, CIBP
@ 13,167', Perf (Atoka) 12,835-12,842', A/1000 gals, S/10 BW/10
hrs, A/3000 gals, S/105 BW/14 hrs, Ret @ 12,675, Sqzd 75 sx;
Perf (L/Wolfc) 10,839-11,556' w/163 shots, A/27,200 gals, C/
Kenai #23
Tops EL: Strawn 12,252', Atoka 12,419', Atoka Clastics 12,654',
Morrow 12,928', Miss 13,416'
API No: 30-025-01269 Replaces card #35 dated 4-27-83
to show as Suspended Completion
Petroroleum Information* Date 5-16-84 Card No 4P 1P
CORPORATION
A Subsidiary of A.C. Nielsen Company

LEA COUNTY NEW MEXICO KENITZ-WOLFC
Well: PHILLIPS PETR. CO. #2-A New Mexico Result: OIL
Loc'n: 25-16S-33E, 661' FSL 1980' FEL of Sec.
Unit O
Spud: 6-12-58, Comp: 8-27-58, Elev: 4164' DF; TD: 11,610'
Casing: 13-3/8" 500 sx, 8-5/8" 4552' / 1160 sx
Prod Zone: None
IPP: None
Comp Info: DST 10641-835', op 30 min, rec 2252' WB, 3 gals oil
& 4120' SG&GCM, FP 1070-800', SIP 1715' / 15 min; DST 11,525-
550', op 3 hrs, rec 3134' WB, 722' GCSW, & 30' GCM, FP 1440-
1500', SIP 5350-4045' / 15 min; DST 10,870-11,005', op 90 min,
rec 2358' WB, 5526' SGCM & 644' GCSW, FP 1225-1585', SIP
2975' / 15 min; C/Company Tools
Tops: (ZL) Abby 1502', Yates 2756', Queen 3997', San And 4503',
Glor 5950', Tubb 7206', Abo 7966', Wolfc 9644', K Pay 10,813',
Seaman 11,536'.

LEA COUNTY NEW MEXICO KENITZ-WOLFC
Date: 9-17-58 Card No: 16 NM eb

LEA COUNTY NEW MEXICO WILCOX
 Well: SHELL OIL CO, 91-HT State Unit P Town: NEW CL ESC.
 Loc'n: 14 mi E/Tatum; NW/part County; Sec 25-16S-33E, 660' FEEELa Sec; 1-1/2 mi E-SZ/
 Hightower fld, separated by 9620' failure; 1 mi SW/depleted Penn producer.

Studs: 5-1-65; Comp: 8-13-65; Elev: 4234' DF; TD: 12,855'; WTD: 10,109'
 Casing: 13-3/8" 337'/300 sx; 9-5/8" 4142'/400 sx; 5-1/2" 10,333'/1100 sx
 Prod thro Penn 9848-9863'
 Comp: 115 BOPD, + 2 bbls SW, 14/64" ch, Grv 44.9, GOR 1056-1, TP 11009
 Comp: 115 BOPD, + 2 bbls SW, 14/64" ch, Grv 44.9, GOR 1056-1, TP 11009
 11, NS, 5' sh, 28' dense li; DST 9853-9905', op 2 hrs & 6 mins, GTS 3 mins, OTS 34
 mins, F/to pits 36 mins, F/53 RO/1 hr & 30 mins, 1/2" ch, Grv 44.9, GOR 1056-1, TP 11009
 1140-1, rev cut 13.75 EO, FP 965-2024#, ISP 36323/1 hr & 30 mins, FSP 35074/2
 hrs: DST 10,185-264' (GP), op 27 mins, oir leaked, rec 2150' HGCM, FP 529-483, ISP
 38044/1-1/2 hrs, FSP failed: DST 12,523-241', op 2 hrs & 3 mins, rec 150' DMG
 2815 dry suit wt, FP 279-10209, ISP 38024/1-1/2 hrs, FSP 38484/1-1/2 hrs: Perf
 5848-9863', A/300 gain; F/ 253 EO & 2 BSW/19 hrs & 15 mins 14/64" ch, C/Noble
 Drill Co.
 Tests: Li Yates 2747', Queen 3484', San And 4078', Abo 7640', Wolfe 9114', Wolfe E
 marker 9174', Bough "A" 9800', Miss li 11,950', Wdld 12,601', Silurian 12,645'



Date: 9-23-65

Card No.: 19 104 43

LEA COUNTY NEW MEXICO

ELK OIL CO. 1 Pennaol State Permit 33A 3

8 mi NE/Maljamar; 2130' FUL, 1980' TEL of Sec 35-16S-33E

Unit G

Spud: 2-29-84; Comp: 4-10-84; Elev: 4169' Grd; TD: 11,750' Cisco

Casing: 13-3/8" 358' / 400sx; 8-5/8" 4460' / 2200sx

Comp 1850' van DI, CNL, MICL logs, No Corros or DST's, C/Mando

Tests 22: Rustler 1510', Yates 2315', Queen 3705', San And 4435',

Glorieta 5930', Abo 7980', Wolfe 11,110', Cisco 11,558

1. 1. 33-025-28630

Petroleum Information*

CORPORATION

A Subsidiary of A.C. Nielsen Company

Date 5-16-84 Card No 15 15

Co. LEA ✓ POOL KEMNITZ STATE N.M. KRÖENLEIN 200-57	
WOLPCAMP	
COMPANY Tennessee Gas Trans. - #4 - State-A.A. Elev. 4150 D	
Loc. 1980' FNL & 660' FWL Unit E Kemnitz "A" U.S.V.D.R.	
Sec. 30, T.16-S, R.34-E	
10,850'	

ACID OR SHOT	CASING RECORD	TOPS
Natural	13 - 331-400	Glor. 5955
Perf. 10710-822	8 - 4550-1850	C.P. 6573
	5 - 10891-268	Abo 7964
		W.C. 9645
		L. W.C. 10281
		Queen +424 3670
		SA -321 4475
SPD. 7-16-57 COMP. 9-19-57		
I. P. F. 376 BO/24 hrs., 20/64" ch.		
GR. 40.3 GOR 902 TP 500 CP pk.		
REMARKS		
10811		
4150		
-6672		
	CONT'D. PAGE 2.	
		TP 10,710
		TD 10,893 L., sh.
		PBO 10,848

K-200-57

LEA, N.M., 30-16-34 PAGE 2.

Tennessee Gas Transmission - #4 - State A.A. Kemnitz "A"

DST 10803-893 440' WB; open 1 hr. 52 mins., gas 13 mins.; WB 33 mins., mud 39 mins.; oil 42 mins., to pits 10 mins., flow 13 1/2 BO/ 1 hr.; Gr. 40.3; GOR 1650; rev. out 35 BO; rec. 15' oil below sub, all. show sul. wtr.; FP 1135-2625; SIP 3320/30".

FB 10848

Perf. 56/10808-822; flow 104 BO/7 hrs., 28/64" ch.; TP 150#.

Perf. 28/10710-716

Perf. 120/10726-56

Perf. 24/10770-76

Perf. 40/10786-96

Co. LEA	✓ POOL KENNITZ-	STATE N.M.	KROENLEIN 200-59
WOLFCAMP			
COMPANY Tennessee Gas Trans. Co. - #6 - State		Elev. 4139	
LOC. 1980' FSL & 660' FEL Unit I		A.A. Kennitz "A"	
Sec. 30, T.16-S, R.34-E			
10,900'			

ACID OR SHOT	CASING RECORD	Yates	TOPS
Perf. 56/10288-302	13 3/8- 358- 400	Queen	2296
	8 5/8- 4548-2100	Penrose	3688
	5 1/2- 10536-470	S.A.	3997
		Glor.	4516
		C.P.	5990
		Tubb	6596
		Abo	7209
		W.C.	7974
		Woodf.	9723
			10324
			10,288
			10,970
			10,473

SPO. 10-8-58 COMP. 2-2-59

I. P. P. 68 BOPD + 62 BXW

GR. 39. GOR - TP CP

REMARKS Perf. 10288-302 swb. 90% LW & mud; sqz. w/100 sx; Perf. 35/10288-295; wash w/750 acid, CONT'D. PAGE 2.

LEA, N.M. 30-16-34

Tennessee Gas Trans. Co. - #6 - State A.A. Kennitz "A".

swb. 42 BO & 96 BXW/10 hrs.

DST 10850-927 op. 2 hrs. 27 mins. rec. 510' HO&GCM, 60' XW; FP 115-215; SIP 520/1 hr.

DST 10236-534 op. 2 hrs. 51 mins. gas 8 mins. rev. out 1210' HG&SOCH; 5060' SMCoil, 1890' XW; FP 880-2615; SIP 3135/86 mins.

LEA COUNTY NEW MEXICO S. KENNITZ FIELDS

Well: TENNECO OIL CO. 2 State "LF-30" Result: GAS DG

Locn: 10mi NE/Maljamar, Sec 30-16S-34E-2310 FSL-1480 FWL Sec Unit 4

Spud: 6-22-81, Comp: 10-12-81, Elev: 4143' GL, TD: 13,350 (MSSP) PB: 13,304

Casing: 13 3/8" 391' / 875sx, 9 5/8" 4518' / 598sx, 5 1/2" 13,350' / 1525 sx, 2 7/8" 12,990

Prod Zone: (MRRW) T/Pay 13,250', Prod thru Perfs 13,250-266'

IPCAOF: 12,110 MCFGPD, Gty (Gas) .6751, Cond 50.6, SIWHP 4595, SIBHP 6981

Comp Info: Perf (MRRW) 13,250-266, (MRRW) 4PT: F/1088 MCFGPD, 6/64ch, 60mins, TP4541, F/1705 MCFGPD, 8/64ch, 60mins, TP4500, F/2524 MCFGPD 12/64ch, 60mins, TP4414, F/3121 MCFGPD, 16.5/64 ch, 60mins, TP4320 C/TOT#3

Tops: (EL) SADR 4510', Glorieta 5970' / Paddock 6590', Tubb 7200', Abo 7965', wolfcamp 9670', Strawn 12,118', Atoka 12,387', Morrow 13,272', Mississippian 1,854

API No: 30-025-27458



Petroroleum Information

CORPORATION
A Subsidiary of A.C. Hulse Company

Date: 12-9-81

Card No.: 28 mja

WOLFCAMP
COMPANY Tennessee Gas Transmission Co. - #5 - **ELEV. 4152 DF**
State AA Kemnitz "A"
LOC. 1980' FSL & FWL Unit K
Sec. 30, T.16-S, R. 34-E
10.850'.

ACID OR SHOT	CASING RECORD	Any.	TOPS
Perf. 50/10848-858	13 - 361-400	Yates	1515
A-250/10798-808	8 - 4544-1700	Queen	2789
	5 - 10948-340	Penrose	3680
		S.A.	3985
		Glor.	4504
		C.F.	5958
		Tubb	6589
		Abo	7201
			7968

S.D. 8-16-57 **COMP.** 11-14-57
I. P. P. 228 BO + 224 BXW/24 hrs.;
 22/64" ch.
GR. 40.9 GOR 1525 TP 700 **CP** pkr.
REMARKS TOPS CONT'D.: W.C. 9705; Lower
 W. C. 10309.
CONT'D. PAGE 2.

SEE "REMARKS"
TP 10,798
TD 10,950 L.
PSD 10,903

30-16-34 **K-200-57**
Page 2.
Tennessee Gas Transmission Co. - #5 - State AA Kemnitz A
FB 10,903'; A-1000 rec. 100' XW; sqz. w/50 sx
Perf. 40/10832-40; A-500; rec. XW; sqz. w/50 sx
Perf. 40/10818-26; A-500, rec. 100% XW; sqz. w/50 sx
Perf. 50/10798-808; A-500 swb. & flow 90 BO & 129 BXW/19
 hrs.; Dies. oil sqz. w/35 sx/10798-808,
A-250/10798-808; swb. & P. 130 BO & 70 BXW/13 hrs.,
 22/64" ch.; TP 450#.

COUNTY: Lea **POOL:** Kemnitz-Wolfcamp **State:** N.M.
COMPANY: Tennessee Gas Trans. Co. **A#5** AA Kemnitz
LOC: 30-16S-34E **Elev:** 4152 I
 4141 c
 1980 F S+W/L

Casing Record	TOPS
Csg. 4544	QUEEN 3680
	T.D. 10948

LEA COUNTY NEW MEXICO LEA CO UNDESIGNATED FIELD
 Well: MOBIL PRODUCING TX & NM 1 State "31" Result: GAS DG
 Loc'n: 9 mi NE/Maljamar; Sec 31-16S-34E Sur; 660' FNL 1980' FWL of
 Sec Unit C

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Spud: 3-14-84; Comp: 5-20-85; Elev: 4120' Grd; TD: 13,375' MSSP;
 PB: 12,000'
 Casing: 13-3/8" 350' / 400sx; 9-5/8" 4850' / 3200sx; 5-1/2" lnr-4610-
 13,374' / 2400sx; 2-3/8" 11,365'
 Prod Zone: (Mississippian) Prod thru Perfs 11,530-550'; SHUT
 IN GAS WELL
 Comp Info: No Cores or DST's; Ran CDL, CNL, GRL, BHC, ACSL,
 DLL, MLAT, DIPM, CCL, CBND; Perf (Morrow) 13,292-304',
 13,308-322' w/1 SPF; FARO 705-432 MCFGPD in 1 hr thru
 18/64" chk, TP 720-520; Cmt Ret @ 13,306'; Sqzd/25 sx;
 Perf (Morrow) 13,292-304' w/13 shots; A/1000 gals (7 1/2%) +
 CO2 F/18 BNO + 130 BFW/24 hrs thru 32/64" chk, TP 220; FARO
 650 MCFGPD; Cmt Ret @ 13,306'; Sqzd/25 sx; Swbd 35 BLW/2 hrs
 30 mins; Perf (Morrow) 13,292-304' w/1 SPF; A/1500 gals CO2;



Petroleum Information® (Cont'd on Card 36-A)

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36

LEA COUNTY NEW MEXICO LEA CO UNDESIGNATED FIELD
 Well: MOBIL PRODUCING TX & NM 1 State "31" Result: GAS DG
 Loc'n: 9 mi NE/Maljamar; Sec 31-16S-34E Sur; 660' FNL 1980' FWL of
 Sec

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(Cont'd from Card 36)

Comp Info: Cont'd; A/1000 gals (MFLO) + 1000 gals CO2; Swbd 6
 BLW w/SO in 1 hr; F/10 BSW/24 hrs thru 11/64" chk, F/5 BNO/24
 hrs thru 11/64" chk, F/2 BO + 5 BW/3 days; F/4 BO + 28
 BSW/72 hrs thru 1/2" chk, TP 55; PB to 12,000; Perf (Canyon)
 11,530-532', 11,540-550' w/2 SPF; ATT Treat/2200 gals CO2,
 could not pump in; Perf (Canyon) 11,530-532', 11,540-550'
 w/2 SPF; A/500 gals (15% DINE FE HCL); A/3840 gals CO2;
 Swbd 3 BO + 49 BW/9 hrs; A/3000 gals (15% NEA) + 98,000 SCF
 N2; Swbd 2 BO + 40 BW/9 hrs; Swbd 1 BO + 14 BW/4 hrs;
 Rig Rel 5-16-84 C/Hondo Drlg
 (Cont'd on Card 36-B)



Petroleum Information®

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36-A

LEA COUNTY NEW MEXICO LEA CO UNDESIGNATED FIELD
 Well: MOBIL PRODUCING TX & NM 1 State "31" Result: GAS DG
 Loc'n: 9 mi NE/Maljamar; Sec 31-16S-34E Sur; 660' FNL 1980' FWL of
 Sec

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(Cont'd from Card 36-A)

Tops: (EL) Wolfcamp 9563', Cisco (Bough C) 11,031', Canyon
 11,417', Strawn 12,078', Atoka 12,289', Morrow 12,759',
 Mississippian 13,195'
 API No: 30-025-28584



Petroleum Information®

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36-B

LEA COUNTY NEW MEXICO KEMNITZ S FIELD

Well: TENNECO OIL CO., 1 State "LF-32" Result: GAS DG
 Loc'n: 10 mi NE/Maljamar; Sec 32, T16S, R34E; 660' FNL, 660' FWL of Sec
 Unit D PB: 13, 318

Spud: 4-21-83; Comp: 7-29-83; Elev: 4120GL; TD: 13,400 Miss;
 Casing: 13-3/8" 402' / 425sx; 8-5/8" 4503' / 1625sx; 5 1/2" 13,400' /
 1050sx; 2-3/8" 12,562'

Prod Zone: (Atoka), Prod thru Perfs 12,649-12,670'
 IPCAOF: 1987 MCFGPD, dry, grav gas .6404, SIWHP 2240, SIBHP
 2372

Comp Info: rig rel 6-28-83; ran CNL, LDT, DILL, MSFL, NGT logs;
 Perf (Atoka) 12,649-12,670 w/4 SPF, A/3000gals; 4pt TEST: F/
 302 MCFGPD, 60 mins, TP 2080#; F/395 MCFGPD, 60 mins, TP
 2015#; F/777 MCFGPD, 60 mins, TP 1782#; F/1003 MCFGPD, 60
 mins, TP 1532#, Chk (NR); BHT 201 deg @ 12,660

Tops EL: Rustler 1545, Yates 2800, Queen 3720, SanAnd 4550,
 Glorieta 5990, Paddock 6635, Tubb 7250, Abo 8010, Wolfc 9750,
 Penn 11,070, Strawn 12,070, Atoka 12,290, Miss 13,200

API No: 30-025-28174

 Petroleum Information®
 CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 9-28-83 Card No.: 17 dm

LEA COUNTY NEW MEXICO VACUUM, N. FIELD

Well: MOBIL OIL CORP. 1 State "AD" Result: D&A D
 Loc'n: 10 mi NE/Maljamar; 1980' FNL 2125' FEL Sec 32-16S-34E; Unit G

Spud: 4-15-78; Comp: 6-18-78; Elev: 4105' Grd; TD: 13,200' Miss;
 Casing: 12-3/4" 355' / 450 sx; 8-5/8" 4852' / 2300 sx;
 Comp Info: DST (Atoka) 12,530-662', 3000' WB, op 1 hr 30 mins, Rec WB + 279'
 DM, ISIP 5783# / 1 hr, FP 1307-1350#, FSIP 5960# / 2 hrs, HP 7300-7300#, BHT
 150 degs; Ran DNL, DENL, CALP, DILL, ACSL; C/MGF Drlg #9.

Tops: (EL) B/Salt 1660', San Andres 4582', Glorieta 5996', Tubb 7279', Abo 8042',
 Wolfc 9800', Kemnitz 10,716', Strawn 11,993', Atoka 12,414', Morrow 12,712',
 Miss-Ches 13,070'

API No: 30-025-25867

 Petroleum Information®
 CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-16-78 Card No.: 20 bc

LEA, N.M.		POOL: WILDCAT STATE N.M. KROENLEIN	
COMPANY: Pennzoil Company - #1 - Gulf-State			
LOC. 660' FSL & FEL Unit P		ELEV 4125 KB	
Sec. 32, T.16-S, R.34-E		4109 GR	
14,500' RT-Dev.			
PAY STIMULATION		CABING	
PERF: 10189-734		13 3/8- 396- 450	
		9 5/8- 4668- 800	
		5 1/2- 11011-700	
SPD. 7-2-65		COMP. 12-30-65	
I.P. P. 216 EOPD			
GR. 40. GOR 811		TP CP	
TOPS CONT'D: Bend 12500; Miss.		IP 10,189 (Penn)	
13762; Woodf 14450; Dev. 14553.		TD 14,585	
CONT'D. PAGE 2.		PBD 10,800	
		TOPS LR 056908 E	
		Anhy. 1570	
		Yates 2846	
		Queen 3775	
		S.And 4625	
		Glor 6048	
		Tubb 7334	
		Abo 8050	
		W.C. 9856	
		Strn 12120	
		cont'd.	

LEA, N.M. P-32-16-34
 Pennzoil Co. #1 - Gulf-State PAGE 2.

DST 10172-202 op. 3 hrs., gas in 13 mins., at 200
 MCFGPD; rec. 2976' oil (Gr. 36); 120' OCM +
 30' wtr. cut mud; FP 69-652; ISIP 3818/1 hr.
 10 mins.; FSIP 3323/2 hrs. 5 mins.

DST 10210-274 op. 1 hr. 10 mins., rec. 60' SGCM +
 300' drlg. mud; FP 23-46; ISIP 93/1 hr.; FSIP
 279/1 hr.

DST 10707-720 op. 2 hrs. 15 mins., gas in 25 mins.,
 TSTM; rec. 240' oil (Gr. 42.4); 120' OCM; FP
 44-89; ISIP 4088/1 hr.; FSIP 4000/2 hrs.

DST 10801-821 op. 2 hrs., gas in 45 mins., rec.
 90' oil + 60' hvy. O&GCM; FP 44-89; ISIP 3469/1
 hr.; FSIP 3424/2 hrs.

DST 11520-657 op. 1 hr. 15 mins., rec. 3000' WB +
 50' very slt. GCM; FP 1332-1332; ISIP 1676/1
 hr.; FSIP 1590/1 hr.

CONT'D. PAGE 3.

LEA, N.M. P-32-16-34
 Pennzoil Company - #1 - Gulf-State PAGE 3.

DST 12209-308 op. 1 hr. 15 mins., rec. 40' drlg.
 mud; FP 581-1473; ISIP 1695/1 hr.; FSIP 1740/1
 hr.

DST 12332-476 op. 1 hr. 20 mins., rec. 3000' WB +
 50' GCM w/SSO; FP 1480-1480; ISIP 2432/1 hr.;
 FSIP 2345/1 hr.; ran logs/12865'

DST 13161-175 op. 4 hrs., gas in 20 mins. at 240
 MCFGPD decr. to 190 MCFGPD after 2 hrs. 15
 mins. & stabilize; rec. 270' gas & slt. cond.
 cut WB, 2711' GCWB + 60' GCM; FP 1390-1357;
 ISIP 6677/1 hr. 30 mins.; FSIP 6156/3 hrs.

DST 13178-246 pkr fail

DST 13230-355 op. 3 hrs. 15 mins., gas in 1 hr. 30
 mins. at 23-30 MCFGPD; rec. 3000' GCWB + 100'
 GCM; FP 1390-1390; ISIP 5993/1 hr. 30 mins.;
 FSIP 6970/2 hrs.

CONT'D. PAGE 4.

LEA, N.M.

P-32-16-34

Pennzoil Company - #1 - Gulf-State

PAGE 4.

DST # 14551-585 op. 1 hr. 30 mins.; rec. 5900' salt
 wtr.; FP 2960-5244; no ISIP; FSIP 5309/1 hr.
 Perf 2 SPF: 10821-824; 500 gal. acid/10821-824';
 swb. load; 1000 gal. acid/10821-824'; swb. 5
 BO + 5 BW/2 hrs. & swb. down; 2500 acid/10821-
 10824'; swb. back 71 BLW; 5000 acid/10821-824';
 swb. 100 BAW w/trace oil; PB 10,800'.
 Perf 1 SPI: 10724, 10726, 10732, 10734; 500 acid/
 10724-734'; swb. load & 8 BNO; 1000 acid/10724-
 10734'; swb. dry; 3000 acid/10724-734'; swb.
 32 BO&AW/undes. time; 10,000 acid/10724-734';
 F. 7 bbls. fluid/1 hr. (95% oil) & died.
 Perf 1 SPI: 10189, 10191, 10195, 10197; 500 acid/
 10189-197'; swb. 49 BLW/undes. time; 5000 gal.
 acid/10189-197'; swb. 139 BAW + 6 BNO/6 hrs.;
 15,000 acid/10189-197'. P. 216 BOPD

LEA		POOL WILDCAT		STATE N.M. KROENLEIN	
OWWO					
COMPANY Wilbanks & Rasmussen - #1 - L. C. Harris-State					
(fmly. Texas Gulf Prod. Co. - #1 - ELEV. 4159 DF.					
LOC. 1980' FNL & FWL Unit Fr. State "K")					
Sec. 1, T.17-S, R.33-E					
PAY STIMULATION		CASING		TOPS	
PERF:		old 13 3/8- 377- 400			
		" 9 5/8-4665- 430			
		" 5 1/2" L.-4538-			
		-5288-260			
		2 7/8-11733- 400			
SPD. re-1-31-65 COMP. 3-15-66					
I. P. Temp. Aband.					
GR. Set 2 7/8" 11733 w/400 sx; Perf TP					
11634-653; overall: 1500 gal. 0 TO 11,733 L., sh.					
acid/11634-653; F. 15 BO & died/11634-653; 10,000					
gal. acid/11634-653					

LEA		POOL WILDCAT		STATE N.M. KROENLEIN 614-58	
COMPANY Texas Gulf Prod. Co. - #1 - State "K" ELEV. 4159 DF					
LOC 1980' FNL & FWL					
Sec. 1, T.17-S, R.33-E					
11,200'					
ACID OR SHOT		CASING RECORD		TOPS	
		13 - 380-400		Anhy. 1520	
		9 -4665- 430		Yates 2773	
		5 L. -4538		Gryb. 4208	
		-5288- 260		S.A. 4540	
				Glor. 5957	
				C.P. 6643	
				Tubb 7293	
				Abo 8054	
				Kosmitz 10876	
				Seaman 11620	
SPD. 12-22-57 COMP. 4-9-58				TP 11,733 L., sh.	
I. P. F & A				5288	
GR. GOR TP CP					
REMARKS					
CONT'D. PAGE 2.					

LEA, N.M. 1-17-33 K-614-58
 Texas Gulf Prod. Co. - #1 - State "K".
 Core 1 3737-59 rec. 22': 2' red sand; 20' gry. sd.
 w/SSO.
 Core 2 3759-79 rec. 20': 1/2' gry. sand; 4 1/2' gray
 sand; 2' gray sand; 2' red sand; 2' anhy.; 1'
 red. shly. sd.; 8' anhy.
 Core 3 4408-4459 1/2 rec. 51 1/2': 6' sand; 42' sdy.
 dolo.; 3 1/2' sd. w/stn. odor.
 Core 4 4460-80 rec. 19 1/2' sdy. dolo.
 Core 5 4481-4531 rec. 50' sd. dolo. w/SSO.
 Core 6 4581-4631 rec. 50' sd. & dolo.
 Core 7 4631-81 rec. 50' sd. & dolo.
 DST 1 4865-4930 op. 1 hr. rec. 90' SGCM; FP 70-100;
 SIP 1420/30".
 DST 2 5170-5280 op. 30 mins. rec. 130' SGCM; FP 70-95;
 SIP 1628/30".
 DST 3 10383-468 op. 1 hr. rec. 690' HGCM, 120' XW; FP
 120-370; SIP 2380/30".
 CONT'D. PAGE 3.

LEA, N.M. 1-17-33.

K-614-58

PAGE 3.

Texas Gulf Prod. Co. - #1 - State "K"

Core 6 10819-56 rec. 37' lime shale. *units*

Core 9 10902-48 rec. 39' lime w/SSO in lower 5'.

Core 10 10949-11000 rec. 51' lime, shale.

Core 11 11640-658 rec. 9' lime, vert. frags. w/SSG.

Core 12 11658-680 rec. 19' lime vert. frags. w/SSG.

Core 13 11681-733 rec. 51 1/2' shale and lime.

DST 4 11625-733 op. 3 hrs. gas 5 mins. mud 1 hr. 15
mins.; mud cut dist. 1 1/2 hr.; rev. out 30 bbls.
Seam dist. 30' dist. below sub; PP 643-855; SIP
3738/30". (only 8' pore.)

TD 11,733 L., shale; PB 5290'.

Perf. 15/5186-90

Perf. 60/5196-5216

Perf. 112/5224-58; A-1000 rec. load, ES; reA/2500; rec.
load, ES; reA/10,000 did not rec. load; sub. 83
bbls. XW + 1 bbls. 10/20 hrs.

Co. LEA POOL WILDCAT STATE N.M. KROENLEIN 614-58
 COMPANY Texas Gulf Prod. Co. - #1 - State L. Elev 4163 DF
 Loc. 660' P3L & FEL Unit P
 Sec. 2, T.17-8, R. 33-E
 4800'

ACIO OR SHUT	CASING RECORD	TOPS
	13 - 388-450	Yates 2800 Queen 3730 S.A. 4534
SPD 1-10-58	COMP 3-24-58	
I. P. P & A		
GP. GOR TP CP		5270 L.
REMARKS		
CONT'D. PAGE 2.		

LEA, N.M. 2-17-33 K-614-58
 Texas Gulf Prod. Co. - #1 - State L. PAGE 2.
 Core 4402-53 rec. 50': 16' anhy. dolo.; 1 1/2' sdy. dolo.;
 5 1/2' sand w/bldg. oil; 2' sdy. dolo.; 25' xlyn.
 dolo.
 Core 4453-4505 rec. 51' dolo. sand w/80 4468-72'.
 Core 4505-55 rec. 50' dolo. sand w/very slight SO in
 top 5'.
 Core 4884-4960 rec. 76' dolo. w/S30; in lower 13'-water.
 Core 5175-5250 rec. 75' dolo. w/XN.

LEA COUNTYNEW MEXICOMALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO., 23 Phillips "E" State Result: OIL DO

Loc'n: 7 mi E/Maljamar; Sec 11-T17S-R33E; 990' FSL, 2310' FWL of Sec 11-17S-33E; (Orig Cmp 3-8-76 thru Grayb Perfs 4449-4551', OTD 4618', OBP 4574') Unit N

Spud: 5-13-83; Comp: 5-23-83; Elev: 4158 GL; TD: 4618 San Andres

Casing: 8-5/8" 388' / 400 sx; 4 1/2" 4618' / 300 sx; 2-3/8" 4610'

Prod Zone: (Grayburg-SanAnd), Prod thru Perfs 4449-4616'

IPP: 96 BOPD + 6 BW, GOR 1423, Grav 36.3

Comp Info: DO to 4618; Perf (San Andres) 4604-4616 w/2 SPF, S/21 BW/4 hrs, A/1500 gals, S/18 BO + 4 BW/2 hrs, A/3000 gals

Tops EL: NR

API No: 30-025-25229

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Date: 12-14-83 Card No.: 12 dm

LEA COUNTYNEW MEXICOMALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO, 23 Phillips "E" State Result: OIL DO

Loc'n: 7 mi E/Maljamar; 990' FSL, 2310' FWL Sec 11-17S-33E; (Orig cmp 3-8-76 thru Grayb perfs 4449-4551', OTD 4618', PB 4574') OWWO

Spud: 6-17-83; Comp: 6-23-83; Elev: 4158' Grd; TD: 4618' San And

Casing: 8-5/8" 388' / 400 sx; 4" 4618' / 300 sx

Prod Zone: (Grayb-SA), Prod thru Perfs 4449-4616'

IPP: 98 BOPD + 6 BW, Grav 36.3, GOR 1423

Comp Info: CO to 4618'; Perf (Grayb-San And) 4604-16', A/1500 gals, A/3000 gals

Tops EL: NR

API No: 30-025-25229

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Date: 7-27-83 Card No.: 29 dh

LEA COUNTYNEW MEXICOMALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO. State NM

Loc'n: 23 Phillips "E" State 30-025-25229

Sec 11, T17S, R33E

990' FSL, 2310' FWL of Sec

7 mi E/Maljamar

SPD 2-11-76 CMP 3-8-76

WELL CLASS: INT. D FIN DO

FORMATION DATUM FORMATION DATUM

8 5/8" at 388' w/400 sx

4 1/2" at 4618' w/300 sx

TO 4618' (SADR) 4574'

IP (Grayburg) Peris 4449-4551' P 100 BOPD. Pot based on 24 hr test. GOR 1176; gty 35.4

CONTR Hondo OPR'S ELEV 4158' GL, 4168' KB 4600' RT

F.R. 2-9-76
(San Andres)
2-12-76 TD 388'; WOC
2-23-76 TD 4618'; PBD 4574'; WOC
2-27-76 TD 4618'; PBD 4574'; Prep Acid
Perf (Grayburg) 4449-54', 4505-10', 4546-51'
w/4 SPF
3-5-76 TD 4618'; PBD 4574'; Ppg Ld
Acid (4449-4551') 1500 gals
Frac (4449-4551') 19,000 gals oil + 19,500# sd
3-15-76 TD 4618'; PBD 4574'; WO OCC Pot
Ppd 100 BO in 24 hrs (4449-4551')
4-5-76 TD 4618'; PBD 4574'; Complete
LOG TOPS: Rustler 1515', Yates 2794', Seven
Rivers 3146', Queen 3780', Grayburg 4292',
San Andres 4573'
4-10-76 COMPLETION ISSUED 4-2-18 NM
IC 30-025-70035-76

LEA COUNTY NEW MEXICO MALJAMAR FIELD
Well: SHELL OIL CO, 1 State "D-11" Result: OIL DO
Loc'n: 8 mi NW/Buckeye; Sec 11-17S-33E; 660' FSL, 1980' FEL Sec
Unit O
Spud: 2-25-78; Comp: 4-14-78; Elev: 4155' Grd; TD: 4715' San And; PB: 4700'
Casing: 8-5/8" 415' / 375 sx; 5-1/2" 4709' / 1350 sx
Prod Zone: (Grayb San And), T/Pay 4446', Prod thru Perfs 4446-4658'
IPP: 26 BOPD + 27 BW, Grav 36.4, GOR 769-1
Comp Info: Perf (Gray-San And) 4446-4586', 4630-58, A/5800 gals, (15%); frac w/
21,500 gals & sd; ppd 57 BO & 19 BW/24 hrs; C/Cactus
Tops EL: Rustler Anhy 1522', Yates 2834', Seven Rivets 3128', Queen 3804', Grayb
4313', San And 4593'
API No: 30-025-25787

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Date: 6-7-78

Card No.: 5 dh

CO. LEA POOL MALJAMAR STATE N.M. KROENLEIN 562-59
 COMPANY Cabeen Exploration Corp. - #1 - State "D" Elev. 4144
 LOC. 660'FWL & 663.05'FWL Unit D
 Sec. 13, T.17-S, R. 33-E
 5000'

ACID OR SHOT	CASING RECORD 8 5/8- 300- 250	B. Salt	TOPS 2640
		Cuson	3790
SPD. 12-4-59 COM- 12-30-59	I. P. P & A	Penrose	4000
		Promier	4565
		S. And.	4598
GR. GOR TP CP	REMARKS	TP	TD 4830 dolo.
CONT'D. PAGE 2.			

LEA, N.M. 13-17-33 K-562-59
 Cabeen Exploration Corp. - #1 - State "D" PAGE 2.
 DST 3790-3840 (strad.pkr.) failed
 DST 3790-3840 (strad.pkr.) op. 1 hr. rec. 300' SOCM;
 700' mud; FP 390-470; SIP 1275/30".
 DST 4134-4334 failed
 Core 4540-98 rec. 58' dolo., MS.
 Core 4598-4654 rec. 53' dolo., SSO.
 Bodg. oil: 4629-35; 4637-39; 4641-46; 4650-53.

Sec. 13-T175-R33E

LEA COUNTY NEW MEXICO MALJAMAR FIELD
Well: PHILLIPS PETROLEUM, 31 Phillips "E" State "OWWO"
Loc'n: 8 mi SE/Maljamar; 1650' FNL, 2310' FWL Sec 13-17S-33E (Orig. Cmp. Result: OIL DO
8-24-78 thru (Grayb-San And) Perfs 4478-4486', OTD 4700', OPB 4686') Unit F

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Spud: 1-14-83; Comp: 1-22-83; Elev: 4124' Grd; TD: 4700' San And; PB: 4686'
Casing: 8-5/8" 410' / 400sx; 4 1/2" 4700' / 2250sx; 2-3/8" 4650'
Prod. Zone: (Grayb-San And) T/Pay, Prod thru Perfs 4478-4654'
IPP: 17 BOPD + 2 BSW, GOR 1283, Grav 36.9
Comp Info: Perf (San And) 4648-54' w/2 SPF, A/1000 gals (20% NEFE HCL); S/18 BO + 34 BLW/6 hrs; Perf (San And) 4648-54' w/ 4 SPF, A/1000 gals (20% NEFE HCL)
Tops EL: NR
API No: 30-025-25950



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Date: 8-1-84

Card No.: 33 1p

LEA COUNTY NEW MEXICO MALJAMAR FIELD
Well: PHILLIPS PET. CO. 31 Phillips "E" State Result: OIL DO
Loc'n: 8 mi SE/Maljamar, 1650' FNL 2310' FWL Sec 13-17S-33E.

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Spud: 7-1-78; Comp: 8-24-78; Elev: 3588' grd; TD: 4700' Grayb; San And; PB: 4686'
Casing: 8 5/8" 410' / 400 sx, 4 1/2" 4700' / 2250 sx
Prod Zone: (Grayb-San And) T/Pay 4478', prod thru perfs 4478-86'
IPP: 2 BOPD & 10 BW, GOR TSTM, Grav NR
Comp Info: Perf (Grayb-San And) 4478-86'; A/250 gals (12%); S/20 BLW & 6 BAW/3 hrs; P/1 BLO & 9 BSW/24 hrs; sqzd w/100 sx; Perf (Grayb-San And) 4478-86'; A/250 gals; frac w/10,000 gals & 14,500# sd; P/66 BLO/24 hrs; P/2 BLO & 5 BSW/24 hrs; C/Cactus.
Tops: (EL) Rustler 1524', Salado 1703', Yates 2800', Seven Rivers 3132', Queen 3812', Grayb 4315', San And 4601'
API No.: 30-025-25950

Replaces Card #13, dated 11-1-78 to show results of well from Temp Comp



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Date: 3-28-79

Card No.: 13 rm

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PETROLEUM INC. 26 Phillips "E" State Result: OIL DO
Loc'n: 8 mi NW/Buckeye, 330' FNL 330' FEL Sec 14-17S-33E Unit A

Spud: 10-10-76; Comp: 11-1-76; Elev: 4142' Grd, 4152' KB; TD: 4690' San And; PB: 4670'
Casing: 8-5/8" 422'/400 sx; 4-1/2" 4690'/1050 sx;
Prod. Zone: (San And) T/Pay 4630', Prod thru Perfs 4630-45'
IPF: 73 BOPD, 1" ch, GOR 870-1, Grav 36.7, TP 50#
Comp Info: Ran CNDL; Perf (San And) 4630-45', A/1500 gals; F/73 BO + 3 BW/24 hrs, 1" ch, TP 50#; F/57 BO/24 hrs, 1" ch, TP 50#; BHT 104 degs; C/Paul's Drlg.
Tops: (EL) Rustler 1518', Yates 2807', Seven Rivers 3146', Queen 3803', Grayburg 4316', San And 4599'.
API No: 30-025-25333

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Date: 12-1-76 Card No.: 4 bc

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PET. CO. 25 Phillips "E" State Result: OIL DO
Loc'n: 8 mi NW/Buckeye, 330' FNL 1980' FELSec 14-17S-33E Unit B

Spud: 9-23-76; Comp: 11-27-76; Elev: 4148' grd, 4158' KB; TD: 4650' San And; PB: 4609'
Casing: 8 5/8" 422'/400 sx, 4 1/2" 4648'/1350 sx
Prod Zone: (Grayb) T/Pay 4381', prod thru perfs 4381-4581'
IPF: 23 BOPD, GOR 641-1, Grav 36.4
Comp Info: Crd (Seven Rivers) 3794-99', rec 3', no desc; Crd (Queen) 3799-3843', rec 43', no desc; Crd (Grayb) 4450-4510', rec 60', no desc Crd (Grayb) 4510-70', rec 60' no desc; Crd (San And) 4570-4630', rec 60', no desc; Perf (Grayb) 4381-86', 4475-80', 4526-31', 4567-70', 4579-81' w/4 SFF; A/2000 gals; frac w/28, 000 gals oil & 26, 000# sd; P/22 BLO/24 hrs; P/23 BO/24 hrs; Ran CNDL & GRL logs; BHT 102 deg; C/Paul's.
Tops: (EL) Rustler 1512', Salado 1700', Yates 2798', Seven Rivers 3148', Queen 3801', Grayb 4312', San And 4594'.
API No.: 30-025-25332

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Date: 12-15-76 Card No.: 13 rm

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO, 27 Phillips "E" State Result: OIL DO
Loc'n: 8 mi NW/Buckeye; Sec 14-17S-33E; 1980' FNL, 660' FEL Sec Unit H

Spud: 10-23-76; Comp: 11-10-76; Elev: 4138' Grd, 4148' KB; TD: 4682' Sar And; PB: 4666'
Casing: 8-5/8" 422'/400 sx; 4-1/2" 4682'/1300 sx
Prod Zone: (San And), T/Pay 4636', Prod thru Perfs 4636-46'
IPF: 66 BOPD + 3 BW 36/64" ch, Grav 36.6, GOR 910-1, TP 100#
Comp Info: Perf (San And) 4636-46', A/1500 gals; F/80 BO & 4 BW/24 hrs 36/64" ch ran CNDL logs; BHT 105 deg; C/Paul's Drlg
Tops EL: Yates 2792', Seven Rivers 3143', Queen 3798', Grayb 4315', San And 4595'
API No: 30-025-25334

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Petroleum Information

CORPORATION
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Date: 12-8-76 Card No.: 7 dh

30-025-23893

Co. LEA

POOL VACUUM-

STATE

N.M. K-4-17-34

GRAYBURG-SAN ANDRES

COMPANY Koch Exploration Co. - #1 - Vacuum-State

ELEV. 4106 KB

LOC. 2086' FSL & 766' FWL Unit L

Sec. 4, T.17-S, R.34-E

11,000' RT-Wolfe

PAY STIMULATION

PERF: 4701-
4707

CASING

13 3/8- 340- 400
8 5/8- 4000- 375
4 1/2" L.- 3880-
- 4936- 500

TOPS

Anhy 1587
Yates 2872
Queen 3843
S. And 4658
Glor 6069
Tubb 7387
Abo 8145
Wolfe 9408
Pn Lm 10039

SPD. 10-3-71

COMP. 11-27-71

I. P. P. 6 BO + 15 BW/24 hrs.

GR. 35. GOR nil TP CP

CONT'D. PAGE 2.

TP 4701
TD 11,406
PBD 4900

LEA, N.M.

Koch Exploration Co. - #1 - Vacuum-State

K-4-17-34

PAGE 2.

DST : 10906-11046 op. 1 hr., rec. 185' oil & gas
cut mud, 180' gas cut mud, 90' hvy. oil &
gas cut mud, 270' oil & gas cut muddy wtr.,
90' wtr.; FP 284-586; ISIP 1556/75 mins.;
FSIP 1333/2 hrs. PB 4900'

Perf: 4701-4707', 2000 gal. acid; 20,000 Frac
(26,500#sd)/4701-07'; P. 6 BO + 15 BLW/24
hrs.

LEA		POOL VACUUM		STATE N.M. KROENLEIN 751-61	
COMPANY Neville G. Penrose, Inc. - #4 - Phillips - Lea					
LOC. 330' PSL & FWL Unit M Sec. 4, T.17-3, R. 34-E					
ACID OR SHOT		CASING RECORD		TOPS	
		8 5/8- 319- 250		Anhy. 1586 Salt 1680 B.Salt 2902 Yates 2958 Queen 3921 Penrose 4097	
SPD. 10-5-61		COMP. 10-15-61			
I. P. P & A				TR	
GR. BOR		TP		TO 4122 L.	
REMARKS				PSO	
CONT'D. PAGE 2.					

LEA, N.M. 4-17-34 E-751-61
 PAGE 2.
 Neville G. Penrose, Inc. - #4 - Phillips-Lea.

Core 3912-77 rec. 65': 9' anhy. & dolo.; 10' anhy. (red) sand; 12' red sd., tite; 4' gry. sand w/330, tite; 3' red tite sand; 2' gry. sand w/330, tite; 25' interbedded anhy. & dolo.

Core 4080-4122 rec. 42': 16' interbedded anhy. & dolo.; 14' red anhy. sand tite, NS; 12' interbedded anhy. & dolo., NS.

Co. LEA POOL NW-VACUUM STATE N.M. D-2-11-24
 -ABO KROENLEIN
 COMPANY J. C. Barnes Oil Co. - #1 - Lea-State
 ELEV. 4118 GR
 LOC. 2029' FNL & 1980' FWL Unit F
 Sec. 5, T.17-S, R.34-E
 11,900' RT-Cisco

PAY STIMULATION	CASING	TOPS
PERF: 10,169- 10964	13 3/8-2701- 375 8 5/8-4305- 800 5 1/2-11055-400 2 3/8-10125	Anhy 1552 Yates 2808 Queen 3782 S.And 4620 Glor 6022 Tubb 7350 Abo 8050 Wolfe 9800
SPD. 9-17-70	COMP. 11-16-70	
I. P. F. 335 BO + 33 BLW/24 hrs., 32/64" ch.		
GR. 39. GOR 1755 TP 200 CP		TP 10,169
Perf: 10169, 10171, 10173, 10175, 10198, 10203, CONT'D. PAGE 2.		TD 11,055 PBD 11,019

B-5-17-34
 LEA, N.M. PAGE 2.
 J. C. Barnes Oil Co. - #1 - Lea-State
 Perfs cont'd.: 10206, 10209, 10211, 10220,
 10372, 10377, 10860, 10863, 10866, 10936,
 10962, 10964'; 11,500 gal. acid/10169-
 10380'; 13,000 gal. acid/10770-964'; Flow
 335 BO + 33 bbls. LW (10169-964').

30-025-23712
Co. LEA

POOL NW VACUUM-STATE N.M. B-5-17-34
WOLFCAMP KROENLEIN

COMPANY J. C. Barnes Oil Co. - #2 - Lea-State

LOC. 2184'FNL & 660'FEL Unit H ¹⁹⁸⁴ ELEV 4107 GR
Sec. 5, T.17-S, R.34-E
11,900'RT-Cisco ⁹⁹²⁸

PAY STIMULATION	CASING	TOPS
PERF: 10781-	13 3/8- 360- 375	S.And 4647
10940	8 5/8-4300-1300	Glor 6047
	5 1/2-11095-600	Tubb 7363
		Abo 8070
	2 3/8-10715	Wolfc 9854
		" pay 10894
SPO. 2-24-71	COMP. 4-19-71	
I. P. F. 146 BO + 2 BW/24 hrs.,		
17/64" ch.		
GR. 42. GOR 1605 TP 100 CP pkr		TP 10,781
Perf: 2 SPI/10781, 10820, 10855,		TD 11,095
10868, 10895, CONT'D. PAGE 2.		PBD 11,057

LEA, N.M.

J. C. Barnes Oil Co. - #2 - Lea-State

B-5-17-34
PAGE 2.

Perfs cont'd.: 10900, 10904, 10934, 10940';
3000 gal. acid + 22 ball sealers/10781-
10940'; F. 134 bbls. fluid (5% wtr)/24
hrs., 28/64" ch.; F. 146 BO + 2 bbls. wtr.,
234 MCFG/24 hrs., 17/64" ch.

30-025-23768

Co. LEA

POOL VACUUM, NW-STATE N.M. B-5-17-34
WOLFCAMP

COMPANY J. C. Barnes Oil Co. - #2 - Lea-Mex

ELEV. 4098 GR

LOC. 1980' FSL & 2130' FEL Unit J com. 1984

Sec. 5, T.17-S, R.34-E 108789

12,000' RT-Wolfcamp

PAY STIMULATION

PERF: 10757-
10892

CASING

13 3/8- 360-circ
8 5/8-4300-500
5 1/2-11065-240

TOPS

Anhy 1540
Yates 2810
Queen 3810
S. And 4636
Glor 6022
Tubb 7341
Abo 8048
Wolfe 9810

SPD. 5-26-71

COMP. 7-10-71

I. P. F. 341 BO + 20 BW/24 hrs.,
16/64" ch.

GR. 40.5 GOR 1809 TP 225 CP pkr

Perf: 10757, 10776, 10836-855,
CONT'D. PAGE 2.

TP 10,757

TD 11,050

PBD 11,020

LEA, N.M.

J. C. Barnes Oil Co. - #2 - Lea-Mex

B-5-17-34

PAGE 2.

Perfs cont'd.: 10859, 10892'; 15,000 gal. acid,
15,000 gal. gelled wtr w/ball sealers/
10757-892'; F. 341 BO + 20 BW, 617 MCFG/
24 hrs. (10757-892').

LEA POOL NW VACUUM STATE N.M. K-5-17-34
 -WOLFCAMP (WILDCAT) KROENLEIN
 COMPANY King Resources Co. - #1 - Lea-Mex-State
 LOC. 1980' FSL & 660' FWL Unit 1 1984 ELEV 4124 GR
 Sec. 5, T.17-S, R.34-E 168,83 4129 DF
 11,900' RT-Cisco

PAY STIMULATION	CASING	TOPS
PERF: 10867-878,	13 3/8- 374- 375	Anhy 1553
10943-950	8 5/8-4294- 500	Yates 2810
	5 1/2-11060-300	Queen 3785
	2 3/8-10943	S.And 4636
		Glor 6023
		Tubb 7350
SPD. 3-26-70	COMP. 6-1-70	Abo 8051
I. P. F. 258 BO, no wtr./24 hrs.,		Wolfe 9816
20/64" ch.		Penn 11220
GR. 42. GOR 300 TP 240 CP pkr		Penn L. 11549
DST 10179-190 op. 2 1/2 hrs.,		TP 10,867
rec. 450' gas in DP; CONT'D. PAGE		TD 11,766
		PBD 11,150

LEA, N.M. K-5-17-34
 King Resources Co. - #1 - Lea-Mex-State PAGE 2.

30' slt. O&GCM; FP 16-16; ISIP 233/1 hr.;
 FSIP 463/4 hrs.
 DST 10863-877 op. 5 hrs., gas in 5 mins. at
 max. 600,000 CFGPD; oil in 2 hrs. 57 mins.,
 flow to tanks 29.06 BO/2 hrs.; rev. out
 23.23 BO (Gr. 39.7); no wtr.; FP 114-903;
 ISIP 3450/1 hr.; FSIP 3411/7 hrs. (rec.
 540 cc oil, no gas or wtr.--SC leaked)
 DST 10936-951 op. 4 hrs., gas in 11 mins.,
 est. 590,000 CFGPD; rev. out 26.5 BO, no
 wtr; FP 62-675; ISIP 3489/1 hr.; FSIP 3463/
 6 hrs. (rec. 4.4 CFG + 560 cc's oil, Gr.
 35.1, GOR 1050; 600# psi).
 DST 11602-630 pkr failed.
 DST 11570-630, 3000' WB, op. 5 1/2 hrs., gas in
 3 hrs. 25 mins., TSTM; rec. WB, 60' oil,
 CONT'D. PAGE 3.

LEA, N.M. K-5-17-34
 King Resources Co. - #1 - Lea-Mex-State PAGE 3.

90' mud; FP 1398-1472; ISIP 8053/1 hr.;
 FSIP 7924/6 hrs. (rec. 5.3 CFG, 800 cc's
 mud, 1000 cc's oil, Gr. 41.8; GOR 850/1
 in SC).
 Perf: 10867-878, 10943-950; swb. 37 BLW/3 hrs.,
 500 gal. acid; swb. 50 BLW/3 hrs.; kick
 off & flow all load; F. 127 BO (Gr. 38.)
 + 8 bbls. wtr/12 hrs., gas at 300,000
 CFGPD, TP 50#; F. 128 bbls. fluid (3% wtr./
 4 hrs., 32/64" ch., TP 50#; 3000 gal. acid,
 flush w/5000 gal. & swb. 91 bbls. LW w/show
 of oil/6 hrs. (good show of gas); swb. &
 F. 75 BLW + 72 BNO/13 hrs.; F. 33 BNO + 16
 BLW, gas at 100,000 CFGPD/11 hrs., FTP 50#,
 20/64" ch.; F. 93 BO/24 hrs., gas at 150,000
 CONT'D. PAGE 4.

LEA, N.M. K-5-17-34
 King Resources Co. - #1 - Lea-Mex-State PAGE 4.
 CFGPD/24 hrs., 24/64" ch., FTP 50#. F. 258
 BO, no wtr., 77 MCFG/24 hrs., 20/64" ch.,
 TP 240#.

LEA		POOL VACUUM		STATE N. MEX. KROENLEIN		766
COMPANY Repollo - #1-200 - State						ELEV. 4112
LOC. 660' FSL & 1980' IRL Unit O						
Sec. 5, Twp. 17, R. 34						
ACID OR SHOT		CASING RECORD		TOPS		
Shot 140 qts. fr. 4695-4721		10 3/4 - 258 - 125		TA	1500	
				TL	3900	
BPD. 7-15-44		COMP. 12-31-44				
I. P. Temp. Abd.						
GR.	GOR	TP	CP	TP		
REMARKS	SO 4695-4702			TO	4741 L	
				PBO		

Sec. 6-T175-R34E

CO. LEA POOL VACUUM STATE N.M. KROENLEIN 770-57
 COMPANY Sinclair Oil Co. - #3 - State 197 ELEV. 4130 GR
 LOC. 1980' FNL & 1762.5' FWL Unit F
 Sec. 6, T. 17S, R. 34E
 5050'

ACID OR SHOT	CASING RECORD	TOPS
	13 - 307- 350	Rust 1507 Yates 2805 Queen +379 3751 SA -430 4560
SPD. 3-19-57	COMP. 4-21-57	
I. P. P&A		TP TO 5050 Dol. PSD GR-N
GR. BOR TP CP		
REMARKS DST 4852-4921, op 1 hr. 15 min., rec 5' mud w/SSO FP 0 SIP 125/30 min.		

CO. LEA POOL WILDCAT STATE N.MEX KROENLEIN 765
 COMPANY Repollo Oil Co. - #2 - State "197"
 (only op. by Sinclair)
 LOC. 1850' FSL & 330' FEL Unit I
 Sec. 6, Twp. 17-S, R. 34-E
 8.

ACID OR SHOT	CASING RECORD	TOPS
	12 1/2 - 40 9 5/8 - 1574 -500 7 - 4545 -100	T.A. 1520 B.S. 2620 T.Yates 2790 T. 1st. L. 3010
SPD. 1-8-39	COMP. 3-21-39	
I. P. P&A		TP TD 3020 PSD
GR. BOR TP CP		
REMARKS BG 4618, SO 4637-40, 4897, SW 5012-20 alt wtr.		

LEA, N.M.

H. L. Brown, Jr. - #1 - State "B"

B-6-17-34

PAGE 2.

gas to sur. in 48 mins., TSTM; incr. to max. 72,000 CFGPD after 3 hrs. 45 mins. & decr. to 69,000 CFGPD at end of test; rev. out 8190' gas in DP; 5.8 bbls. oil & gas cut mud, 14 bbls. free oil (Gr. 40.); 10 bbls. oil & gas cut WB; rec. 60' sli. O&GCM below sub; FP 508-970; ISIP 3347/1 hr.; FSIP 3347/6 hrs. (rec. 4.7 CFG, 950 cc oil, no wtr., in SC; 750# press.) PB 11,010'; spot 200 gal. acid.

Perf: 1 SPF/10754-762; 10896-900; 10907-911; 10932-946; 10948-954'; 3000 gal. acid, had commun. with top perms; release pkr & reran tbg & pkr/10,859'; swb. 60 BL&AW/6 hrs.; swb. 35 bbls. LW + 14 BNO/7 hrs.; 2500 gal.

CONT'D. PAGE 3.

LEA, N.M.

H. L. Brown, Jr. - #1 - State "B"

B-6-17-34

PAGE 3.

acid + 2000 gal; gel wtr & 30 ball sealers; swb. 54 BO + 125 BLW/20 hrs.; swb. 27 BO + 12 BLW/8 1/2 hrs.; 10,000 gal. acid/10896-10954' perms (2000 gal. gel wtr & ball sealers); swb. 143 BAW/12 hrs.; pull tbg & pkr; BP/10,850'; pkr/10,219'; sqz. perms/10754-762'; DOG.

RePerf: 8/10754-762', 2500 gal. acid; flow 20 BLW/30 mins. & died; swb. 10 BLW + 5 BO/6 hrs.; 60,000 Frac (5000 gal. acid) & flush w/100 bbls. gel wtr.; P. 72 BO + 91 BLW; P. 100 BO + 44 BLW, 204 MCFG/24 hrs. (10754-762').

Oil & Gas Information

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COUNTY	LEA	FIELD	Vacuum, NW.	STATE	NM
OPR	BROWN, H. L., JR.	API	30-025-2449	SERIAL	
NO.	2	LEASE	State "B"	MAP	
Sec 6, T-17-S, R-34-E				CO-OP	
990' FSL, 330' FWL of Sec Unit M				CLASS	GL
SPD	9-20-73	CMP	12-27-73	FORMATION	DATUM
CSG	11 3/4" at 387' w/400 SX				
	8 5/8" at 4700' w/250 SX				
	pulled 245' of 8 5/8"				
	TO 11,120'				PBD 6025'

TEMPORARILY ABANDONED

4650 pl comp

F.R. 8-20-73
(Wolfcamp)
9-26-73 Drlg 3755'
10-3-73 Drlg 5128' lm
10-10-73 TD 7059'; Trip
10-17-73 Drlg 8981' lm & sh
10-24-73 Drlg 10,510' lm & sh
10-31-73 Drlg 11,089' lm
DST 10,890-915', open 1 hr (942' WB),
GTS in 13 mins, Flwd @ 11 MCFGPD, rec
WB + 30' FO (Grav 41) + 950' HO&GCW
cushion + 120' W&GCM, 1 hr ISIP 2943#,
IFP 379-341#, FFP 290-430#, 4 hr FSIP
2841#, HP 5265-5240#, BHT 149 deg

LEA
BROWN, H. L., JR.

Vacuum, NW.
2 State "B"
Sec 6, T17S, R34E

NM
Page #2

10-31-73 Continued
DST 10,920-935', open 1 hr (975' WR),
rec 825' WB + 150' SGCW cushion + 10'
sli GCM, 1 hr ISIP 722#, FP 430-443#,
2 hr FSIP 747#, HP 5253-5253#, BHT 149 deg
DST 10,940-11,000', open 1 hr, GTS
in 55 mins @ TSTM, rec 30' FO (Grav
39.8) + 1037' SO&GCWB, 1 hr ISIP 3322#,
FP 503-477#, 4 hr FSIP 3449#, HP
5367-5367#, BHT 150 deg
11-7-73 TD 11,120'; PBD 6025'; SI
SP-DST 10,190-255', rec 905' M, 1 hr
ISIP 3908#, FP 326-324#, 2 hr FSIP

11-7-73 Continued
3904#, HP 4944-4895#, BHT 141 deg
11-14-73 TD 11,120'; PBD 6025'; SD WOO
11-28-73 TD 11,120'; PBD 6025'; SD WOO
12-5-73 TD 11,120'; PBD 6025'; SD
12-19-73 TD 11,120'; PBD 6025'; Prep CO
12-27-73 TD 11,120'; PBD 6025'; Prep Temp Aban
12-31-73 TD 11,120'; PBD 6025'; TEMPORARILY ABANDONED
Will Attempt to Complete at a Later Date
LOG TOPS: San Andres 4573', Wolfcamp 10,828'
1-5-74 COMPLETION REPORTED

LEA COUNTY NEW MEXICO VACUUM FIELD
Well: H.L.BROWN, 3 State "B" Result: D & A D
Loc'n: 9 mi E/Maljamar; 660'FSL,1980'FEL Sec 6-17S-34E

Unit O

Spud:5-21-84;Comp:9-12-84;Elev:4123'Grd; TD:4700' San And
Casing: 8-5/8" 15 56'/1000sx;4 1/2"4620'/450 sx
Comp Info: no cores or DSTs;A/10,000 gals, P/5 BO/24 hrs;
A/1500 gals, frac 25,000 gals & 33,000# sd; C/WEK #1
Tops EL: Rustler 1550',Yates 2810', San Andres 4612'
API No:30-025-27801

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Re-Issued for results of well; Abnd location 2-2-84 on card 31

Petroleum Information[®]
CORPORATION
A Subsidiary of A.C. Nielsen Company

Date: 10-3-84 Card No.: 17 dh

CO. 1-184 POOL WILDCAT STATE 1-184 KRDEINLEIN 704	
COMPANY Repollo Oil Co. - #1 - State-"197" Elev. 4118	
(fully. op. by Sinclair)	
Loc. 350 FSL & FEL Unit P	
Sec. 6, Twp. 17-S, R. 34-E	
ACID OR SHOT ACID:8000 gals.	CASING RECORD 13 - 2A1 - 200 9 5/8 - 2742 -250 7 -4359 - 100 2" tbg. 4684 pkr. 4284
Tops T.A. 1540 T.S. 1851 B.S. 2640 T.Yates 2830 T.Br.L 2982 T.Gr.L 4350 D3AD 500 4618	
SPO. 6-28-38 COMP.	
I. P. F 95 BO/9 hrs thru 3/4 ch on 2" No G est.	
GR. BOR TP CP	SA -50, by Symphonie TP 4644 TD 5016 PBD 4685
REMARKS CONT'D PAGE #2	

LEA, NEW MEXICO 6-17-34 PAGE 48
Repollo Oil Co. - #1 - State - #197"
AA Sub. 30.80s F 40 BO/12 hrs thru cag.
BO 3810-15 odor, 3860-65, 80 4656-60 BO&O 4644-55
INCO&O 4677-80, SW 8850-40, 400' alt. W 5 hrs,
5006-16 Sltty Sul W 1 BCPH

LEA COUNTY NEW MEXICO NACUUM, NW. FIELD
Well: PENNZOIL CO. 1 Sinclair State "6" OWWO Result: D&A D
Loc'n: 9 1/2 mi E/Maljamar, Sec 6-17S-34E-660 FSL-760 FEL SEC

Unit P

Spud: 5-29-81, Comp: 6-4-81, Elev: 4132' GL, TD: 11,819 (PSLV)
Comp Info: (Orig. Pennzoil United, Inc., Comp 4-28-69, (WFMP) Perfs
10,938-991, OTD 11,819; OPB 11,784) Sqz/400sx, DOC to 11,784, Perf
(PSLV) @ 11,702-11,763 w/1 SPI (OA) Att. A/2000 gals, Perf (PSLV) 11,702
11,763 (OA) Att. A/2000 gals, would not break

Tops: (EL) NR
API No: 30-025-23011

Replaces card #34, dated 10-28-81, to correct info.

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Date: 11-11-81 Card No: 46 mja

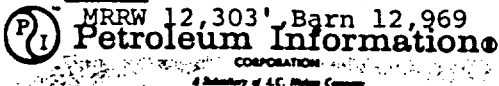
LEA COUNTY NEW MEXICO NW. VACUUM FIELD
Well: PENNZOIL CO. 1 Sinclair State "6" Result: D&A D
Loc'n: 9 1/2 mi E/Maljamar, Sec 6-17S-34E-660 FSL-760 FEL SEC

Spud: 5-29-81, Comp: 6-4-81, Elev: 4132' GL, TD: 11,819 (PSLV)
Casing: 13 3/8" 340' / 360sx, 8 5/8" 4293' / 482sx, 4 1/2" 11,819' / 725
Comp Info: (Orig. Pennzoil United, Inc. comp. 4-28-69 (WFMP) Perfs
10,938-991, OTD 11,819, OPB 11,784) Sqz/400 sx, DOC to 11,784, Perf
(PSLV) @ 11,702-11,763 w/1 SPI (OA) Att. A/2000 gals, Perf (PSLV) 11,702
11,763 (OA) Att. A/2000 gals; 2hr FSIP 1141, HP 6194-6194, DST-SP
(BSPG) 7200-64, op 2hr 5mins, rec 2000' DRLG FLUD, 1 hr ISIP 3615,
FP 129-715, 2hr FSIP 3615, HP 3615-3615', DST-SP (BSPG) 7190-7275
op 1hr 5mins, rec 280' DRLG FLUD, 1hr ISIP 2715, FP 22-146, FSIP
2447, HP 3516-3516, BHT 155 deg @ 7195, DST (BSPG) 8740-8840, op 1hr
5min, GTS 52mins / FSIP, rec 4BBL GO+WCD+4 BBL, FWTR+4 1/2 BBL Oil
1 hr ISIP 3496, FP 42-313, 4hr FSIP 3516, HP 4272-4272, BHT 170 deg,
@ 8745, PB 8965, Perf (BPSB) 8790-8800w/2 SPF, A/250gals, F/45BO+8BW+
60MCFGPD/24hrs 22/64ch, TP10, Ran GRL, CCL LOGS,

Tops: (EL) DLWR5203', BSPG7005', WFMP10,288', STRN 11,536', ATOK11,942

MRRW 12,303', Barn 12,969 API No: 30-025-23011

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Date: 10-28-81 Card No: mja

LEA COUNTY NEW MEXICO P-6-17-34
POOL UNDES. STATE N.M. KROENLEIN
WOLFCAMP (S. KEMNITZ)
COMPANY Pennzoil United, Inc. - #1 - Sinclair State
"6" Elev 4139 KB
LOC. 660' FSL & 760' FEL
Sec. 6, T.17-S, R.34-E
12,000' RT-Penn.

PAY STIMULATION	CASING	TOPS
PERF: 10938-	13 3/8- 340- 370	Anhy 1548
10991	8 5/8-4293- 482	Salt 1661
	4 1/2-11819-725	Yates 2812
		7 Rivs 3138
		Queen 3797
		S. And 4622
		Glor 6020
		Padd 6106
		Tubb 7358
		Abo 8069
SPD. 2-19-69	COMP. 4-24-69	
I. P. F. 265 BO + 10 BLW/24 hrs.,		
24/64" ch.		
GR 42. GOR 1615 TP 250 CP pkr		
TOPS CONT'D.: Wolfe 9885; Penn		
11345.		
	CONT'D. PAGE 2.	

cont'd.
TP 10,938
TD 11,819
PBD 11,784

LEA, N.M. P-6-17-34
 Pennzoil United, Inc. - #1 - Sinclair-State
 "6" PAGE 2.

DST / 10888-10910 op. 2 hrs. 55 mins., rec.
 60' sli. GCM w/trace of oil; FP 43-43;
 ISIP 2222/1 hr. 30 mins.; FSIP 3501/2
 hrs. 30 mins.
 DST 10930-948 op. 315 mins., gas in 16 mins.
 at 38,000 CFGPD & incr. to 65,000 CFGPD/
 1 hr. 30 mins.; rec. 43 BO, no wtr.
 (Gr. 39.6); FP 121-996; ISIP 3789/90
 mins.; FSIP 3633/300 mins.
 DST 11684-744 op. 3 hrs. 45 mins., rec. 270'
 free oil (Gr. 42), 2700' O&GC WB; FP
 1321-1321; ISIP 7748/2 hrs.; FSIP 7104/
 3 hrs.
 Perf 1 SPI/10938, 10940, 10947, 10952, 10954,
 10981, 10983, 10989, 10991; 500 gal.
 acid, swb. 30 BLO; KO&F 20 BLW/1 hr.,
 CONT'D. PAGE 3.

LEA, N.M. K-6-17-34
 Pennzoil United, Inc. - #1 - Sinclair-State
 "6" PAGE 3.

1" ch.; F. 73 BNO/16 hrs., 20/64" ch.;
 kill well; 500 gal. acid/10938-
 10954' w/500 gal; swb. 70 BF (70% oil)/
 9 hrs.; F. 163 BO/24 hrs., 20/64" ch.,
 TP 200#; reA/3000 gal., 19938-954';
 rec. 295 bbls. fluid (12% AW)/20 hrs.,
 20/64" ch.; 3000 gal. acid/10981-991'
 perfs, swb. 37 BO + 34 bbls. AW/5 hrs.;
 F. 265 BO + 10 BLW, 428 MCFG/24 hrs.,
 24/64" ch. (10938-10991').

CO. LEA POOL VALUUM STATE H. F. KROENLEIN 008
 COMPANY Magnolia Pet. Co. - #1-X - State Elev. 4120
 Loc. 330' FEL & 330' FEL Unit A
 Sec. 7, Twp. 17B, R. 34E

ACID OR SHOT	CASINO RECORD	TOPS
Acid: 4000 gals.	9 5/8 - 1560 - 730 7 - 4660 - 700	TA. 1530 T.S. 1680 B.S. 2840 T.Y. 2830 Br.L. 3050 T.S.A. 4345
BPD. 3-11-48 COMP. 5-10-48		
I. P. F. 111 BOPD thru 24/64" TC on 2"		TP 4660
DR. 33.8 BOP 1164 125 CP		TD 6479 wh sd.
REMARKS CONT'D PAGE #2		PED 4674

LEA, NEW MEXICO 7-17-34 PAGE #2
 Magnolia Pet. Co. - #1-X - State
 CORRED 4663-70, Res. 4' soft pro. L. W/SO 3' hard
 dense L. frac. SO.
 SO 4660
 A-1000 gals. 4660-72. F. 150 BOPD thru 1/2" chk.
 A-3000 gals. 4636-74. Swb. 1 BOPD then swb & F.
 115 BOPD thru 20/64" chk. TP 110 Qty. 35.8

CO. LEA	POOL VACUUM	STATE H. F. KROENLEIN	631
COMPANY Continental Oil Co.-#1-7-1 - State			ELEV. 4130
LOC. 330' FEL & 1650' FEL Unit B			
Sec. 7, Twp. 17, R. 34			
S.			
ACID OR SHOT	CASINO RECORD	TOPS	
Total Acid:	13 - 305 - 300	T.A.	1550
4000 gals.	9 5/8 - 1639 - 425	B.S.	2720
	7 - 4385 - 425	T.V.	2840
	2" tbg. 4767	T.1st L	3000
		T.L.Gr.	4340
BPD. 7-12-38 COMP. 1-10-38			
I. P. L&A			
EN. 330' BOP	TP	CP	TP
REMARKS SC 3830-60; SO 4649-51 odor,			TD 4895
SLK 4870-60			PSD

LEA POOL VACUUM STATE H.M. KROENLEIN 741-61	
COMPANY Socony Mobil Oil Co., Inc. - #4 - State ELEV. 4132 "X" (only. Magnolia -#4 - State "X", SEE: CARD #669-57 for orig. (orig.)	
LOC 660'PHL & 1980'PEL Unit B Sec. 7, T.17-S, R. 34-E	
ACID OR SHOT Natural OR 4638-4703	CASING RECORD old 5 -4638-1300
SPD Re- COMP. 10-19-61 P. P. 8 BOPD	
GR. GOR TP CP REMARKS	TP 4638 TD 4703 PRO

LEA POOL VACUUM STATE H.M. KROENLEIN 669-57	
COMPANY Magnolia Pet. Co. - #4 - State "X" ELEV. 4132 DP	
LOC. 660'PHL & 1980'PEL Sec. 7, T. 17-S, R. 34-E 4750'	
ACID OR SHOT	CASING RECORD 8 - 1570 200 5 - 4638-1300
SPD. 6-15-57 COMP. 7-17-57 I. P. Temp. Aband.	
GR. GOR TP CP REMARKS	TP TD 4703 dolo. PRO GR-V

LEA, H.M. 7-17-34 K-669-57
 Magnolia Pet. Co. - #4 - State "X". PAGE 2.
 Core 4639-78 rec. 39': 11' dolo., 3' dolo. w/poro.,
 6" dolo.; 5 1/2' dolo. w/poro., bldg. oil; 4'
 dolo.; 1' dolo. w.per. bldg. oil; 14' dolo.
 Core 4678-4703 rec. 22' dolo.

CH. LEA POOL UNDES. - STATE N.M. P-7-17-34
 CISC0
 COMPANY Pennzoil United, Inc. - #1 - Mobil-State
 "7" ELEV. 4149 KB
 LOC. 660' FNL & 1930' FEL Unit B
 Sec. 7, T.17-S, R.34-E
 12,000' RT-Penn

PAY STIMULATION	CASING	TOPS
PERF: 11711-	13 3/8- 348- 350	Anhy 1557
11753	8 5/8- 4304- 814	Yates 2820
	4 1/2- 11888- 1035	Queen 3810
	2 3/8- 11660	S. And 4618
		Glor 6031
		Tubb 7323
SPD. 5-3-69	COMP. 6-29-69	Abo 8124
		Wolfe 9920
I. P. F. 540 BO, no wtr/24 hrs., 16/64" ch.		Penn 11400
GR. 42.5 GOR 1089 TP 1100 CP PKR		TP 11,711
DST 10845-862 op. 2 hrs. 15 mins.,		TD 11,888
rec. 80' hvy. O&GCM (Gr. 39);		PBD
1200' gas in DP; CONT'D. PAGE 2.		

LEA, N.M. P-7-17-34
 PAGE 2.
 Pennzoil United, Inc. - #1 - Mobil-State "7"

FP 20-20; ISIP 2598/1 hr. 30 mins.; FSIP 2146/2 hrs.
 DST 2 10949-966 op. 4 hrs. 15 mins., rec. 120' very hvy. oil & gas cut mud; FP 15-15; ISIP 3658/1 hr. 30 mins.; FSIP 3362/2 hrs.
 DST 10990-11010 op. 4 hrs. 15 mins., rec. 5300' salt wtr.; FP 404-2411; ISIP 3568/90 mins.; FSIP 3247/4 hrs.
 DST 11709-756 op. 2 hrs. 45 mins., gas in 5 mins., WB in 55 mins., oil in 70 mins.; F. 99.5 BO (Gr. 44)/1' 20" 3/8" ch., gas at 787,000 CFGPD, GOR 353; rev. out 25 BO (Gr. 44.); FP 1595-4067; ISIP 7975/90 mins.; FSIP 7905/2 1/2 hrs.
 Perf 1 SPI/11711, 11715, 11717, 11721, 11742, CONT'D. PAGE 3.

LEA, N.M. P-7-17-34
 PAGE 3.
 Pennzoil United, Inc. - #1 - Mobil-State "7"

Perfs cont'd.: 11745, 11748, 11751, 11753'; 500 gal. acid/11711-753'; F. 405 BO, no wtr./8 hrs., 16/64" ch. (F. 540 BO, no wtr., 587 MCFG/24 hrs., 16/64" ch.)

Sec. 7-T17S-R34E

NEW MEXICO

VACUUM FIELD

INC, 1 Mobil State

Result: D & A D

; 1980' FNL, 1980' FWL Sec 7-17S-34E

Unit F

omp: 11-11-82; Elev: 4128' Grd; TD: 5050' SanAnd

1535'/615 sx

lazar #14

27980

mation®

on Company

Date: 1-19-83 Card No.: 41 dh

WEST VACUUM STATE N.M. KROENLEIN 1143-57

tr. Co. - #3 - State "X" Elev. 4132 E

Unit G

R. 34E

CARING RECORD	TOPS
8 5/8 - 1567 800	Andy. 1552
5 1/2 - 4640- 1375	Salt 1664
	B. Salt 2745
	Yates 2802
	Bm. L. 3060
	Queen 3800
5-1-57	Dol. 4310
	S.A. 4617
	TP 4640
	TD 4730 Sh., Dol.
rec. 1' sd, vy fine grn, red sh.	
cc 9' dolo. w/some anhy.	
CON'T. PAGE 2	

K-1143-57

34-E

#3 - State "X"

39' dol, btm. 5' w/por & SO

40' dol. w/sh & anhy.; swb. op. Hole

swb. dry/ 1 hr.

Co. LRA POOL VACUUM STATE N. MEX KRÖENLEIN 669
 COMPANY Magnolia - #2-X - State ELEV. 4103
 Loc. 1650 FNL & 330 FEL Unit H
 Sec. 7, wp. 17S, R. 34-E

ACID OR BHOY	CASINO RECORD	TOPS
9000 gals. Acid	9 5/8 - 1805 -500 7 - 4640 -600	T.A. 1530 B.S. 2660 T.Y. 2810 T.Br.L. 3030 T.Gr.Brg. 4320 T.S.A.-497 4800
BPA 12-15-48	Comp. 3-1-49	-497 Symp
I. P. P. 50 BO/24 thru 2" @ 4656		TP 4641 TD 4653L PED
GR.30.9 GOR 491 TP	CP	
REMARKS AA swb. 18 BO & 16 BAW/24 hrs.		

LEA COUNTY NEW MEXICO VACUUM, N. FIELD
 Well: MOBIL OIL CORP. 1 State XX Com. Result: GAS DG
 Loc'n: 6 mi NW/Buckeye, 1980' FSL 660' FEL Sec 7-17S-34E.
 Unit I

Spud: 1-7-77; Comp: 4-23-77; Elev: 4105' grd; TD: 13,470' Mor; PB: 13,422'
 Casing: 12 3/4" 350'/500 sx, 8 5/8" 4850'/2400 sx, 5 1/2" lnr 4463-13,467'/1500 sx
 Prod Zone: (Morrow) T/Pay 13,300', prod thru perfs 13,300-373'
 IPF: 568,000 CFCPD & 36 BC, 12/64" ch, GOR NR, Grav (gas) .679, (cond) 50.6, TP 750#
 Comp Info: DST (Mor) 13,134-470', op 2 hrs 30 min, GTS 99 min @ 4500 MFCGPD, 3/4" ch, rec 560' GCM & 310' MCD, 1 hr ISIP 6950#, FP 2668-3174#, 5 hr FSIP 6702#, HP 7400-7400#, BHT 165 deg; Perf (Mor) 13,300-307', 13,354-361', 13,365-373' w/2 SPF; A/1000 gals; F/@ 500 MFCGPD, 1" ch, frac w/16,000 gals & 45,000# sd; F/635 MCF-CPD & 54 BO & 8 BLW/24 hrs, 42/64" ch, TP 290#; F/23 BO/24 hrs, 43/64" ch, TP 290#; F/36 BO & 3 BLW/24 hrs, 12/64" ch, TP 720#, GV 568 MFCGPD; Ran CNL, FDC BHC & DILL logs; BHT 166 deg; C/Marcum.
 Tops: (EL) Rustler 1561', Yates 2832', Queen 3828', San And 4612', Glor 6039', Tubb 7392', Abo 8780', Wolfe 9823', Penn 10,672', Strawn 12,208', Atoka 12,708', Morrow 12,950'
 API No.: 30-025-25409

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Date: 6-29-77 Card No.: 20 rm

SV-025-24131
Co. LEA

POOL VACUUM

STATE N.M. W-7-17-34
KROENLEIN

COMPANY Wolfson Oil Co. - #1-J - Mac State

LOC. 2310' FSL & 1980' FEL Unit J
Sec. 7, T.17-S, R.34-E
4900' RT

ELEV. 4115 GR
4126 KB

PAY STIMULATION

PERF: 4644-
4673

CABING
8 5/8-405-400
4 1/2-4700-150

TOPS
Anhy 1550
Salt 1710
B.Salt 2660
Yates 2820
Queen 3813
Gryb 4300
S.And 4614

SPD. 7-18-72 COMP. 8-11-72

I. P. F. 22 BO, no wtr./24 hrs.,
28/64" ch.

GR. 34. GOR 1200 TP 40 CP pkr
PB 4690.

CONT'D. PAGE 2.

TP 4644
TD 4703
RBD 4690

LEA, N.M.

Wolfson Oil Co. - #1-J - Mac State

W-7-17-34

PAGE 2.

Perf: 15/4644-73; (S.And) (overall); 2000 gal.
acid/4644-73; swb. load w/sli. SO/4644-73;
reA/6000 gal/4644-73; F. 22 BOPD.

LEA COUNTY NEW MEXICO Unit D VACUUM N FIELD

Well: PENNZOIL CO., 1 Gallagher "8" State OWWO Result: OIL DO
 Loc'n: 6 mi NW/Buckeye; Sec 8, T17S, R34E; 660' FNL, 510' FWL of Sec;
 (Orig Pennzoil United, Inc., Cmp 11-8-68 thru (Cisco) Perfs
 11,712-725', OTD 11,825', OPB 11,770'; OWWO & Re-Cmp 8-9-70
 thru (Wolfcamp) Perfs 10,929-939', OTD 11,825', OPB 11,050')

Spud: 6-24-83; Comp: 7-13-83; Elev: 4112 GL; TD: 11,825 CSCO; PB: 10,285
 Casing: 13-3/8" 379'/345sx; 8-5/8" 4312'/490sx; 4 1/2" 11,825'/940sx
 Prod Info: (Wolfcamp), Prod thru Perfs 10,242-430'
 IPP: NO NEW POTENTIAL
 Comp Info: A/1000 gals, BP @10,825; Perf (Wolfcamp) 10,242-244',
 10,247-250', 10,254-258', 10,412-414', 10,418-420', 10,422-
 424', 10,426-430' W/2 SPF, A/3500 gals
 Tops EL: NR
 API No: 30-025-22729



Petroleum Information®
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Date: 8-24-83 Card No.: 15 dm

CO. LEA POOL VACUUM, NW-STATE N.M. P-8-17-34
 OWWO-FR&C WOLF CAMP PAGE 5.
 COMPANY Pennzoil United, Inc. - #1 - Gallagher-State
 "8" ELEV 4120 KB
 LOC. 660' FNL & 510' FWL Unit D
 Sec. 8, T.17-S, R.34-E

PAY STIMULATION		CASING		TOPS	
PERF: 10929-	old	13	3/8- 379- 345	Wolfc	9870
10939	"	8	5/8- 4312- 490		
	"	4	1/2- 11825- 940		
SPD. re-		COMP. 8-9-70			
I. P. .		P. 8.28 BO + 25 BW/24 hrs.			
GR. -	GOR	6080	TP	CP	
Set BP/11,050'. Jet Perf 2 holes/				TP	10,929
10929-930', CONT'D. PAGE 6.				TD	11,825
				PBD	11,050

LEA, N.M. P-8-17-34
 Pennzoil United, Inc. - #1 - Gallagher-State "8" PAGE 6.

Perfs cont'd.: 10931, 10939, 10977, 10978';
 treat w/500 gal. mud acid & swb. dry;
 reA/1500 gal. ret. acid; swb. 5 BO + 72
 BXW; sqz. all perfs w/50 sx cement; DO cement
 thru per. interval.
 rePerf: 2 holes/10929, 10930, 10931, 10938,
 10939'; 500 gal. mud acid; swb. load &
 swb. dry; reA/2000 gal. NE acid + 3000
 gal. ret. acid; P. 8.28 BO + 25 BW/24 hrs.
 (10929-939').

Gr. LEA POOL WILDCAT STATE N.M. P-8-17-34
(CISCO DISCOVERY) KROENLEIN
COMPANY Pennzoil United, Inc. - #1 - Gallagher-State
"8" ELEV. 106 GR
Loc. 660' FNL & 510' FWL
Sec. 8, T.17-S, R.34-E
11,500' RT-Wolcamp

PAY STIMULATION	CASING	TOPS
PERF: 11712-	13 3/8- 379- 345	S. And 4613
11725	8 5/8- 4312- 490	Glor 6018
	4 1/2- 11825- 940	Paddock 6110
	2 3/8- 11675	Tubb 7375
		Abo 8075
		Wolfe 9870
SPD. 8-31-68	COMP. 11-8-68	Penn 11415
		Cisco 11606

I. P. F. 433 BOPD, no wtr., 16/64" ch.
GR. 40.7 GOR 880 TP 800 CP pkr
DST 4891-5020 op. 2 hrs. 15 mins. TP 11,712 (Cisco)
rec. 152' drlg. fluid, 2000' salt TO 11,825
sul. wtr., CONT'D. PAGE 2. PBD 11,770

LEA, N.M. P-8-17-34
PAGE 2
Pennzoil United, Inc. - #1 - Gallagher-State "8"
no oil or gas; FP 366-846; ISIP 1661/1 hr.;
FSIP 1511/2 hrs.
DST 2 6115-6222 op. 1 hr. 15 mins., rec. 120'
drlg. mud; FP 53-85; ISIP 223/1 hr.; FSIP
1127/1 hr.
DST 3 10220-240 op. 1 hr. 15 mins., no blow;
rec. 5' drlg. mud, no shows; FP 43-43;
ISIP 43/1 hr.; FSIP 43/1 hr.
DST 4 10398-440 op. 2 hrs. 45 mins., gas in 15
mins. at 226,000 CFGPD & decr. to 61,200
CFGPD at end; rev. out 62 BO (Gr. 40.),
no wtr.; FP 96-490; ISIP 3920/1 hr.; FSIP
3470/2 1/2 hrs.
DST 5 10741-812 op. 1 hr. 15 mins., weak blow;
died in 5 mins.; rec. 90' mud; FP 65-65;
CONT'D. PAGE 3.

LEA, N.M. P-8-17-34
PAGE 3
Pennzoil United, Inc. - #1 - Gallagher-State "8"
ISIP 131/1 hr.; FSIP 65/1 hr.
DST 6 10842-895 op. 1 hr. 15 mins., very weak
blow 15 mins. & died; rec. 4' mud; FP 23-
23; ISIP 233/1 hr.; FSIP 233/1 hr.
DST 7 10923-945 op. 3 hrs. 10 mins., gas at
25,700 CFGPD, 1/4" ch.; rec. 145' hvy.
O&GCM + 335' free oil (Gr. 47.); FP 65-
109; ISIP 3702/1 hr.; FSIP 3314/3 hrs.
DST 8 10977-991 op. 3 hrs. 15 mins., gas in 33
mins., good blow; decr. to fair blow; rec.
183' free oil, 100' GCM, 400' SW; FP 543-
240; ISIP 3918/1 hr.; FSIP 3874/3 hrs.
DST 9 11336-355 op. 2 hrs. 45 mins., gas in 18
mins., strong blow & decr. to weak blow
at end of test; rec. 136' drlg. mud;
CONT'D. PAGE 4.

P-8-17-34
 LEA, N.M. PAGE 4.
 Pennzoil United, Inc. - #1 - Gallagher-State "8"
 FP 43-43; ISIP 1845/1 hr.; FSIP 215/3 hrs.
 DST/2 11593-630 op. 3 hrs., 15 mins.; rec. 385'
 O&GCM; FP 952-952; ISIP 7028/1 hr.; FSIP
 7010/3 hrs. Spot 500 gal. acid.
 Perf 1 SPF/11712, 11713, 11714, 11715, 11716,
 11720, 11721, 11723, 11724, 11725; 500
 gal. acid/11712-725, F. 274 BO/16 hrs.,
 no wtr.; 16/64" ch. (Cisco)

CO. LEA		POOL VACUUM		STATE N.MEX. KROENLEIN 642	
COMPANY Delfern Oil Co. - #3-A - Lea State				ELEV. 4108	
LOC. 660' FNL & FNL Unit D Sec. 8, Twp. 17, R. 34E					
ACID OR SHOT	CASING RECORD		TOPS		
Acid: 1000 gal.	8 5/8 - 305 - 150		T.Rd.Sd. +29) 3815		
	5 1/2 - 4608 - 250		T.S.A. - 512 4630		
Perf. 2: 1602			T.A. 1540		
			T.S. 1675		
			U.S. 2670		
			T.Y. 2880		
SPD. 6-23-48		COMP. 8-11-48			
I. P. P. 48 BO/24 thru 2" O 4649				SA - 512 57mp	
GR. 34	GOR	TP	CP	TP 4640	
REMARKS				TD 4649L	
				PRO	

CO. LEA		POOL VACUUM		STATE N.MEX. KROENLEIN 643	
COMPANY Delfern Oil Co. - #4 - Lea State				ELEV. 4094	
LOC. 1650 FNL & 330 FNL Unit E Sec. 8, Twp. 17-S, R. 34-E					
ACID OR SHOT	CASING RECORD		TOPS		
Acid: 1000 gals.	8 5/8 - 302 - 150				
	5 1/2 - 4620 - 150				
SPD. 7-24-48		COMP. 8-31-48			
I. P. F. 45 BO/24 thru op. 2" O 4654					
GR.	GOR	TP	CP	TP 4641	
REMARKS				TD 4654 L	
				PRO	

CO. LEA		POOL VACUUM	STATE N. MEX	KROENLEIN 640
COMPANY Delfern Oil Co. - #1-A - Lea-State		Elev. 4113		
Loc. 1980' PSL & PSL (C SE NW) Unit F Sec. 8, Twp. 17-S, R. 34E				
ACID OR SHOT	CASING RECORD		TOPS	
Total Acid:	8 5/8 - 315 - 150		T.A. 1550	
9000 gals.	5 1/2 - 4299 - 750		T.Yates 2880	
	2 - 4720		T.S.A. - 514 4840-4629	
			Down? 4203 3550	
BPD. 10-5-47		COMP. 1-12-48		
I. P. F. 111 BO/8 hrs 1" chk, 2" C. 4720				
OR. 37		GOR 1041	TP-0-200	CHKR 4680
REMARKS CONT'D PAGE #2				
		TP 4673 TD 4723-L PBD SA 109		

K-640

LEA, NEW MEXICO 8-17-34 PAGE #2

Delfern Oil Co. - #1-A - Lea-State

Loc 80 4675-76; TD 4783 had 450' OIH run 2" 4720 w/pkr 4670. 4723 L tstg. TD 450' OIH. Run 2" to 4720 pkr. 4670 trtd 1000 gal. Acid. Swb. 1 1/2 BOPH for 8 hrs. Re-trt 8000 gal. & swb to pits est 5 to 6 BOPH SI 12 hrs & fl. 7 BOPH for 8 hrs & shut it down.

CO. LEA		POOL VACUUM	STATE N. MEX	KROENLEIN 641
COMPANY Delfern Oil Co. - #2-A - Lea-State		Elev. 4109		
Loc. 1980' PSL & PSL Unit K Sec. 8, Twp. 17-S, R. 34E				
ACID OR SHOT	CASING RECORD		TOPS	
Acid: 9000 gals.	8 5/8 - 335 - 150		A. 1350	
	5 1/2 - 4580 - 900		T.S. 1680	
			B. S. 2680	
			T.Y. 2885	
			T.Red Sd 3172 3820 3837	
			T.Wh.L. - 517 4848 4630	
BPD. 5-18-48		COMP. 7-11-48		
I. P. P after acid 54 BOPH				
OR.		GOR	TP	CF
REMARKS Tr. 9500 gals. 4676-4691 swb.				
3 BOPH for 10 hr. thru 2" w/pkr. C 4615				
		TP 4678 TD 4691 L PBD CR-N		

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CLASS DO ELEV GL 4085 L & S

SPD 4-7-74 CMP 5-20-74	FORMATION	DATUM	FORMATION	DATUM
CSG				

8 5/8" at 329' w/175 sx			
5 1/2" at 4690' w/600 sx			
TD 4690' (SADR)	PBD		

CONTR	MGF	OPRS ELEV	4097' GL	PD	4800'	TYPE	RT
-------	-----	-----------	----------	----	-------	------	----

F.R. 3-11-74
(San Andres)
4-10-74 Drlg 2965'
4-17-74 Drlg 4507'
4-24-74 TD 4690'; SI
5-1-74 TD 4690'; Prep RU Pmp
Perf 4622-31' w/14 shots (overall)
Acid (4622-31') 10,000 gals
5-15-74 TD 4690; TO Pmp
5-21-74 TD 4690'; WO Pot
Ppd 15 BO in 24 hrs (4622-31')
5-28-74 TD 4690'; COMPLETE
6-1-74 COMPLETION REPORTED

COUNTY	IEA	FIELD	Vacuum, N.	STATE	NM
OPR	SOUTHERN UNION SUPPLY CO.			API	MN 22198
NO	2	LEASE	Gallagher "8" State	SERIAL	3-4-19 NM
Sec 8, T17S, R34E				MAP	
660' FSL, 660' FWL of Sec Unit M				CO-ORD	
3 mi N & 5 mi W/Buckeye				ELEV	
Re-	11-14-75	Re-	2-18-76	WELL CLASS:	DD
SPD		CRP		FIN	DC
CSG				FORMATION	DATUM
11 3/4" at 350' w/400 sx 8 5/8" at 4145' w/500 sx 5 1/2" at 13,510' w/550 sx				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				TD	13,510' (MSSP)
				PBO	13,400'
IP (Morrow) Perfs 13,181-364' CAOF 1760 MCFCFD. COR 6488; gty (Gas) .6909; (Cond) 50; SIWHP 3347#					
Cactuz #22					
OPR'S ELEV 4104' CL, 4127' KB PO 14,000' RT					

F.R. 11-17-75 OWDD
(Morrow)
(Orig. Monsanto Corp., #1 Gallagher, D&A 9-3-67,
OTD 11,300'; OWDD & D&A 7-19-69 by Pennzoil United,
Inc. as #2 Gallagher "8" State, OTD 11,998')
AMEND FIELD NAME: Formerly reported as Undesignated
Drlg 12,625'
Drlg 13,165'
TD 13,510'; Prep Run 5 1/2" csg
Deepened from 11,998' to 13,510'
TD 13,510'; MICU
Ran 5 1/2" csg
TD 13,510'; PBD 13,400'; Tstg
Perf (Morrow) @ 13,181', 13,231', 13,236', 13,238',
13,240', 13,242', 13,309', 13,311', 13,314',
13,316', 13,318', 13,360', 13,362', 13,364' w/1 SPI
3-4-19 NM

LEA Vacuum, N. NM
SOUTHERN UNION SUPPLY CO. 2 Gallagher "8" State Page #2
Sec 8, T17S, R34E

1-20-76 Continued
Acid (13,181-364') 8000 gals
2-13-76 TD 13,510'; PBD 13,400'; SI PBU
3-8-76 TD 13,510'; PBD 13,400'; WO OCC Pot
Frac (13,181-364') 30,000 gals + 33,000# sd
+ 11,000# glass beads
CAOF 1760 MCFGPD (13,181-364')
3-22-76 TD 13,510'; PBD 13,400'; Complete
(Morrow) FOUR POINT GAUGES:
Flwd 455 MCFGPD, 1.25" orifice, 60 mins, TP
2520#
Flwd 622 MCFGPD, 1.25" orifice, 60 mins, TP
2190#

3-4-19 NM

3-22-76 Continued
 Flwd 912 MCFGPD, 1.25" orifice, 60 mins, TP
 1550#
 Flwd 1414 MCFGPD, 1.25" orifice, 60 mins, TP
 850#
 LOG TOPS: Atoka 12,566', Morrow Lime 12,928',
 Morrow Clastics 13,102', Mississippian 13,472'
 3-27-76 COMPLETION ISSUED
 3-4-19 NM
 IC 30-025-70095-75

Co. LEA POOL UNDES- STATE N.M. P-8-17-34
 OWDD KRÖENLEIN
 COMPANY Pennzoil United, Inc. - #2 - Gallagher State
 "8" (fmly. Monsanto Co. - #1 - Galla-ELEV. 4118 DF
 LOC. 660' FSL & FWL Unit M gher)
 Sec. 8, T.17-S, R.34-E

PAY STIMULATION		CASING		TOPS	
PERF:	old	11 3/4-	350- 450	Anhy	1560
	"	8 5/8-	4145- 500	Yates	2826
				Queen	3825
				S.And	4610
				Glor	6045
				Tubb	7395
SPD. re-	COMP.	7-20-69		Abo	8077
I. P.	P & A			Wolfe	9715
				Hueco	10105
				Bo C	11071
GR.	GDR	TP	CP	Penn	11390
OTD 11,300'. DST 11700-849 op..				TP	
1 hr. 15 mins., rec. 30' drlg.mud,				Nrd 11,998	
no shows; CONT'D. PAGE 2.				PBD	

LEA, N.M. P-8-17-34
 Pennzoil United, Inc. - #2 - Gallagher State "8" PAGE 2.
 FP 1298-1427; ISIP 1822/2 hrs.; PSIP 1644/
 2 hrs.

Co. LEA		POOL WILDCAT	STATE N.M.	M-8-17-34
COMPANY Monsanto Co. - #1 - Gallagher		KROENLEIN		
LOC.	660' FSL & FWL Unit M	ELEV. 4118 DF		
	Sec. 8, T. 17-S, R. 34-E	4104 GR		
	11,500' RT-Wolfcamp & Cisco			
PAY STIMULATION	CASING	TOPS		
PERF:	11 3/4- 350- 450	Glor. 6045		
	8 5/8- 4145- 500	Abo 8077		
		Wolfc 9715		
		Hueco 10105		
		Bo "C" 11071		
		Anhy. (EL) 1560		
		Yates 2826		
		Queen 3825		
		S. And 4610		
		Tubb 7395		
		Wolfc 9760		
		TD 11,300		
SPD.	7-24-67	COMP.	9-3-67	PBD
I. P.	P & A	1/4 hrs.		
GR.	GOR	TP	CP	
DST 11185-11260 op. 1 hr., weak				
blow, 1000' WB, rec. 910' WB; FP				
492-479; ISIP 973/1 hr.; FSIP 4381				

LEA COUNTY NEW MEXICO VACUUM FIELD

Well: SOUTHERN UNION SUPPLY CO. 6 Lea "A" State Result: OIL DO

Loc'n: 5 mi NW/Buckeye, 660' FSL 1980' FWL Sec 8-17S-34E.

Unit N

Spud: 3-28-77; Comp: 6-1-77; Elev: 4091' grd, 4103' KB; TD: 4800' San And; PB: 4735'

Casing: 8 5/8" 500' 7400 sx, 5 1/2" 4800' 1950 sx

Prod Zone: (San And) T/Pay 4656', prod thru perfs 4646-66'

PP: 15 BOPD, GOR 2333-1, Grav 36.5

Comp Info: Crd (San And) 4655-88', rec 33', no desc; Perf (San And) 4656-66' w/2 SPF; A/10,000 gals; P/12 BO & 80 BLW/24 hrs; P/15 BO/24 hrs; ran GRDL, FRXL & DENL logs; C/Cactus.

Tops: (EL) Rustler Anhy 1554', Salt 1665', Base Salt 2672', Yates 2880', Seven Rivers 2970', Queen 3841', Grayb 4324', San And 4618'

API No.: 30-025-25477

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Date: 6-22-77

Card No.: 10 mm

LEA COUNTY NEW MEXICO VACUUM N. FIELD

Well: SOUTHERN UNION EXPL 3 Gallagher "8" State "OWWO" Result: OIL DO

Loc'n: 5 mi NW/Buckeye; Sec 8-17S-34E; 660 FSL 1980 FEL of Sec

(Orig. Cmp 5-30-77 thru (Morrow) Perfs 13,413-13,460',

OTD 13,535, OPB 13,478) Unit O

Spud: 5-28-85; Comp: 6-4-85; Elev: 4105' Grd, 4128' KB; TD: 13,535 Mssp;

PB: 9462'

Casing: 13-3/8" 362' / 400sx; 8-5/8" 4755' / 2100sx; 5 1/2" 13,535' / 1000sx;

2-3/8" 9045'

Prod Zone: (Abo) Prod thru perfs 8846-8984'

IPP: 38 BOPD + 75 BW, 24 hr test, GOR (NR), gty 34

Comp Info: Ran CNL, FDC, DLL; PB to 9462'; Perf (Abo) 8846-

8860', 8874-8894', 8900-8908', 8918-8920', 8936-8944', 8956-

8960', 8974-8984' w/1 SPF, A/7500 gals (15% HCL), A/7500 gals

(15% HCL), Frac/58,360 gals + 67,000# sd;

6/85 510/460

7/85 554/367

8/85 488/160

9/85 452/150

10/85 456/10

Tops: (NR)

API No: 30-025-25326

Oct. 85: 456 Oil } 29 days

10 wk.

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Date: 7-3-85 Card No.: 13

LEA COUNTY NEW MEXICO VACUUM, N. FIELD

Well: SOUTHERN UNION SUPPLY CO. 3 Gallagher "8" State Result: GAS DG

Loc'n: 5 mi NW/Buckeye, 660' FSL 1980' FEL Sec 8-17S-34E.

Unit O

Spud: 9-23-76; Comp: 5-30-77; Elev: 4105' grd, 4128' KB; TD: 13,535' Miss; PB: 13,478'

Casing: 13 3/8" 358' / 400 sx, 8 5/8" 4755' / 2100 sx, 5 1/2" 13,535' / 1000 sx

Prod Zone: (Morrow) T/Pay 13,413', prod thru perfs 13,413-460'

IPP: 250,000 CFGPD, & 40 BC, 10/64" ch, GOR NR, Grav (gas) NR, (Cond) 52, SITP 3750#

Comp Info: Perf (L/Morrow) 13,288-302', 13,310-313', 13,376-383', 13,413-420', 13,450-460

sqd perfs 13,288-383'; A/10,000 gals; frac w/40,000 gals & 26,000# sd; ran DILL, CNL

& FDC logs; C/Cactus; BHT 183 deg.

Tops: (EL) Rustler Anhy 1597', Salt 1765', Base Salt 2702', Yates 2907', Seven Rivers 3010',

Queen 3803', Grayb 4375', San And 4667', Glor 6094', Paddock 6180', Blinbry 6832',

Tubb 7488', Drinkard 7922', Abo 8101', Wolfe Sh 9726', Penn 10,856', Cany 11,940',

Strawn 12,218', Atoka 12,620', Miss 13,492'

API No.: 30-025-25326

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Petroleum Information® CORPORATION
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Date: 6-15-77 Card No.: 15 rm

COMPANY B.T.A. Oil Producers - #1 - Union		ELEV. 4107
LOC 660' FNL & 1980' FWL Unit C Sec. 17, T.17-S, R. 34-E		
ACID OR SHOT	CASING RECORD	TOPS
Perf: 20/4667-77 3000 acid	8 5/8- 390- 150 5 1/2-4910- 300	Anhy. 1565 Salt 1576 B.Salt 2680 Queen 3838 S.And 4625
SPD. 10-23-61 COMP. 11-22-61		
I. P. F. 47 BO + 2 BW/24 hrs., 18/64" ch.		TP 4667
GR. 34.2 GOR - TP 100 CP -		TD 4910
REMARKS Core 4575-4651 rec. 76' dolo. scat. bldg. oil.		FOO 4891

17S-34E; Sec 17, Unit C
660' FN&WL

Lea County

(Vacuum-
San Andres)

BTA Oil Producers # 1 Union

OIL

Spud: 10-22-61; Comp: 11-22-61; Elev: 4093' GR; TD: 4910';
FBTD: 4890'

Casing: 8 5/8" 400'/150sx; 5 1/2" 4910'/300sx; 2 3/8" 4661'

Prod Zone: San Andres perfs 4667-77'

IFF: 47 bbls oil, 2 bbls wtr, 24 hrs, 18/64" ch, TP 100#

Comp Data: A/3000 gals

Tops: anhy 1565', salt 1676', salt base 2680', Queen 3838',
San Andres 4625'. Pay @ 4667'.

NEW MEXICO OIL LOG
December 11, 1961

Sec. 18-T17S-R34E

CD. LEA	POOL WILDCAT	STATE N. MEX.	KROENLEIN 771
COMPANY H.P. TAUBMAN - #1 - Sun-State		Elev. Est 4122 D	4112C
LOG. 660 FNL & FNL FEL Unit A			
Sec. 18, Twp. 17-S, R. 34E			
ACID OR SHOT	CASING RECORD	TOPS	
	12 - 20 - set 8 - 1683 - 200	T.A. 1540 T. Yates 2830 T. BrLine 4310 SA - 405 by Symp.	
BPD. 9-27-43	COMP. 1-3-44		
I. P. D&A			
GR. GOR TP CP		TP 5050	
REMARKS SLN 4926-31 SW 4931-34, 5031-50		TD 5050 PRD	

LEA COUNTY NEW MEXICO WILDCAT

Well: SOUTHERN UNION SUPPLY CO. 1 Pennzoil State Result OIL WFD

Loc'n: 5 1/2 mi NW/Buckeye, 1980' FNL 660' FEL Sec 18-17S-34E Unit H

Spud: 3-14-76; Comp: 8-9-76; Elev: 4108' grd, 4128' KB; TD: 13,545' Miss; PB: 13,060'

Casing: 13 3/8" 350' 425 sx, 8 5/8" 4750' 1400 sx, 5 1/2" 13,545' 1450 sx

Prod Zone: (Penn) T/Pay II, 095', prod thru perfs II, 095-163'

IPF: 315 BOPD, 1/4" ch, GOR 619-1, Grav 41, TP 300#

Comp Info: Perf (Morrow) 13, 198-202', 13, 246-254', 13, 303-305'; A/2000 gals; frac w/ 23,000 gals & 48,000# sd; Non-Commercial; sqzd w/150 sx; Perf (Penn) II, 095-104', II, III-III', II, 122-125', II, 154-163'; A/4000 gals; F/506 BOPD, 1/4" ch, TP 500#; ran DILL & CNDL logs; C/Marcum Drlg.

Top: (EL) Salt 2673', Yates 2833', Queen 3832', Grayb 4349', San And 4639', Glorieta 6086', Abo 8150', Wolfe 10,080', Cisco 10,846', Cary 11,400', Strawn 12,190', Atoka 12,578', Miss 13,438'

API No.: 30-025-25256

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Date: 9-1-76 Card No.: 14 mm

COUNTY LEA	FIELD Wildcat	STATE NM
OPR SOUTHERN UNION SUPPLY CO.	API 30-025-25256	
NO 1 LEASE Pennzoil State	SERIAL 8-4-14 NM	
Sec 18, T17S, R34E	MAP	
1980' FNL, 660' FEL of Sec	CO-ORD	
5 1/2 mi NW/Buckeye	ELEV 4122 D	4112C
3-14-76 CMP 8-9-76	WELL CLASS: D	FIN WFD
13 3/8" at 350' w/425 sx	FORMATION	DATUM
8 5/8" at 4750' w/1400 sx		
5 1/2" at 13,545' w/1450 sx		
	TD 13,545' (MSSP)	PB 13,060'

IP (Pennsylvanian) Perfs 11,095-163' F 315 BOPD. Pot based on 24 hr test.thru 1/4" chk. GOR 619; gty 41; TP 300#

CONTR Marcum OPR'S ELEV 4108' GL, 4128' KB PD 13,750' RT

F.R. 3-15-76
(Morrow)
8-28-76 AMEND FIELD NAME: Formerly reported as Undesignated
3-19-76 Drlg 3255'
3-23-76 Drlg 4085'
3-30-76 TD 4750'; Prep Drill
4-5-76 Drlg 7026'
4-12-76 Drlg 8926'
4-19-76 Drlg 10,980'
4-27-76 Drlg 11,894'
5-3-76 Drlg 12,503'
5-11-76 Drlg 13,177'
5-19-76 TD 13,545'; Prep Log

8-4-14 NM

LEA Wildcat NM
SOUTHERN UNION SUPPLY CO. 1 Pennzoil State Page #2
Sec 18, T17S, R34E

6-7-76 TD 13,545'; WOCU
6-21-76 TD 13,545'; Tstg
Perf (Morrow) 13,198-202', 13,246-254', 13,303-305'
Acid (13,198-305') 2000 gals
Frac (13,198-305') 28,000 gals + 48,000# sd
7-27-76 TD 13,545'; SI
8-3-76 TD 13,545'; Prep Sqze
8-10-76 TD 13,545'; PBD 13,060'; Tstg
Non Commercial (13,198-305')
Sqzd (13,198-305') w/150 sx
Perf (Pennsylvanian) 11,095-104', 11,111-114',
11,122-125', 11,154-163'
Acid (11,095-163') 4000 gals

8-4-14 NM

8-16-76 TD 11,545'; PBD 13,060'; WOSP
Flwd 506 BOPD thru 1/4" chk, TP 500# (11,095-163')
8-23-76 TD 11,545'; PBD 13,060'; Complete
Pennsylvanian Discovery, No Suggested Field Name
LOG TOPS: Salt 2673', Yates 2833', Queen 3832',
Grayburg 4349', San Andres 4639', Glorieta 6086',
Abo 8150', Wolfcamp 10,080', Cisco 10,846',
Canyon 11,400', Strawn 12,190', Atoka 12,578',
Mississippian 13,438'
LOGS RUN: DILL, CNDL
8-28-76 COMPLETION ISSUED

8-4-14 NM
IC 30-025-70067-76