

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 Ogollala 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

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

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

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

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

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 sx.
TOC Surface feet determined by circulation
Hole size 17 1/2"

Intermediate Casing None

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

Long string None presently - will be installed during re-

Size 5 1/2 " Cemented with 1500 sx.
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'

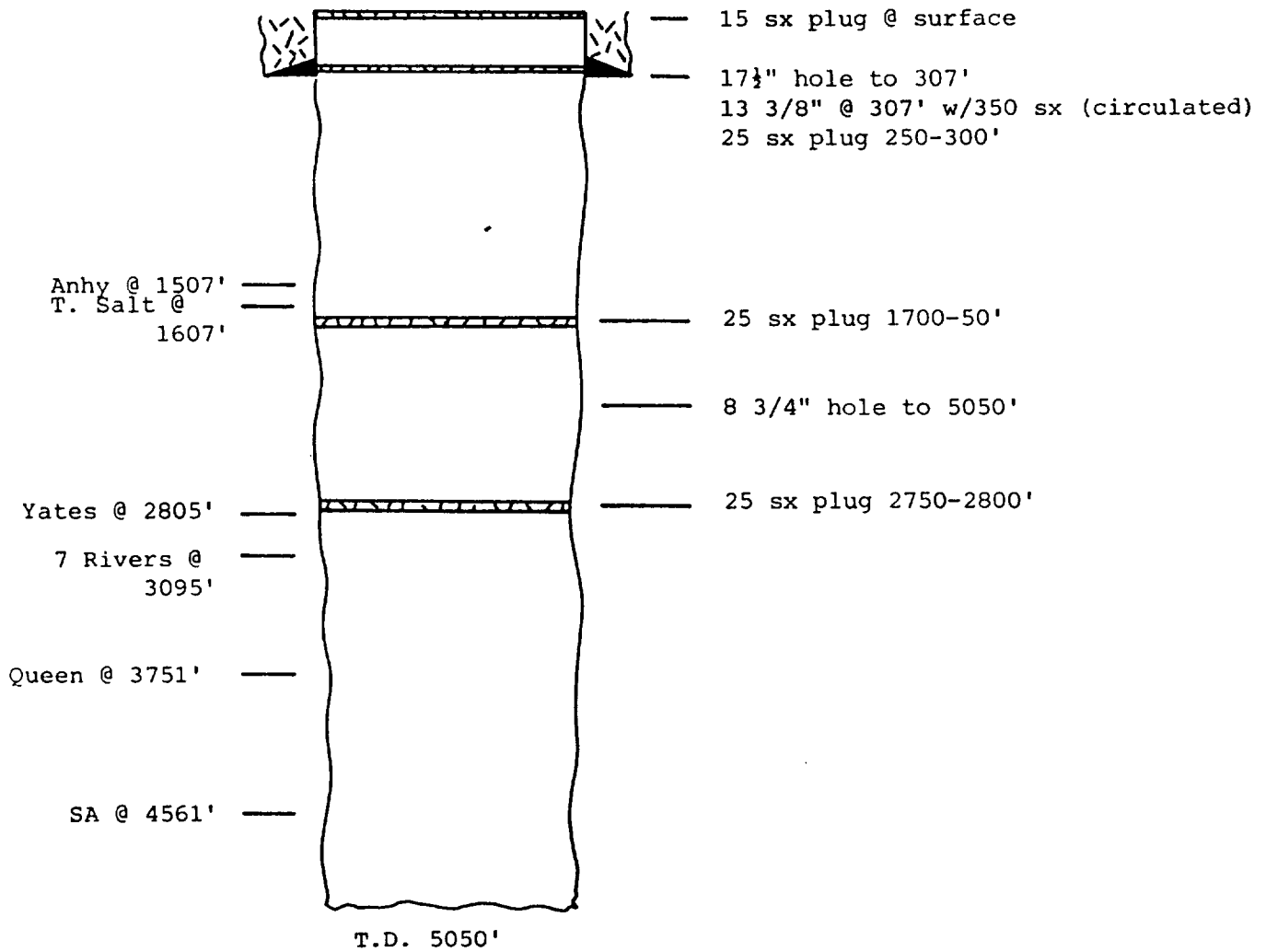
TABULATION
State 197 #3
Wells Within Area of Review

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 BWPD. 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'.

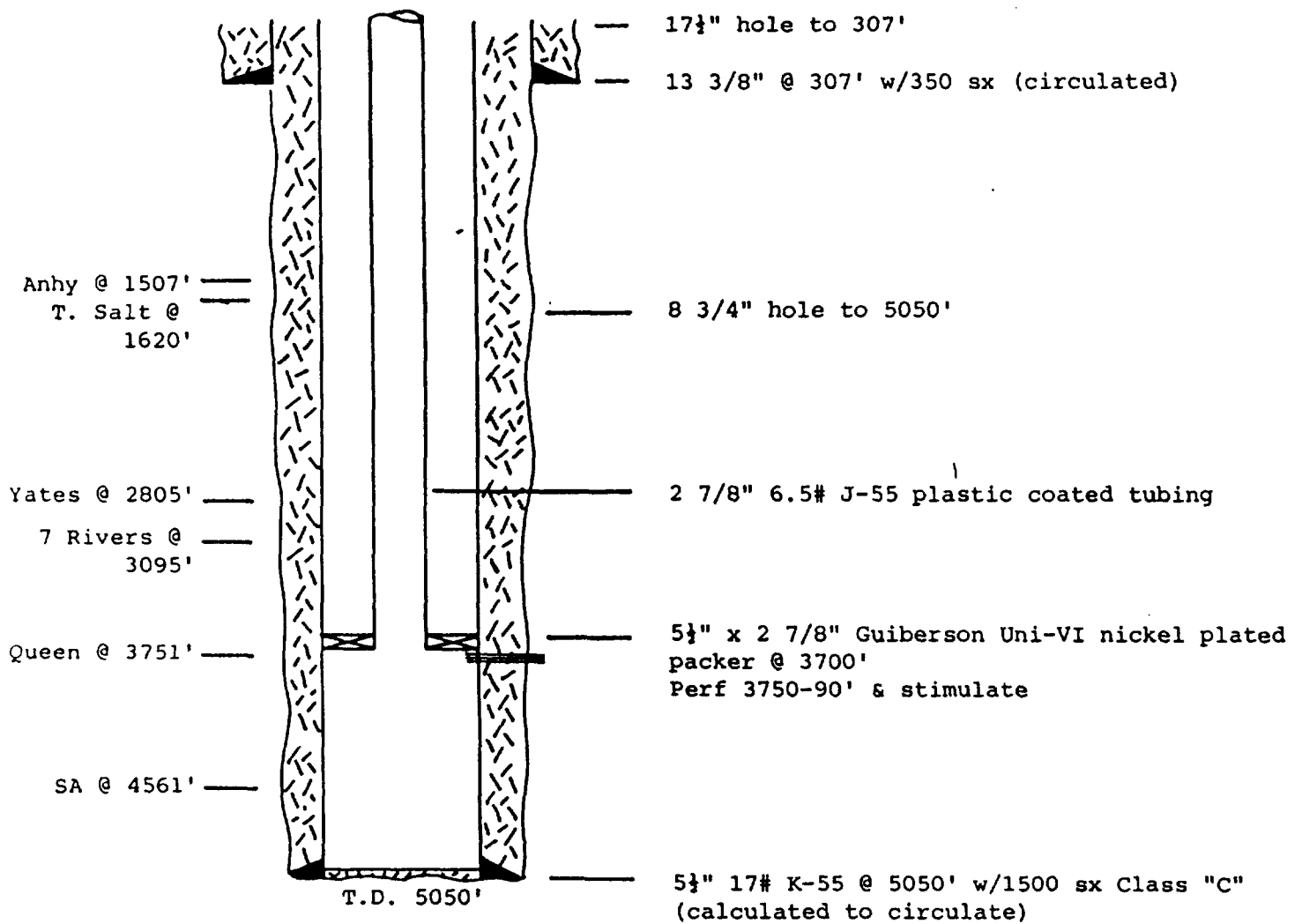
State 197 #3
Sec. 6-17S-34E
1980' FNL & 1762.5' FWL
Elevation 4130' GL
Spud Date: 3-19-57
Compl. Date: 4-57

PRESENT WELL CONDITION

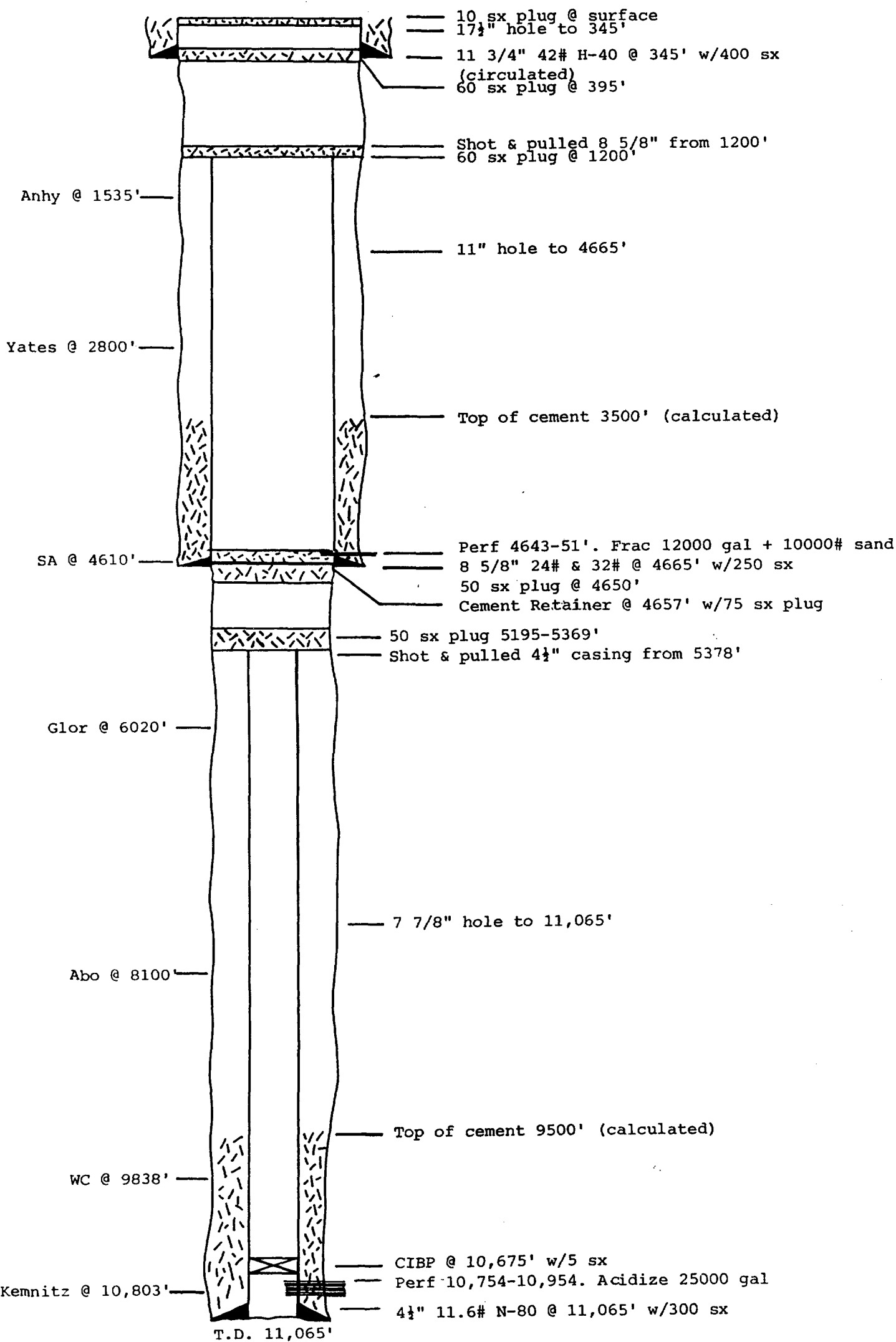


State 197 #3
 Sec. 6-17S-34E
 1980' FNL & 1762.5' FWL
 Elevation 4130' GL

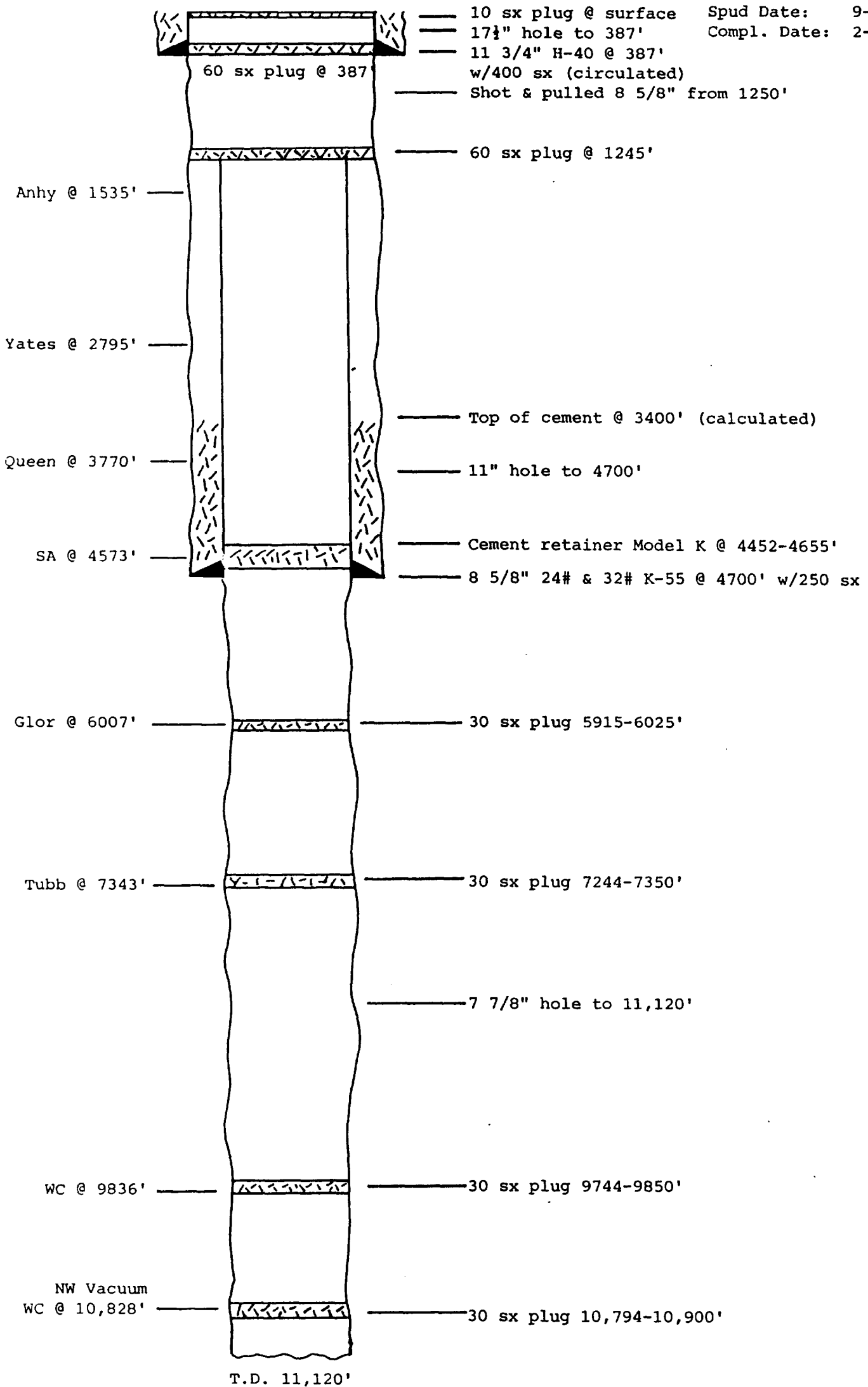
PROPOSED DISPOSAL WELL



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' KE
 Spud Date: 9-20-73
 Compl. Date: 2- 4-74



LOCATION

THE WESTERN COMPANY

YOUR EXT. NO.

ANALYSIS NO.

WATER ANALYSIS

GENERAL INFORMATION

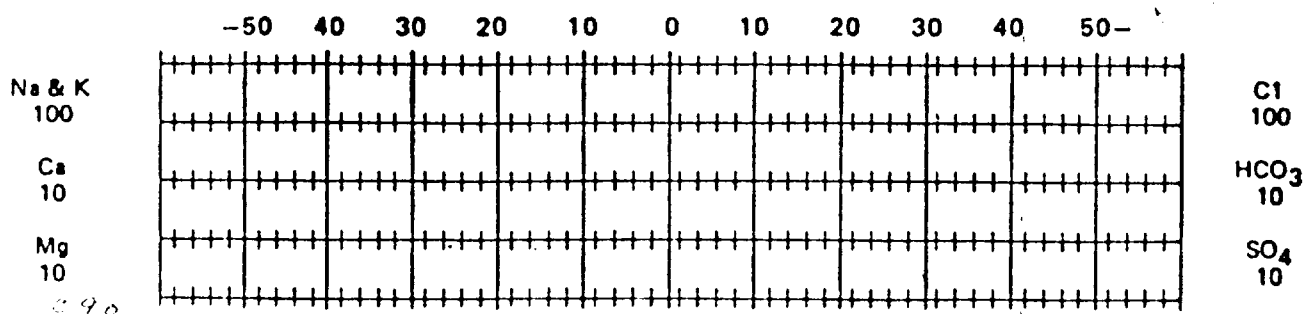
OPERATOR <i>Yates</i>	DATE SAMPLED
WELL <i>Hoover ADR SJ #1</i>	DATE RECEIVED <i>3-26-86</i>
FIELD	SUBMITTED BY <i>Ray Stoll</i>
FORMATION	WORKED BY <i>David Lakin</i>
COUNTY	SAMPLE DESCRIPTION:
STATE	
DEPTH	

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY <i>1.220</i> AT <i>72</i> °F	TOTAL DISSOLVED SOLIDS _____ PPM
pH <i>6.5</i>	RESISTIVITY <i>0.05</i> <i>at 72</i> PPM
IRON <i>Very Faint / Faint</i>	SULFATE <i>2500</i> PPM
HYDROGEN SULFIDE <i>NONE</i>	BICARBONATE <i>366</i> PPM
HARDNESS <i>80000</i>	CHLORIDE <i>180000</i> PPM
CALCIUM <i>8006</i>	SODIUM CHLORIDE <i>296100</i> PPM
MAGNESIUM <i>14580</i> PPM	SODIUM _____ PPM
SODIUM & POTASSIUM _____ PPM	POTASSIUM <i>-0-</i> PPM
PHOSPHATE _____	<i>0 % KCL</i>

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	<u>0.065 @ 68°</u>	<u>10+ @ 68°</u>	
Specific Gravity	<u>1.10</u>	<u>1.001</u>	
pH	<u>6.8</u>	<u>7.0</u>	
Calcium (Ca)	<u>7.992</u>	<u>42</u>	*MPL
Magnesium (Mg)	<u>1.348</u>	<u>76</u>	
Chlorides (Cl)	<u>86,000</u>	<u>200</u>	
Sulfates (SO ₄)	<u>Heavy</u>	<u>Nil</u>	
Bicarbonates (HCO ₃)	<u>153</u>	<u>183</u>	
Soluble Iron (Fe)	<u>Nil</u>	<u>Nil</u>	
.....			
.....			
.....			

Remarks:

*Milligrams per liter

Rocky Chambers
Respectfully submitted,

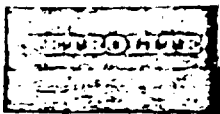
Analyst: Rocky Chambers - Field Engineer

HALLIBURTON COMPANY

cc:

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	4
9. Chlorides (Cl)	61,334	1,728
10. Sulfates (SO ₄)	500	10
11. Calcium (Ca)	16,800	840
12. Magnesium (Mg)	3,159	259
13. Total Hardness (CaCO ₃)	55,000	
14. Total Iron (Fe)	80 ppm	
15. Barium (Qualitative)		
16. Strontium		

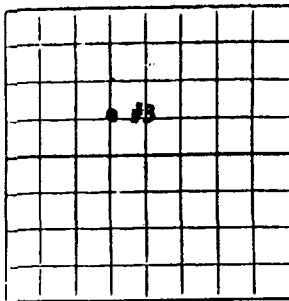
*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04	4	324		
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		

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

State 197

(Company or Operator)

(Lease)

Well No. 2 in SE $\frac{1}{4}$ of NE $\frac{1}{4}$ 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 Gaskel Drilling Company, Inc.

Address Fort Worth, Texas

Elevation above sea level at Top of Tubing Head 6130' 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 SHOE	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	Red 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: FHB, HFD, File

Dent Cleaned Out

1 ORD 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.	<u>1507</u>	T. Devonian	T. Ojo Alamo
T. Salt	<u>1620</u>	T. Silurian	T. Kirtland-Fruitland
B. Salt		T. Montoya	T. Farmington
T. Yates	<u>2805</u>	T. Simpson	T. Pictured Cliffs
T. 7 Rivers	<u>3095</u>	T. McKee	T. Menefee
T. Queen	<u>3751</u>	T. Ellenburger	T. Point Lookout
T. Grayburg		T. Gr. Wash.	T. Mancos
T. San Andrea	<u>4560</u>	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
(Date)

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

NO. OF COPIES RECEIVED	
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SANTA FE	
FILE	
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

7. Unit Agreement Name
8. Farm or Lease Name
State "B"

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

9. Well No.	1
10. Field and Pool, or Wildcat	Vacuum Grayburg SanAndr

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

12. County	Lea
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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								25. Was Directional Survey Made	
4643' - 4651' San Andres								No	
26. Type Electric and Other Logs Run								27. Was Well Cored	
GRN, ML								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					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	4516'	4417'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
4643' - 4651' with 16 3/8" holes	DEPTH INTERVAL
	4643' - 4651'
	AMOUNT AND KIND MATERIAL USED
	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 Drilg & Prod. Manager DATE 3-8-74

NO. OF COPIES RECEIVED	
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ILE	
S.G.S.	
AND OFFICE	
PERATOR	

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

TYPE OF WELL

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

7. Unit Agreement Name

8. Farm or Lease Name
State "B"

Name of Operator
H. L. Brown, Jr.

9. Well No.
1

Address of Operator
309 Midland Tower, Midland, Texas 79701

10. Field and Pool, or Wildcat
Vacuum Grayburg San An

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	AMOUNT AND KIND MATERIAL USED		
				4643' - 4651'	12,000 gallons 3% acid and 10,000# sand.		

PRODUCTION

First Production 12-3-73	Production Method (Flowing, gas lift, pumping - Size and type pump) Pump	Well Status (Prod. or Shut-in) Producing
-----------------------------	---	---

Date of Test 12-6-73	Hours Tested 24	Choke Size -----	Prod'n. For Test Period -----	Oil - Bbl. 5-1/2	Gas - MCF TSTM	Water - Bbl. 0	Gas-Oil Ratio ----
-------------------------	--------------------	---------------------	----------------------------------	---------------------	-------------------	-------------------	-----------------------

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate -----	Oil - Bbl. 5-1/2	Gas - MCF TSTM	Water - Bbl. 0	Oil Gravity - API (Corr.) 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

NO. OF COPIES RECEIVED	
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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 _____	7. Unit Agreement Name
b. TYPE OF COMPLETION	NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Plug & Abandon	8. Farm or Lease Name
2. Name of Operator	H. L. Brown, Jr.	9. Well No.
3. Address of Operator	309 Midland Tower, Midland, Texas 79701	10. Field and Pool, or Wildcat
4. Location of Well	UNIT LETTER M LOCATED 330 FEET FROM THE West LINE AND 990 FEET FROM THE S outh LINE OF SEC. 6 TWP. 17 S RGE. 34 E NMPM	NW Vacuum Wolfcamp
15. Date Spudded	9-20-73	12. County
16. Date T.D. Reached	10-31-73	Lea
17. Date Compl. (Ready to Prod.)		
18. Elevations (DF, RKB, RT, GR, etc.)	4136' GL	
19. Elev. Casinghead	4136'	
20. Total Depth	11,120'	
21. Plug Back T.D.	4650'	
22. If Multiple Compl., How Many		
23. Intervals Drilled By	Rotary Tools 0 - TD	
24. Producing Interval(s), of this completion - Top, Bottom, Name	None	25. Was Directional Survey Made
26. Type Electric and Other Logs Run	Compensated Neutron Log, DUAL Induction Laterolog	No
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#	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	SIZE DEPTH SET 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 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 2795 (+1353)	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3770 (+378)	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. Wolfcamp 9836 (-5688)	T. NW Vacuum Wolfcamp	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:

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

4. Type of Service:

☒ Registered
☐ Certified
☐ Express Mail

☐ Insured
☐ COD

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

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
☐ Certified
☐ Express Mail

☐ Insured
☐ COD

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:

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

4. Type of Service:

☒ Registered
☐ Certified
☐ Express Mail

☐ Insured
☐ COD

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

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:

Tenneco Oil Co.
7990 IH 10 West
San Antonio, TX 78230
ATTN: Rex Bourland

4. Type of Service:

☒ Registered
☐ Certified
☐ Express Mail

☐ Insured
☐ COD

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

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 ☐ Insured ☐ Certified ☐ COD ☐ Express Mail

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 ☐ Insured ☐ Certified ☐ COD ☐ Express Mail

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 ☐ Insured ☐ Certified ☐ COD ☐ Express Mail

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 FIELD LOCATION WELL COMPANY	LEA	COMPANY	SINCLAIR OIL & GAS COMPANY
	SEAMAN AREA	WELL	STATE 197 #3
	1973	FIELD	SEAMAN AREA
	1973	LOCATION	SEC. 6-17S-34E
	1973	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
		FLING No.	
RUN NO.			
Date	4-20-57		
Depth Reference	G. 10' Below KB		
First Reading	5048		
Last Reading	48		
Footage Measured	5000		
Max. Depth Reached	5049		
Bottom Driller	5030		
Maximum Temp. °F.	100		
Mud: Nature	Salt Gel		
" Density	1		
" Viscosity	4		
" Resistivity	0.6		
Casing Size & Weight	13 3/8 to 312		
Open Hole	8 3/4 to TD		
Fluid Level			
Recording Speed (ft/hr)	2000 & 4000		
Sensitivity Tap	GA) 300 (N) 400		
Time Constant	2-1		
Panel	GRP-C #25M		
Op. Rig Time	3 Hrs.		
Sonde Size & Type	3 5/8"		
Truck No.	1762-Hobbs		
Observer	Mahaney		
REMARKS: CALIBRATION BACKGROUND CPS TEST SOURCE CPS GALV. INCREASE DIVISIONS PANEL SENS. TAP FOR CAL.			
GAMMA RAY 80 450 100 400			
NEUTRON 4 240 100 400			
Sonde Decentralized			

Reproduced By
West Texas Electrical Log Service

Dallas 2, Texas

REFERENCE A6372D

COMPLETION RECORD

SPUD DATE

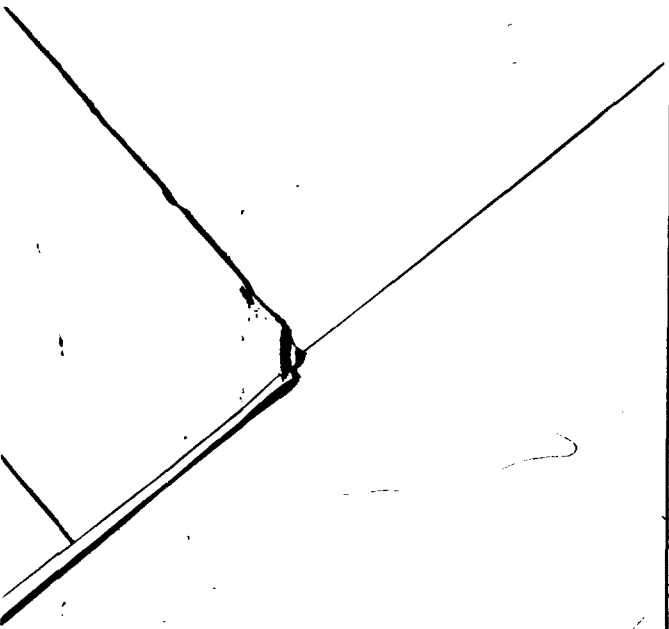
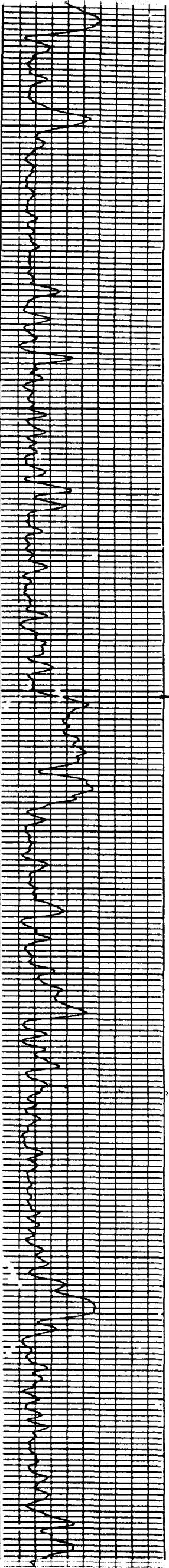
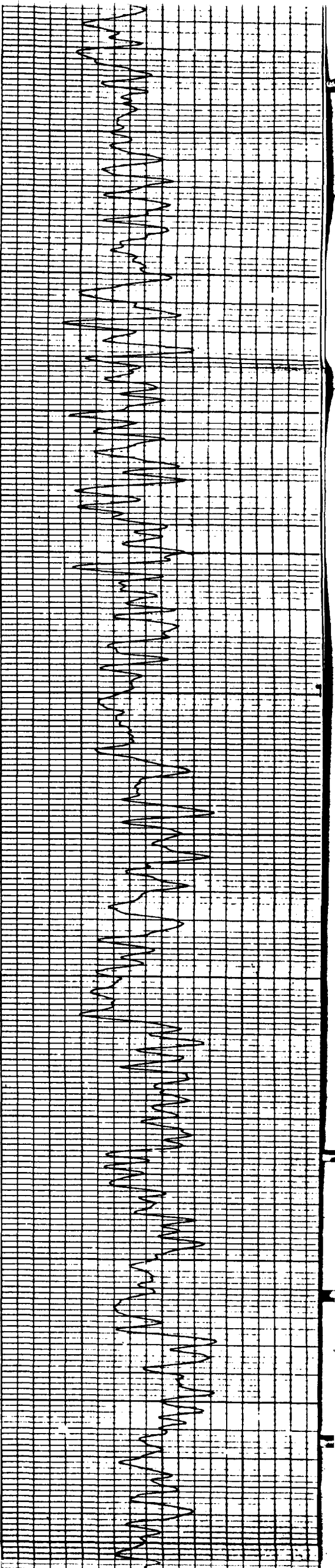
COMP DATE

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 91-4).	Unit I	
Spuds: 6-18-57; 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: Crd 10,912-921', rec 9' blk ch 4 sh, 1' 11 & sh; Perf 10,838-855'; A/300 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 BO & WCM, rec 20' 20' & 20' oil below sub, FP 2370-3520#, SIP 5112#/45 min; Perf 84/10,838-855' & 150/10,866-896'; eqd; Perf 150/10,772-804' & 90/10,811-829'; A/3000 gals. Tops: Not available		
Date: 4-16-58 Card No: 25 NM 08		

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: 6-18-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; PB: 10,834' Casing: 13 3/8" 364'/400 sz, 8 5/8" 4536'/1500 sz, 5 1/2" 10,980'/270 sz Prod Zone: T/Pay 10,772'; Prod thru perfs 10,772-10,896' IFF: 312 BOPD thru 14/64" ch, Grav 42 Comp Info: Perf 160/10,772-804', 90/10,811-829', 84/10,838- 855', 150/10,866-896'; A/3000 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 BOWEN, rec below sub 20 SW & 30' oil, FP 2370-3520#, SIP 5112#/45 min Tops: Not available		
Date: 10-2-57 Card No: 25 NM 08		

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' FSEELs 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 Tops: (L.I.) Yates 2748', Queen 3675', San And 4480', Glor 5932', Tubb 7188', Abo 7945', Wolfe 9604'		
Date: 2-22-61 Card No: 14 NM 11b		

LEA COUNTY NEW MEXICO KENNITZ-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: 11,587';
Casing: 13 3/8" 374' / 400 sx, 9 5/8" 4547' / 1167 sx, 8 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,
TP 3104
Comp Info: Perf 28/10,720-727' & -8/10,796-808' EST 10,700-
844', op 3 hrs, gas in 82 min, rev out WB, 2952', oil & 210'
HOGGM, FP 2240-2500', SIP 3165-2515' / 15 min; DST 11,400-
843', op 90 min, rec 915' WB & 842' HOGGM, 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'.

Date: 7-9-58 Card No.: 15 NM po

LEA COUNTY NEW MEXICO KENNITZ
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 0
Spud: 11-15-82; Comp: 3-19-84; Elev: 4153' Grd, 4177' DF; TD: 13,485'
Miss 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
P(i) Petroleum Information* Date 5-16-84 Card No 48 1f
CORPORATION
A Subsidiary of A.C. Nielsen Company

LEA COUNTY NEW MEXICO KENNITZ-WOLFC
Well: PHILLIPS PETR. CO. #2-A New Mexico Result: D&A
Loc'n: 25-16S-33E, 661' FSL 1980' FEL of Sec.
Unit 0
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
TP: None
Comp Info: DST 10641-835', op 30 min, rec 2252' WB, 3 gals oil
& 4120' SC&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 2558' WB, 5526' SGCM & 644' GCSW, FP 1225-1585', SIP
2975' / 15 min; C/Company Tools
Tops: (EL) Abby 1502', Yate 2756', Queen 3997', San And 4503',
Glor 5950', Tubb 7206', Abo 7966', Wolfo 9644', K Pay 10,813',
Seaman 11,536'.

Date: 9-17-58 Card No.: 16 NM eb

12A

LEA COUNTY NEW MEXICO WILDCAT
 Well: SHELL OIL CO, #1-HT State Unit P Result: NW CL DSC.
 Loc'n: 14 mi E/Tatum; NW/part County; Sec 25-16S-33E, 660' FSEELS Sec; 1-1/2 mi E-SE/
 Hightower fld, separated by 2620' failure; 1 mi SW/depleted Penn producer.
 Gaud: 5-1-65; Comm: 8-13-65; Elev: 4234' DF; TD: 12,355'; NTD: 10,109'
 Casing: 13-3/8" 337'/300 sx; 9-5/8" 4142'/400 sx; 5-1/2" 10,333'/1100 sx
 100' 100' (Penn), T/Pav 5848', Prod thru Peris 5848-5863'
 15' 15' BOPD, + 2 bbls SW, 14/64" ch, Grv 44.9, GCR 1056-1, TP 1150'
 Comp Infor Cnd 5855-9905', rec 50' being 15.5 li w/fluor & odor, cruce bldg OSG, 1.5
 15, NS, 5' sh, 28' dnse li; DST 9853-9905', op 2 hrs & 6 mins, GTS 3 mins, OTS 34
 mins, F/to pits 36 mins, F/58 RO/1 hr & 30 mins, 1/2" ch, Grv 44, TP 1150', GCR
 1140-1, rev out 13.75 BO, FP 265-2624, PSIP 3632#/1 hr & 30 mins, PSIP 3607#/2
 hrs; DST 10,185-264' (GP), op 27 mins, oke leaked, rec 2160' MGCN, FP 539-4984, BIP
 3804#/1-1/2 hrs, PSIP failed: DST 12,533-241', op 2 hrs & 3 mins, rec 101' 2110
 1015 lrv suit wrt, FP 272-1020, PSIP 3912#/1-1/2 hrs, PSIP 3948#/1-1/2 hrs; Perf
 5848-9863', A/300 gals; F/ 253 BO & 2 BSW/19 hrs & 15 mins 14/64" ch, C/Noble
 Drig Co.
 Test LI: Yates 2747', Queen 3484', San And 4073', Abo 7340', Wolfe 9114', Wolfe E
 marker 9174', Bough "A" 9800', Miss li 11,950', Wldd 12,601', Silurian 12,645'

The American
 OIL REPORTS

Date: 9-23-65

Card No.: 12 NW ch

LEA COUNTY

NEW MEXICO

ELK OIL CO. 1 Pennacoil State

Sheet 33A

2

4 mi NE/Maljean; 2130' FUL, 1980' FEL of Sec 35-165-33E

Unit G

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

Casing: 13-3/8" 368' / 400sx; 8-5/8" 4460' / 2200sx

Comp (8) : van DI, CNL, MICL logs, No Cores or SST's, C/Mondo

Logs: Rustler 1910', Yates 2815', Queen 3785', San And 4485',

Florietta 5930', Abo 7990', Wolfe 11,110', Cisco 11,258

11,258: 35-165-15638

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. KROENLEIN 200-57
WOLFCAMP		
COMPANY Tennessee Gas Trans. - #4 - State-A.A.		ELEV. 4150 DI
LOC. 1980' FNL & 660' FNL Unit E		Kemnitz "A" U/SVDR
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
SPD. 7-16-57	COMP. 9-19-57	Chasen + 444 3670
		SA - 321 4475
I. P. F. 376 BO/24 hrs., 20/64" ch.		TP 10,710
GR. 40.3 GOR 902		TD 10,893 L., ch.
TP 500		POD 10,848
CP pk.		
REMARKS 1682 L 415 -6672		
CONT'D. PAGE 2.		

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. vtr.; 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 KEMNITZ- WOLFCAMP	STATE N.M. KROENLEIN 200-59
COMPANY Tennessee Gas Trans. Co. - #6 - State	ELEV. 4139	
LOC. 1980' PSL & 660' FEL Unit I	A.A. Kemnitz "A"	
Sec. 30, T.16-S, R.34-E	10,900'	
ACID OR SHOT Perf. 56/10288-302	CASING RECORD 13 3/8- 358- 400 8 5/8- 4518- 2100 5 1/2- 10536- 470	Yates TOPS 2296 Queen 3688 Penrose 3997 S.A. 4516 Glor. 5990 C.P. 6596 Tubb 7209 Abo 7974 W.C. 9723 Woodf. 10324 TP 10,288 TD 10,970 PBO 10,473
SPO. 10-8-58	COMP 2-2-59	
I. P. P. 68 BOPD + 62 BXW		
G. 39. GOR - TP CP		
REMARKS Perf. 10288-302 sub. 90% XW & mud; sqz. w/100 sx; Perf. 35/10288-295; wash w/750 acid, CONT'D. PAGE 2.		

LEA, N.M. 30-16-34 K-200-59
Tennessee Gas Trans. Co. - #6 - State A.A. Kemnitz "A".
PAGE 2.
 sub. 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. KEMNITZ 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 **K**
 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**



Petroleum Information

CORPORATION
A Subsidiary of A.C. Nielsen Company

Date: **12-9-81**

Card No.: **28 mja**

WOLFCAMP

COMPANY: Tennessee Gas Transmission Co. - #5 - State AA Kemnitz "A" Elev. 4152 DF

LOC: 1980 FSL & FWL Unit K
Sec. 30, T.16-S, R. 34-E
10.850'

ACID OR SHOT	CASINO 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.P.	5958
		Tubb	6589
		Abo	7201
			7968

SFD. 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.
POD 10,903

WOLFCAMP

COMPANY: Tennessee Gas Transmission Co. - #5 - State AA Kemnitz A

LOC: 30-16-S
K-200-57
PAGE 2

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
1980 F SW/L 4141 C

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" 1nr-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/3000 gals; 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, AC&L; 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		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	CASING	TOPS LR 056908 E	
PERF: 10189-734	13 3/8- 396- 450	Anhy. 1570,	
	9 5/8- 4668- 800	Yates 2846	
	5 1/2- 11011-700	Queen 3775	
		S.And 4625	
		Glor 6048	
		Tubb 7334	
		Abo 8050	
		W.C. 9856	
		Strn 12120	
		cont'd.	
SFD. 7-2-65	COMP. 12-30-65		
P. 216 BOPD			
GR. 40. GOR 811	TP CP		
TOPS CONT'D.: Bend 12500; Miss.		TP 10,189(Penn)	
13762; Woodf 14450; Dev. 14553.		TD 14,585	
CONT'D. PAGE 2.		PBD 10,800	

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.

ST 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.

ST 11520-657 op. 1 hr. 15 mins.; rec. 3000' WB +
 50' very sli. 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 & sli. 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 114551-585 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 F State "K")
Sec. 1, T.17-S, R.33-E no show in spf log - WL and below

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 ex; Perf 11634-653'; overall; 1500 gal. acid/11634-653; F. 15 BO & died/11634-653; 10,000 gal. acid/11634-653.

TP 11,733 L., sh.

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
11,900'

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.F. 6643
		Tubb 7293
		Abo 8054
		Kennitz 10876
		Seaman 11620
		11,733 L., sh.
		5288

SPD. 12-22-57 COMP. 4-9-58

I. P. F & A

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". PAGE 2.

Core 3737-59 rec. 22'; 2' red sand; 20' gry. sd. w/SSO.

Core 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 4408-4459 1/2 rec. 51 1/2'; 6' sand; 42' sdy. dolo.; 3 1/2' sd. w/stn. odor.

Core 4460-80 rec. 19 1/2' sdy. dolo.

Core 4481-4531 rec. 50' sd. dolo. w/SSO.

Core 4581-4631 rec. 50' sd. & dolo.

Core 4631-81 rec. 50' sd. & dolo.

DST 4865-4930 op. 1 hr. rec. 90' SGCM; FP 70-100; SIP 1420/30".

DST 5170-5280 op. 30 mins. rec. 130' SGCM; FP 70-95; SIP 1628/30".

DST 10383-468 op. 1 hr. rec. 690' BGCM; 120' XW; FP 120-370; SIP 2380/30".

CONT'D. PAGE 3.

LEA, N.M. 1-17-33.
Texas Gulf Prod. Co. - #1 - State "K"

K-614-58
PAGE 3.

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/SSO.
Core 12 11658-680 rec. 19' lime vert. frags. w/SSO.
Core 13 11691-733 rec. 51 1/2' shale and lime.
DST 4 11625-733 op. 3 hrs. gas 5 mins. and 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.

Sec. 2-T175-7

Co. LEA		POOL WILDCAT		STATE N.M. KROENLEIN 614-58	
COMPANY Texas Gulf Prod. Co. - #1 - State L					
Loc. 660 P3L & PEL Unit P					
Sec. 2, T.17-8, R. 33-E					
4800'					
ACID OR SNU?		CASINO RECORD		Yates	
		13 - 388-450		Queen	
				S.A.	
SPD 1-10-58		COMP 3-24-58		2800	
I. P. P & A				3730	
GDR				4534	
REMARKS				5270 L.	
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' ady. dolo.
 5 1/2' sand w/bldg. oil; 2' edy. dolo.; 25' xlyn.

Core 4453-4505 rec. 51' dolo. sand w/80 4468-72'
 4505-55 rec. 50' dolo. sand w/very slight 30 in
 top 5'

Core 4884-4960 rec. 76' dolo. w/S30; in lower 13' water.
 Core 5175-5250 rec. 75' dolo. w/XM.

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO., 23 Phillips "E" State ^{OWWO} Result. OIL DO

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

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

Casing: 8-5/8" 388' / 400sx; 4 1/2" 4618' / 300sx; 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 COUNTY NEW MEXICO MALJAMAR 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) 4 604-16', 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


Geological Information
A Division of A.C. Nelson Company

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COUNTY	LEA	FIELD	Maljamar		STATE	NM	
OPR	PHILLIPS PETROLEUM CO.				API	30-025-25229	
NO	23	LEASE	Phillips "E" State		SERIAL	4-2-18 NM	
	Sec 11, T17S, R33E				MAP		
	990' FSL, 2310' FWL of Sec				CO-ORD		
	7 mi E/Maljamar				ELF	[REDACTED]	
SFD	2-11-76	CMP	3-8-76	WELL CLASS:	INT	D	FIN DO
CSG				FORMATION	DATUM	FORMATION	DATUM
	8 5/8" at 388' w/400 sx 4 1/2" at 4618' w/300 sx			TD 4618' (SADR)		DPT 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 PD	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 Rivers 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

Sec. 13-T175-R33E

Co. LEA POOL MALJAMAR STATE N.M. KROENLEIN 562-59
 COMPANY Cabeen Exploration Corp. - #1 - State "D" Elev 4114
 LOC. 660' FNL & 663.05' FNL Unit D
 Sec. 13, T.17-S, R. 33-E
 5000'

ACID OR SHOT	CASING RECORD	B. Salt	TOPS
	8 5/8- 300- 250	Cusen	2640
		Penrose	3790
		Premier	4000
		S. And.	4565
			4598
SPO. 12-4-59	COMP 12-30-59		
I. P. P & A			
GR. BOR	TP	CP	
REMARKS			
	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., NS.
 Core 4598-4654 rec. 53' dolo., SSO.
 Bodg. oil: 4629-35; 4637-39; 4641-46; 4650-53.

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



Petroleum Information®
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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/24hrs;
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
 Locn: 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 Andres) 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 Andres 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
 Locn: 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 SIF; 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
 Locn: 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' San 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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P 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		CASING	TOPS
PERF:	4701-	13 3/8- 340- 400	Anhy 1587
	4707	8 5/8-4000- 375	Yates 2872
		4 1/2"L.-3880-	Queen 3843
		-4936- 500	S.And 4658
			Glor 6069
			Tubb 7387
			Abo 8145
			Wolfe 9408
			Pn Im 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	VALUES	STATE	N.M. KROENLEIN	751-61
COMPANY Neville G. Penrose, Inc. - #4 - Phillips, et al. - 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		TD 4122 L.		
REMARKS				PBO		
CONT'D. PAGE 2.						

K-751-61
PAGE 2.

LEA, N.M. 4-17-34
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/SSO, tite; 3' red tite sand; 2' gry. sand w/SSO, 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-2-17-34 KROENLEIN
 -ABO
 COMPANY J. C. Barnes Oil Co. - #1 - Lea-State ELEV. 4118 GR
 LOC. 2029' FNL & 1980' FWL Unit F 11,900' RT-Cisco
 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	Anhy 1552
	8 5/8-4305- 800	Yates 2808
	5 1/2-11055-400	Queen 3782
		S.And 4620
	2 3/8-10125	Glor 6022
		Tubb 7350
SPD. 9-17-70	COMP. 11-16-70	Abo 8050
		Wolfe 9800
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 ⁹⁹⁻⁸⁸

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
	2 3/8-10715	Abo 8070
		Wolfe 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.

B-5-17-34
PAGE 2.

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

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

LOC. 1980' FSL & 2130' FEL Unit J 1984
Sec. 5, T.17-S, R.34-E 108789
12,000' RT=Wolfcamp

ELEV. 4098 GR

PAY STIMULATION		CASING	TOPS
PERF: 10757-		13 3/8- 360-circ	Anhy 1540
10892		8 5/8-4300- 500	Yates 2810
		5 1/2-11065-240	Queen 3810
			S.And 4636
			Glor 6022
			Tubb 7341
			Abo 8048
			Wolfc 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 PKT			TP 10,757
Perf: 10757, 10776, 10836-855,			TD 11,050
CONT'D. PAGE 2.			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 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
			Queen 3785
			S.And 4636
			Glor 6023
			Tubb 7350
SPD.	3-26-70	COMP.	6-1-70
			Abo 8051
			Wolfe 9816
I. P.	F. 258 BO, no wtr./24 hrs., 20/64" ch.		Penn 11220
			Penn L. 11549
GR.	42. GOR 300 TP 240 CP PKR		TP 10,867
	DST 10179-190 op. 2 1/2 hrs.,		TD 11,766
	rec. 450' gas in DP; CONT'D. PAGE 2		PFD 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#.

Co. LEA		POOL VACUUM	STATE N.MEX. KROENLEIN	766
COMPANY Repollo - #1-200 - State			ELEV. 4112	
LOC. 660' PNL & 1900' ILL Unit O Sec. 5, Twp. 17, R. 34				
ACID OR SHOT	CASING RECORD		TCPB	
Shot 140 qts. fr. 4665-4721	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		TD	4741 L
			PBO	

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

ACID OR SHOT	CASINO RECORD	TOPS
	13 - 307- 350	Rust 1507 Yates 2805 Queen +579 3751 SA -430 4560
SPD. 3-19-57 COMP. 4-21-57		
I. P. P&A		
GR. BOR TP CP		TP TO 5050 Dol. P&A GR. N
REMARKS DST 4851-4921, op 1 hr. 15 min. rec 5' mud w/SSO FP 0 SIP 125/30 min.		

Co. LEA POOL WILDCAT STATE N.M. KROENLEIN 765
 COMPANY Repollo Oil Co. - #2 - State "197" Elev. 4110
 (only op. by Sinclair)
 Loc. 1650' FSL & 330' FEL Unit I
 Sec. 6, Twp. 17-S, R. 34-E
 3.

ACID OR SHOT	CASINO 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		
GR. BOR TP CP		TP TO 5020 P&A
REMARKS BG 4618, SO 4637-40, 4897, SW 5012-20 alt wtr.		

COUNTY LEA		FIELD Vacuum	STATE NM
OPR BROWN, H. L., JR.			API 30-G25-23946
NO 1	LEASE State "B"		SERIAL OWWO
Sec 6, T-17-S, R-34-E			MAP
2310' FSL, 860' FEL of Sec			CO-ORD

IP (Grayburg-San Andres) Perfs 4643-4651' P 5 1/2 BOPD. Pot
based on 24 hr test. GOR TSTM; Grav 34

F.R.C. 1-5-74
(Grayburg-San Andres)
(Orig. comp 1-22-72 thru (Wolfcamp)
Perfs 10,754-954', OTD 11,065', OPB 11,010')
12-31-73 TD 11,065'; PBD 4657'; COMPLETE
Pulled 4 1/2" csg
PB to 4657'
Sqzd OH & 8 5/8" csg w/75 sx
Perf 4643-51' w/16 shots (overall)
Acid (4643-51') 1000 gals
Frac (4643-51') 12,000 gals + 10,000# sd
1-5-74 COMPLETION REPORTED

30-025-23946
Co. LEA POOL VACUUM, NW STATE N.M. B-6-17-34
-WOLF CAMP
COMPANY H. L. Brown, Jr. - #1 - State "B"
LOC. 2310' FSL & 860' FEL ELEV 4154 KB
Sec. 6, T.17-S, R.34-E 4122 GR
11,200' RT-Wolfc.

PAY STIMULATION PERF: 10754- 10762		CASING 11 3/4- 345- 400 8 5/8-4665- 250 4 1/2-11065-300		TOPS Anhy 1537 Yates 2800 Queen 3775 S. And 4612 Glor 6020 Tubb 7346 Abo 8005 Wolfe 9786 Kemnitz 10803	
SPD. 11-22-72 COMP. 2-23-72		I. P. P. 100 BO + 44 BLW/24 hrs.		TP 10,754 TD 11,065 PBD	
GR. 41. GOR 2040 TP CP DST 10890-990 1000'WB, op. 4 hrs. CONT'D. PAGE 2.					

F.R. 8-20-73
(Wolfcamp)
9-26-73 Drlg 3755'
10-3-73 Drlg 5128' 1m
10-10-73 TD 7059'; Trip
10-17-73 Drlg 8981' 1m & sh
10-24-73 Drlg 10,510' 1m & sh
10-31-73 Drlg 11,089' 1m
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 Vacuum, NW.
BROWN, H. L., JR. 2 State "B"
Sec 6, T17S, R34E

NM
Page #2

10-31-73 Continued
DST 10,920-935', open 1 hr (975' WB),
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

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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

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. LEA POOL WILDCAT STATE:LEA KRDENLEIN 704
COMPANY Repollo Oil Co. - #1 - State-"197" Elev. 4118
(fully op. by Sinclair)
Loc. 330 FSL & FEL Unit P
Sec. 6, Twp. 17-S, R. 34-E S.

ACID OR SHOT	CASING RECORD	Tops
ACID:8000 gals.	13 - 2A1 - 200	T.A. 1540
	9 5/8 - 2742 -250	T.S. 1651
	7 -4359 - 100	B.S. 2640
	2" tbg. 4684	T.Yates 2830
	pkc. 4284	T.Br.L 2982
		T.Gr.L 4350
		BSAD -500 4618

SPD. 6-28-38 COMP.
I. P. F 95 BO/9 hrs thru 3/4 oh on 2"
No G est.
GR. BOR TP CP
REMARKS
CONT'D PAGE #2

SA -500 by Symptom
TP 4644
TD 5016
PSD 4685

LEA, NEW MEXICO 6-17-34 PAGE 42
Repollo Oil Co. - #1 - State - #197"
AA Sub. 30 BOA F 40 BO/12 hrs thru oag.
BO 3810-16 odor, 3860-85, 80 4656-60 BO&O 4644-53
INCO&O 4677-80, SW 5850-40, 400' alt. W 5 hrs,
5006-16 Sltly Sul W 1 BWPB

LEA COUNTYNEW MEXICONACUUM, NW. FIELD

Well: PENNZOIL CO.1 Sinclair State"6"OWWOResult: D&A D

Loc'n: 9 1/2mi E/Maljamar, Sec6-17S-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.

Pi

Petroleum Information Corporation

A Subsidiary of A.C. Petco Company

Date: 11-11-81

Card No.: 46 mja

LEA COUNTYNEW MEXICONW. VACUUM FIELD

Well: PENNZOIL CO. 1 Sinclair State"6"OWWOResult: D&A D

Loc'n: 9 1/2"mi E/Maljamar-Sec6-17S-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+WCDF+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

Pi

Petroleum Information Corporation

A Subsidiary of A.C. Petco Company

Date: 10-28-81

Card No.: mja

LEA COUNTYNEW MEXICOP-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.

68549

77A 1982

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.: Wolfc 9885; Penn		TP cont'd.
11345.		TD 11,819
		PBD 11,784

CONT'D. PAGE 2.

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

DST 10888-10910 op. 2 hrs. 55 mins., rec.
60' sll. 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
PAGE 3.
Pennzoil United, Inc. - #1 - Sinclair-State
"6"

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 VACUUM STATE N.MEX. KROENLEIN 008		ELEV. 4120	
COMPANY Magnolia Pet. Co. - #1-X - State			
Loc. 330' FEL & 330' FEL Unit A Sec. 7, Twp. 178, R. 34E			
ACID OR SHOT	CASING RECORD	TOPS	
Acid: 4000 gals.	9 5/8 - 1580 - 730	TA.	1530
	7 - 4660 - 700	T.S.	1680
		B.S.	2640
		T.Y.	2830
		Br.L.	3030
		T.S.A. 1227	4345 w/m
SPD. 3-11-48 COMP. 5-10-48			
I. P. F. 111 BOPD thru 24/64" TC on 2"		TP 4660	
GR. 33.8 BOP 1164 125 CP		TD 6479 wh sd.	
REMARKS		PBD 4674	
CONT'D PAGE #2			

CO. LEA POOL VACUUM STATE N.MEX. KROENLEIN 008		ELEV. 4120	
COMPANY Magnolia Pet. Co. - #1-X - State			
Loc. 330' FEL & 330' FEL Unit A Sec. 7, Twp. 178, R. 34E			
ACID OR SHOT		CASING RECORD	
Acid: 4000 gals.		9 5/8 - 1580 - 730	
		7 - 4660 - 700	
		TA. 1530	
		T.S. 1680	
		B.S. 2640	
		T.Y. 2830	
		Br.L. 3030	
		T.S.A. 1227 4345 w/m	
SPD. 3-11-48 COMP. 5-10-48			
I. P. F. 111 BOPD thru 24/64" TC on 2"		TP 4660	
GR. 33.8 BOP 1164 125 CP		TD 6479 wh sd.	
REMARKS		PBD 4674	
CONT'D PAGE #2			

CO. LEA POOL VACUUM STATE N.MEX. KROENLEIN 631		ELEV. 4130	
COMPANY Continental Oil Co. - #1-7-1 - State			
Loc. 330' FEL & 1650' FEL Unit B Sec. 7, Twp. 17, R. 34			
ACID OR SHOT	CASING RECORD	TOPS	
Total Acid: 4000 gals.	13 - 305 - 300	T.A.	1550
	9 5/8 - 1839 - 425	B.S.	2720
	7 - 4395 - 425	T.Y.	2840
	2" tbg. 4767	T.1st L	3000
		T.L.Gr.	4340
SPD. 7-12-38 COMP. 1-10-38			
I. P. L&A		TP 4895	
GR. SC 3830-60; SO 4649-51 odor, S.L. 4870-60		TD	
REMARKS		PBD	

Sec. 7-T175-R34E

STATE E.M. KROENLEIN 741-61

POOL VACUUM

COMPANY Soccony Mobil Oil Co., Inc. - #4 - State Elev. 4132
"X" (faly. Magnolia)
- #4 - State "X",
SEE: CARD #669-57 for orig. (orig.)

LOC 660'PHL & 1980'FEL Unit B
Sec. 7, T.17-S, R. 34-E

ACID OR SHOT	CASING RECORD	TOPS
Natural OR 4638-4703	old 5 -4638-1300	

SPO - - COMP. 10-19-61

P. 8 BOPD

GR - GOR - TP CP

REMARKS

TP 4638
TO 4703
PSO

STATE E.M. KROENLEIN 669-57

POOL W. VACUUM

COMPANY Magnolia Pet. Co. - #4 - State "X" Elev. 4132 DP

LOC. 660'PHL & 1980'FEL
Sec. 7, T. 17-S, R. 34-E
4750'

ACID OR SHOT	CASING RECORD	TOPS
	8 - 1570 200 5 - 4638-1300	Anhy. 1515 Salt 1660 B.Salt 2738 Yates 2846 Queen 3792 3704 S.A. 4612

SPO. 6-15-57 COMP. 7-17-57

I. P. Temp. Aband.

OR GOR TP CP

REMARKS

TP 4703 dolo.
PSO

CR-U

CONT'D. PAGE 2.

K-669-57
PAGE 2.

SEA, E.M. 7-17-34
Magnolia Pet. Co. - #4 - State "X".

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.por. bldg. oil; 14' dolo.

Core 4678-4703 rec. 22' dolo.

LEA POOL UNDES. STATE N.M. P-7-17-34
 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.,		Penn 11400
16/64" ch.		
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 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 CFSGPD, 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.)

LEA COUNTY NEW MEXICO VACUUM FIELD
Well: MABEE PETROLEUM INC, 1 Mobil State Result: D & A D
Loc'n: 7 mi NW/Buckeye; 1980' FNL, 1980' FWL Sec 7-17S-34E
Unit F

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Spud: 10-23-82; Comp: 11-11-82; Elev: 4128' Grd; TD: 5050' SanAnd
Casing: 8-5/8" 1535'/615 sx
Comp Info: C/Salazar #14
Tops: NR
API No: 30-025-27980



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

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

Co. LEA POOL WEST VACUUM STATE N.M. KROENLEIN 1143-57
MAY 17 1957
COMPANY Magnolia Petr. Co. - #3 - State "X" ELEV. 4132 M
LOC. 1980' FNL & FEL Unit G
Sec. 7, T. 17S, R. 34E
4750' 175

ACID OR SHOT	CASING RECORD	TOPS
Acid: 21,000 gals. OH: 4640-4730	8 5/8 - 1567 800 5 1/2 - 4640- 1375	Anhy. 1552 Salt 1664 B. Salt 2745 Yates 2802 Brn. L. 3060 Queen 3800 Dol. 4310 S.A. 4617
BPD. 4-6-57 COMP. 5-1-57		
I. P. P. 17 BOPD		
GR. 34.9 GOR 1175 TP CP		TP 4640 TD 4730 Sh., Dol.
REMARKS Core: 3800-15, rec. 1' sd, vy fine grn, gr, shly, w/tr. red sh. Core: 4641-51, rec 9' dolo. w/some anhy.		

CON'T. PAGE 2

17S K-1143-57
LEA, N.M. 7, 17S, 34-E
Magnolia Petr. Co. - #3 - State "X"
Core 4651-90, rec. 39' dol, btm. 5' w/por & SO
Core 4690-4730, rec. 40' dol. w/sh & anhy.; swb. op. Hole
19 BLO/2 hrs, swb. dry/ 1 hr.

Co. LEA	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 BNDY	CASING RECORD	TOPS
9000 gals. Acid	9 5/8 - 1805 -500 7 - 4840 -600	T.A. 1530 B.S. 2660 T.Y. 2810 T.Br.L. 3030 T.Gr.Brg. 4320 T.S.A.-497 4800
SPD 12-15-48	COMP. 3-1-49	
I. P. P. 50 BO/24 thru 2" @ 4656		
GR.30.9 GOR 491 TP CP		TP 4841
REMARKS AA swb. 18 BO & 16 BAW/24 hrs.		TD 4658L
		POD

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/16,000gals & 45,000# sd; F/635 MFCGPD & 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 mm

30-027-24131 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. 1115 GR
4126 KB

PAY STIMULATION PERF: 4644- 4673	CASING 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'.		TP 4644 TD 4703 RBD 4690
CONT'D. PAGE 2.		

LEA, N.M. W-7-17-34
Wolfson Oil Co. - #1-J - Mac State 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

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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 WOLFCAMP KROENLEIN
 COMPANY Pennzoil United, Inc. - #1 - Gallagher-State PAGE 5.
 "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. R6- COMP. 8-9-70		
I. P. P. 8.28 BO + 25 BW/24 hrs.		
GR. - GOR 6080 TP CP		TP 10,929
Set BP/11,050'. Jet Perf 2 holes/ 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').

LEA		POOL WILDCAT		STATE N.M.		P-8-17-34	
		(CISCO DISCOVERY)				KROENLEIN	
COMPANY Pennzoil United, Inc. - #1 - Gallagher-State				"8"		ELEV 4106 GR	
LOC. 660' FNL & 510' FWL							
Sec. 8, T.17-S, R.34-E							
11,500' RT-Wolfcamp							
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			
				Penn 11415			
				Cisco 11606			
SPD. 8-31-68		COMP. 11-8-68					
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.							
rec. 152' drlg. fluid, 2000' salt							
sul. wtr., CONT'D. PAGE 2.							
				TP 11,712 (Cisco)			
				TD 11,825			
				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.

LEA, N.M. P-8-17-34
Pennzoil United, Inc. - #1 - Gallagher-State "8"
PAGE 4.
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
		D.S. 2670
		T.Y. 2880
SPD. 6-23-48	COMP. 8-11-48	
I. P. P. 48 BO/24 thru 2" O 4649		SA -522 57mp
GR. 34 GOR TP CP		TP 4640
REMARKS		TD 4649L
		PSD

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
		PSD

CO. LEA POOL VACUUM STATE N. MEX KROENLEIN 640
 COMPANY Delfern Oil Co. - #1-A - Lea-State Elev. 4113
 LOG. 1980' FWL & FWL (C SE HW) 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
	5 1/2 - 4299 - 750	T.Yates 2880
9000 gals.	2 - 4720	T.S.A. - 516 4646 4627
		Open? 4203 3850
BPD. 10-3-47 COMP. 1-12-48		
I. P. F. 111 BO/8 hrs 1" chk, 2" 4720		
GR. 37	GOR 1041 TP-0-200	TP 4673
	CRPKR 4660	TD 4723-L
REMARKS	CONT'D PAGE #2	PSD
		SA log

K-640

LEA, NEW MEXICO 8-17-34 PAGE #2
 Delfern Oil Co. - #1-A - Lea-State
 LOG. 80 4675-76; TD 4723 had 450' OIH ran 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 eat 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
 LOG. 1980' FWL & FWL Unit K
 Sec. 8, Twp. 17-S, R. 34E

ACID OR SHOT	CASING RECORD	Tops
Acid: 9000 gals.	8 5/8 - 335 - 150 5 1/2 - 4580 - 900	A. 1550 T.S. 1680 B. S. 2680 T.Y. 2885 T.Red Sd. 3820 3837 T.Wh.L. - 517 4646 4630
BPD. 5-18-48 COMP. 7-11-48		TP 4676 TD 4691 L PSD CR-M
I. P. P after acid 54 BOPD		
GR. GOR TP CP		
REMARKS Tr. 9500 gals. 4676-4691 swb. 3 BOPH for 10 hr. thru 2" w/pkr. 4615		

Petroleum Information.

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COUNTY LEA FIELD Vacuum STATE NM
 OPR WOLFSON OIL CO. API 30-025-24691
 NO 5 LEASE Lea "A" State SERIAL
Sec 8, T-17-S, R-34-E MAP
2310' FSL, 330' FWL of Sec Unit L CO-ORD

CLASS DO		ELEV <u>GL 4085</u> L & S	
SPD 4-7-74 CMP 5-20-74	FORMATION	DATUM	FORMATION
CSG 8 5/8" at 329' w/175 sx 5 1/2" at 4690' w/600 sx			
	TD 4690' (SADR)		PBD

IP (San Andres) Perfs 4622-31' P 15 BOPD. Pot based
 on 24 hr test. GOR 1650' Grav 32

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

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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 14,000

Re- 11-14-75 Re- 2-18-76

WELL CLASS:	HET	DD	FIN	DC
FORMATION	DATUM	FORMATION	DATUM	
TD	13,510' (MSSP)	PBD	13,400'	

IP (Morrow) Perfs 13,181-364' CAO 1760 MCFGPD. GOR 6488; gty (Gas) .6909; (Cond) 50; SIWHP 3347#

CONTR Cactus #22 OPR'S ELEV 4104' CL 4127' KB 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')

3-27-76 AMEND FIELD NAME: Formerly reported as Undesignated

12-1-75 Drlg 12,625'

12-8-75 Drlg 13,165'

12-15-75 TD 13,510'; Prep Run 5 1/2" csg
Deepened from 11,998' to 13,510'

1-7-76 TD 13,510'; MICU
Ran 5 1/2" csg

1-20-76 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

IEA 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 KROENLEIN
 COMPANY Pennzoil United, Inc. - #2 - Gallagher State
 "8" (fmlly. 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		Wolfc 9715
		Hueco 10105
		Bo C 11071
GR. GOR 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.; FSIP 1644/
 2 hrs.

LEA COUNTY		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 "cn" 11071			
SPD. 7-24-67		COMP. 9-3-67		Anhy. (EL) 1560			
I. P. P & A				Yates 2826			
GR. GOR TP CP				Queen 3825			
DST 11185-11260 op. 1 hr., weak				S. And 4610			
blow, 1000' WB, rec. 910' WB; FP				Tubb 7395			
492-479; ISIP 973/1 hr.; FSIP 438				Wolfc 9760			
				TP 11,300			
				PBD 1/4 hrs.			

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' / 400 sx, 5 1/2" 4800' / 1950 sx

Prod Zone: (San And) T/Pay 4656', prod thru perms 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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LEA COUNTY NEW MEXICO VACUUM N. FIELD

Well: SOUTHERN UNION EXPL 3 Gallagher "8" State "OWWOH" 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' / 400 sx; 8-5/8" 4755' / 2100 sx; 5 1/2" 13,535' / 1000 sx;
2-3/8" 9045'
Prod Zone: (Abo) Prod thru perfs 8846-8984'
TTP: 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;
Tops: (NR)
API No: 30-025-25326

6/25 510/460
7/25 554/367
8/25 488/160
9/25 452/150
10/25 456/10

Oct. 25:
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'
IPF: 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'
sqzd 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
A Subsidiary of A.C. Nielsen Company

Date: 6-15-77 Cord 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.		
GR. 34.2 GOR - TP 100 CP -		
REMARKS Core 4575-4651 rec. 76' dolo.		
scat. bldg. oil.		

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 perms 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

CO. LEA	POOL WILDCAT	STATE N.MEX	KROENLEIN 771
COMPANY H.P. TAUBMAN - #1 - Sun-State	Elev. Est 4122 D 4112C		
LOC. 660 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.	
SPD. 9-27-43 COMP. 1-3-44			
I. P. D&A			
GR. GOR	TP	CP	TP 5050
REMARKS SLN 4926-31	SN 4931-34, 5031-50	PBD	

LEA COUNTY **NEW MEXICO** **WILDCAT**

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

Locn: **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 perms II, 095-163'

IP: 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/ 28,000 gals & 48,000# sd; Non-Commercial; sqzd w/150 sx; Perf (Penn) II, 095-104', 11, 111-114', 11, 122-125', 11, 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', Cany 11,400', Strawn 12,190', Atoka 12,578', Miss 13,438'

API No.: 30-025-25256

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Petroleum Information

CORPORATION
A Subsidiary of A.C. Nielsen Company

Date: 9-1-76 Cord No.: 14 rm

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		
1980' FNL, 660' FEL of Sec		
5 1/2 mi NW/Buckeye		
SPD 3-14-76	COMP 8-9-76	ELEV WFD
WELL CLASS: D		
FORMATION		
DATUM		
FORMATION		
DATUM		
TD 13,545' (MSSP) PBD 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** ° **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