

APPLICATION FOR AUTHORIZATION TO INJECT

State "B" #2 - Unit M 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. Compensated Neutron Log and Dual Induction Laterolog were
submitted by the original operator, H.L. Brown Jr., to the N.M.O.C.D. Dist. 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 "B" #2

I. Purpose:

To re-enter this well and complete in the Queen formation as a salt water disposal well. Planned injection interval is 3770-3810'.

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 758 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: 3770-3810'

Queen (Permian)

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

Dolomite: some dolomite cement

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

- IX. The planned completion program is to selectively perforate and stimulate with acid within the proposed injection interval 3770-3810'.
- X. Electric logs have been submitted to the NMOCD, Hobbs District Office by the original operator, H.L. Brown, Jr.
- XI. There are five 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
Unit F Sec.12,T.17S.,R.33E.	Waterflood supply well-sample analysis attached
Unit H Sec.12,T.17S.,R.33E.	Open 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 Nielsen

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 "B"	
OPERATOR		LEASE	
2	990' FSL & 330' FWL	6	17S. 34E.
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP RANGE

Schematic

See attached schematic.

Tabular DataSurface CasingSize 11 3/4 " Cemented with 400 sx.TOC Surface feet determined by circulationHole size 17 1/2"Intermediate Casing*Size 8 5/8 " Cemented with 250 sx.TOC No Report feet determined by Hole size 11"Long stringSize 5 1/2 " Cemented with 1500 sx.TOC Surface feet determined by circulationHole size 8 5/8" casing from 4450' to 1250'. 11" hole
Total depth from 1250' to 387'. 11 3/4" casing from 387' to surface.Injection interval3770 feet to 3810 feet
(perforated or open-hole, indicate which) perforated

*8 5/8" intermediate casing was shot and pulled from 1250' when the well was plugged. 5 1/2" 17# K-55 casing will be run inside the 8 5/8" casing from 4450' to surface. Cement behind the 5 1/2" casing string will be circulated to surface. The Queen interval 3370' to 3810' will be selectively perforated and stimulated for injection. Stimulation is expected to consist of a 2500 gallon acid job.

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 "B" #2
Wells Within Area of Review

Sec. 1, T.17S., R.33E.

- (1). Yates Petroleum Corporation Hoover "ADR" State #1 1650' FSL & 990' FEL

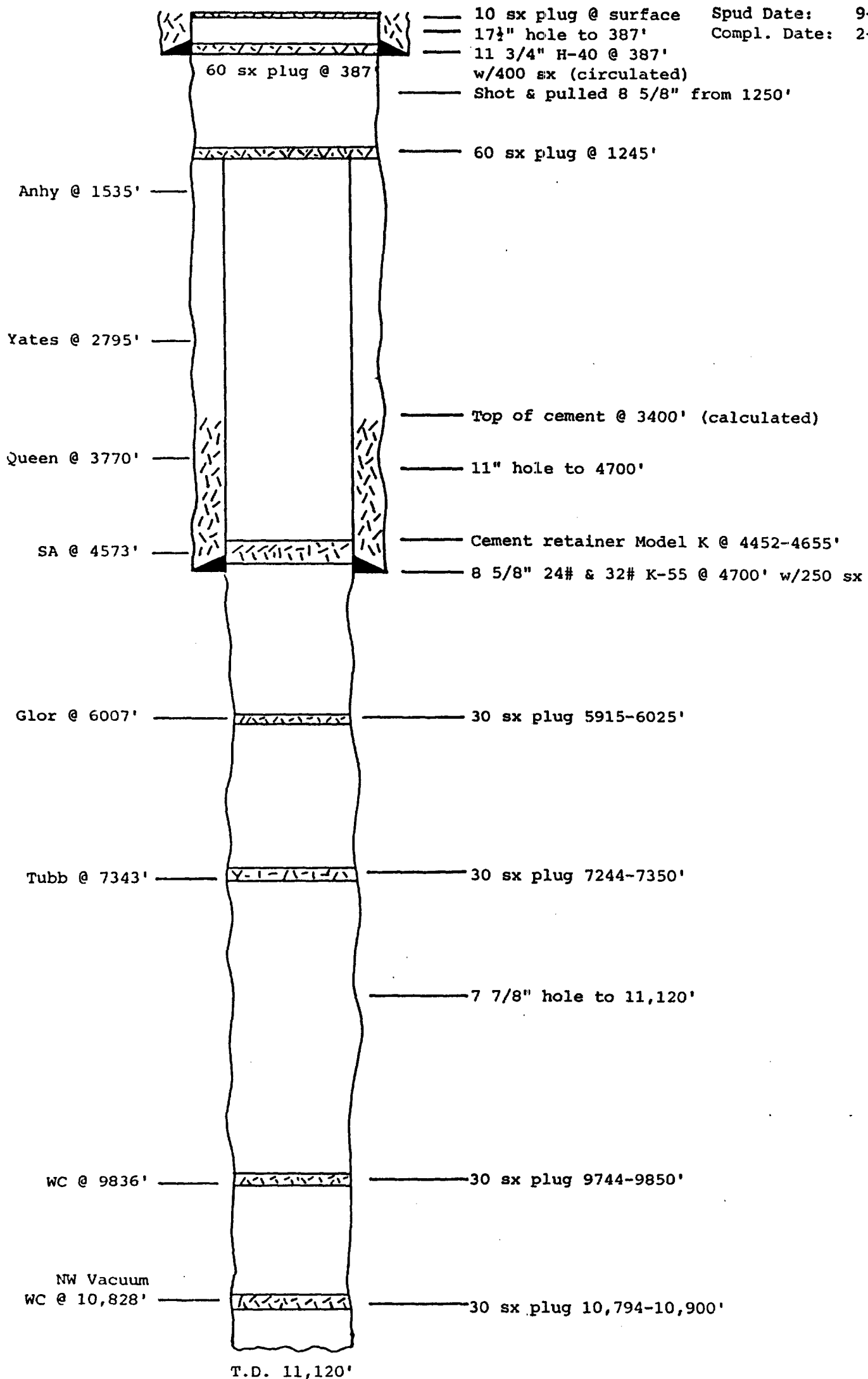
This well was spudded on December 31, 1985. TD is 11825' - Penn. Casing and cement: 13 3/8" in 17 1/2" hole set at 448' and cemented with 425 sacks, cement circulated to surface; 8 5/8" in 11" hole set at 4530' and cemented with 1725 sacks, cement circulated to surface; drilled 7 7/8" hole to TD. Plugged back to base of intermediate casing as shown on the attached schematic and completed in the Queen. Perforated 3767-3774' with 14 holes and acidized with 2000 gallons 7 1/2% NEFE acid. Initial potential pumping 48 BOPD and 496 BWP.

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

- (2). 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.
- (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 1/2" 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. Well was plugged per attached schematic, "Present Well Condition." Yates Petroleum Corporation proposes to re-enter this well as the State "B" #2 and complete for water disposal as shown on the attached "Injection Well Data Sheet" and "Disposal Well Diagram."

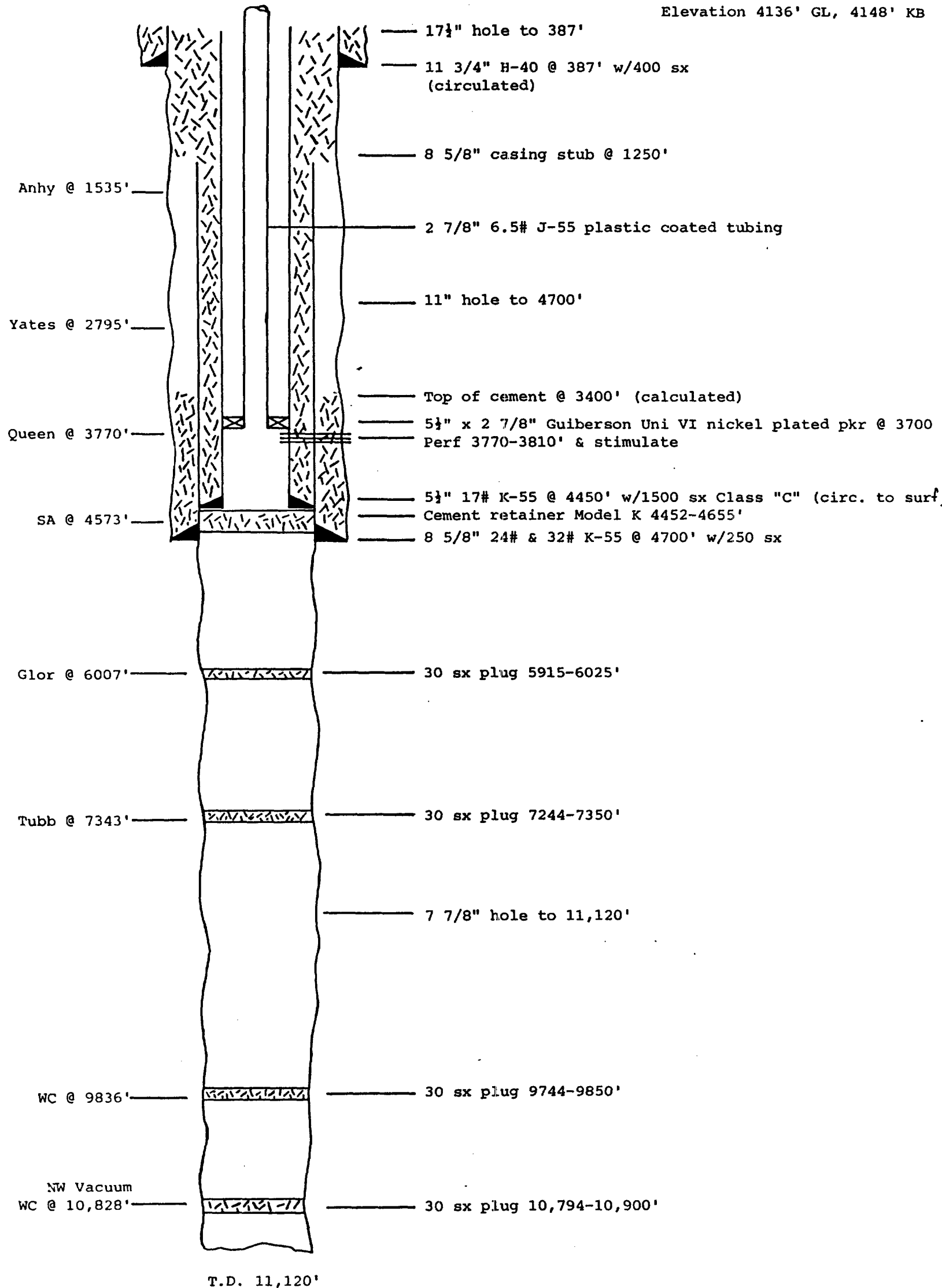
PRESENT WELL CONDITION

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

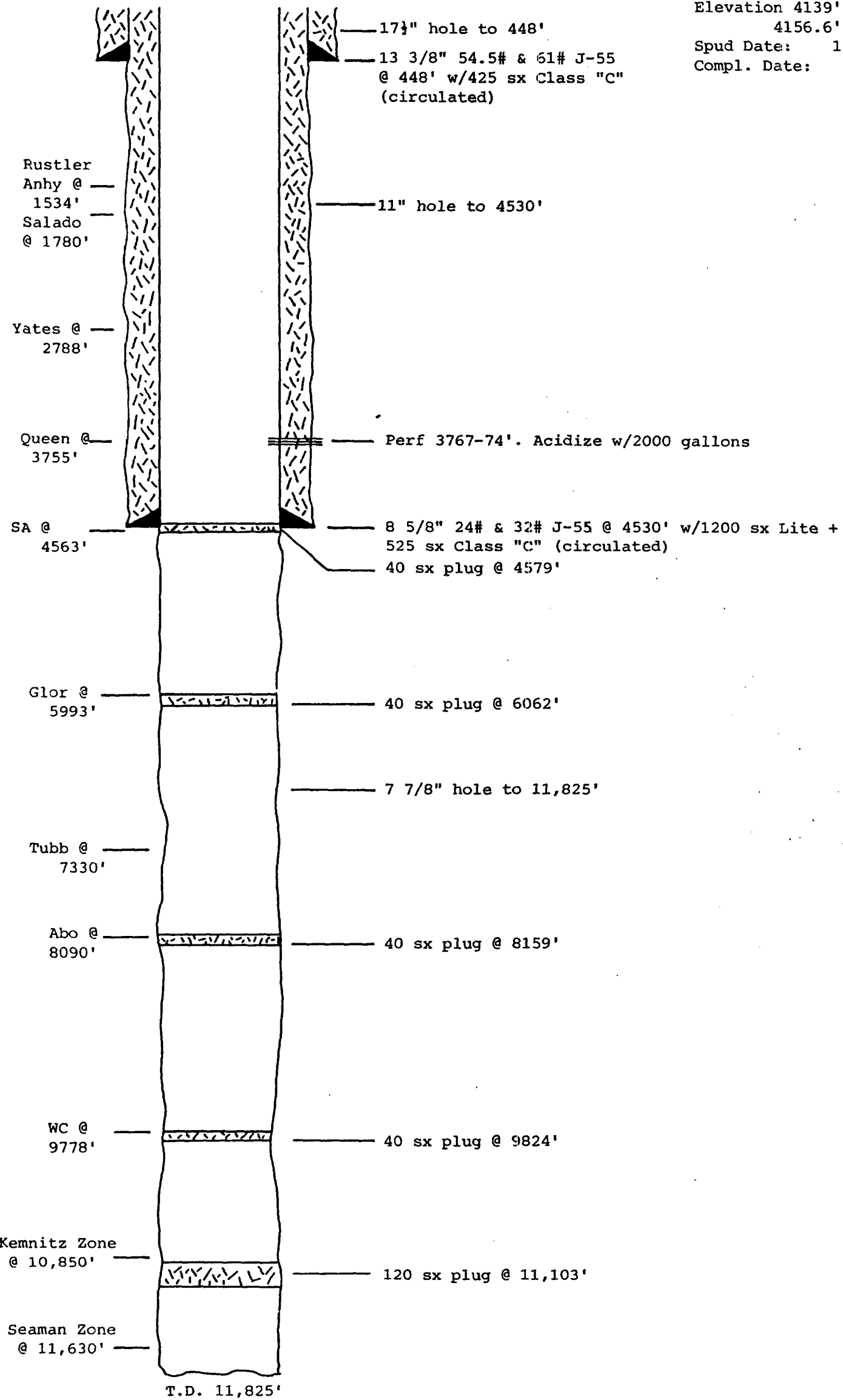


PROPOSED DISPOSAL WELL

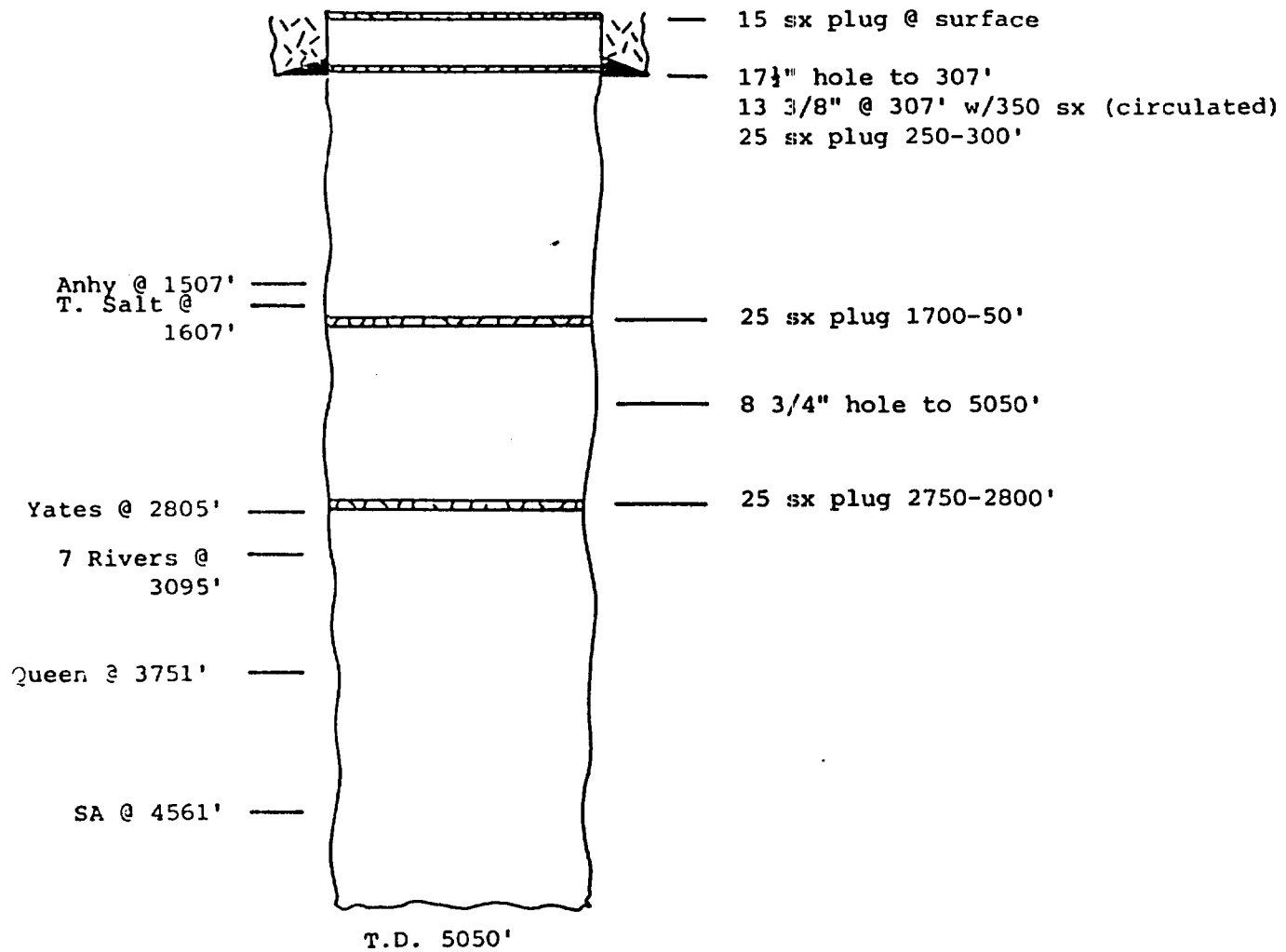
State "B" #2
 Sec. 6-17S-34E
 990' FSL & 330' FWL
 Elevation 4136' GL, 4148' KB



Yates Petroleum Corporation
 Hoover "ADR" St. #1
 Sec. 1-17S-33E
 1650' FSL & 990' FEL
 Elevation 4139' GL
 4156.6' KB
 Spud Date: 12-31-85
 Compl. Date:



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



YOUR EXT. NO.

[ANALYSIS NO. _____]

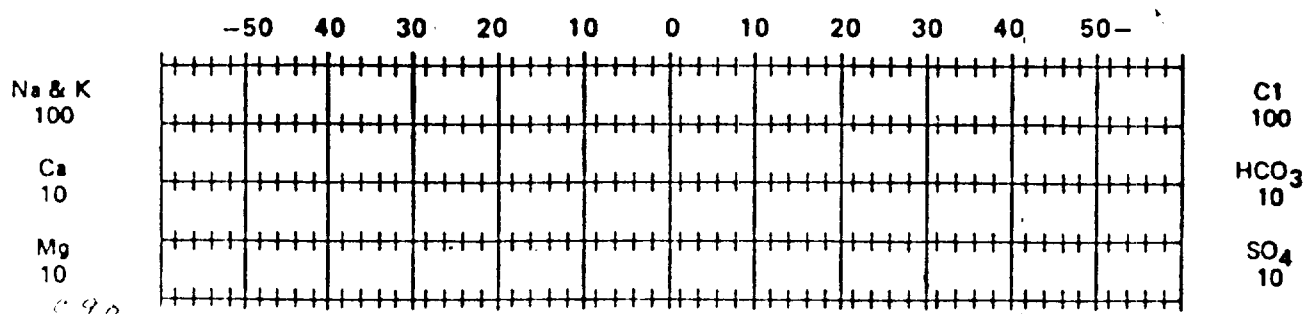
WATER ANALYSIS

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

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> at <i>72</i> PPM
IRON <i>Very Faint / Faint</i>	SULFATE <i>2500</i> PPM
HYDROGEN SULFIDE <i>NONE</i>	BICARBONATE <i>364</i> PPM
HARDNESS <i>80</i> <i>80000</i>	CHLORIDE <i>180000</i> PPM
CALCIUM <i>2.0</i> <i>8006</i>	SODIUM CHLORIDE <i>296100</i> PPM
MAGNESIUM <i>60</i> <i>14580</i> PPM	SODIUM _____ PPM
SODIUM & POTASSIUM _____ PPM	POTASSIUM <i>-0-</i> PPM
PHOSPHATE _____	<i>0.7 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 0.065 @ 68° 10+ @ 68°Specific Gravity 1.10 1.001pH 6.8 7.0Calcium (Ca) 7.992 42 *MPLMagnesium (Mg) 1.348 76Chlorides (Cl) 86,000 200Sulfates (SO₄) Heavy NilBicarbonates (HCO₃) 153 183Soluble Iron (Fe) Nil Nil

Remarks:

*Milligrams per liter

Rocky Chambers
Respectfully submitted,

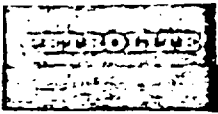
Analyst: Rocky Chambers - Field Engineer

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.



PETROLITE OIL FIELD CHEMICALS GROUP

369 Marshall Avenue • St. Louis Missouri 63119
314 961-3500 • TWX 910-760-1660 • Telex: 44-2417

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		

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

840	Ca	←	HCO ₃	4
259	Mg	→	SO ₄	10
643	Na	→	Cl	1728

REMARKS _____

Respectfully submitted
PETROLITE CORP.

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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

1a. 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	12. County
15. Date Spudded	9-20-73	16. Date T.D. Reached
17. Date Compl. (Ready to Prod.)	10-31-73	18. Elevations (DF, RKB, RT, GR, etc.)
19. Elev. Casinghead	4136' GL	4136'
20. Total Depth	11,120'	21. Plug Back T.D.
22. If Multiple Compl., How Many	4650'	23. Intervals Drilled By
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	27. Was Well Cored

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	Well Status (Prod. or Shut-in)						
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)						
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas-Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By						

35. List of Attachments
Deviation Record, Form C-103, Logs
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Jack R. McGraw TITLE Drilling & Prod. Manager DATE March 13, 1974

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

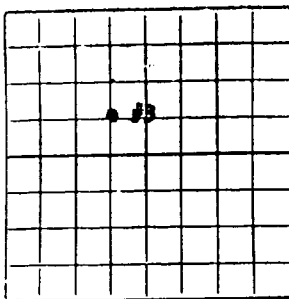
Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1535 (+2613)</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2795 (+1353)</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3770 (+372)</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>4573 (-425)</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>6007 (-1859)</u>	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>7343 (-3195)</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>9836 (-5688)</u>	T. NW Vacuum Wolfcamp	T. Chinle _____	T. _____
T. Penn. _____	T. <u>10,828 (-6680)</u>	T. Permian _____	T. _____
T. Cisco (Dough 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	9933	258	Lime & shale				
9933	10145	207	Lime				
10145	10636	491	Lime & shale				
10636	10961	325	Lime				
10961	11000	39	Dolomite				
11000	11120	120	Lime				



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 **NW** $\frac{1}{4}$, of Sec. **6**, T. **17N**, R. **36E**, NMPM.

Undesignated

Pool,

Lea

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**, 19**57** Drilling was Completed **4-19**, 19**57**

Name of Drilling Contractor **Gaskel Drilling Company, Inc.**

Address **Fort Worth, Texas**

Elevation above sea level at Top of Tubing Head **4130'** The information given is to be kept confidential until

19

OIL SANDS OR ZONES

No. 1, from **None** to No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

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

No. 1, from to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF 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	R-I 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: FBR, HFD, File

Depth 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. Anby. <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 Andres. <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 CompanyAddress 520 East Broadway Hobbs, N.M.Name C.C. SalterPosition or Title District Superintendent

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
LG 3345

19. 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 ☐	8. Farm or Lease Name
2. Name of Operator	Yates Petroleum Corporation	Hoover ADR State
3. Address of Operator	207 South 4th St., Artesia, NM 88210	9. Well No.
4. Location of Well		1
UNIT LETTER I LOCATED 1650 FEET FROM THE South LINE AND 990 FEET FROM East LINE OF SEC. 1 TWP. 17S RGE. 33E NMPM		10. Field and Pool, or Wildcat Und. Queen
15. Date Spudded	12-31-85	12. County
16. Date T.D. Reached	2-15-86	Lea
17. Date Compl. (Ready to Prod.)	4-10-86	
18. Elevations (DF, RKB, RT, GR, etc.)	4139' GR	
19. Elev. Casinghead		
20. Total Depth	11825'	
21. Plug Back T.D.	4352'	
22. If Multiple Compl., How Many		
23. Intervals Drilled By	Rotary Tools	
	38-11825'	
24. Producing Interval(s), of this completion - Top, Bottom, Name		
	3767-74' Queen	
25. Type Electric and Other Logs Run	CNL/FDC; DLL	
26. Was Directional Survey Made	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
20"		38'	24"		
13-3/8"	61#	448'	17 1/2"	425 sx	
8-5/8"	32 & 24#	4530'	11"	1725 sx	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	3698'	-

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
3767-74' w/14 .42" Holes (2 SPF)	DEPTH INTERVAL
	AMOUNT AND KIND MATERIAL USED
	3767-74' w/2000g. 7 1/2% acid + ball sealers.

33. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)	
3-4-86	Pumping					Producing	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4-10-86	24	-		48	TSTM	496	-
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
-	-		48	TSTM	496	36.4	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
	Norbert McCaw

35. List of Attachments
Deviation Survey, DST's (10)

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

TITLE Production Supervisor

DATE 4-22-86

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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 quadruplicate 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		
Rustler					
T. Anhy	1534	T. Canyon	T. Ojo Alamo	T. Penn. "B"	
T. Salado Salado	1780	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"	
T. Tausill Tausill	2630	T. Atoka	T. Pictured Cliffs	T. Penn. "D"	
T. Yates	2788	T. Miss	T. Cliff House	T. Leadville	
T. 7 Rivers		T. Devonian	T. Menefee	T. Madison	
T. Queen	3755	T. Silurian	T. Point Lookout	T. Elbert	
T. Grayburg		T. Montoya	T. Mancos	T. McCracken	
T. San Andres	4563	T. Simpson	T. Gallup	T. Ignacio Qtzite	
T. Glorieta	5993	T. McKee	Base Greenhorn	T. Granite	
T. Paddock		T. Ellenburger	T. Dakota	T.	
T. Elinebry		T. Gr. Wash	T. Morrison	T.	
T. Tubb	7330	T. Granite	T. Todilto	T.	
T. Drinkard		T. Delaware Sand	T. Entrada	T.	
T. Abo	8090	T. Bone Springs	T. Wingate	T.	
T. Wolfcamp Lime	9778	T. XX Marker	10155	T. Chinle	
T. Penn.		T. Kemnitz	10860	T. Permian	
T. Cisco (Bough C)		T. Seaman	11568	T. Penn. "A"	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....
 No. 5, 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.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	30	30	Surface				
30	4560	4530	Anhydrite, Dolomite, Sand				
4560	5000	440	Dolomite				
5000	5950	950	Dolomite, Anhydrite, Cht				
5950	6540	590	Dolomite, Sand, Shale				
6540	6840	300	Dolomite, Cht, Sand, Anhy				
6840	6980	140	Dolomite, Cht, Anhydrite				
6980	7180	200	Dolomite, Anhydrite				
7180	7650	470	Dolomite, Shale, Sand				
7650	8600	950	Dolomite, Anhydrite, Shale				
8600	9680	1080	Dolomite, Lm, Shale, Anhy				
9680	11825	2145	Lime, Dolo, Shale, Cht				

YATES PETROLEUM CORPORATION

DRILL STEM TESTS

Hoover ADR State #1 LG-3345

Unit I, Sec. 1-T17S-R33E

Lea County, New Mexico

DST #1 4590-4629' (39') SAN ANDRES: TO 30"; SI 90: TO 60"; SI 180". First open - opened with very weak blow. Remained very weak for 15 minutes. No blow after 20 minutes, 1/8" on bubble hose. In 5 minutes had 1 1/4" in 5-gal bucket water. Had 3 1/4" in bucket after 35 minutes. Decreased to 1" in 55 minutes. SAMPLER: 6 psi, .149 cfg, 100 cc water (total fluid 100 cc). SAMPLER: 4' oil cut water. BHT: 113°. PRESSURES: BOTTOM: 1st open IHP 1992; IFP 26; FFP 39; ISIP 131; 2nd open IFP 26, FFP 26; FSIP 289.

DST #2 4843-4879' (36') SAN ANDRES: TO 30"; SI 90"; TO 60"; SI 180". 1st open - opened with very weak blow, 1/2" in bucket. No increase for remainder of open. 2nd open - opened with weak blow 1/2" in bucket. Remained weak for remainder of open. RECOVERY: 15 psi, 500 cc water slight oil cut, .1794 cft. SAMPLER: 8' drilling fluid, slight oil cut. BHT: 113°. PRESSURES: BOTTOM: 1st open - IHP 2150; IFP 26; FFP 26; ISIP 131; 2nd open - ISP 39; FFP 236; FHP 2150.

DST #3 6086-6150' (64') GLORIETA: TO 30"; SI 90"; TO 60"; SI 240". 1st open - opened with weak blow 1/2" bucket. Had small increase in blow for 10 minutes. Blow stabilized 1" in bubble bucket. 2nd open - opened with no blow. In 30 minutes had very weak blow 1/8" in bucket. In 30 minutes had small increase in blow to 1/2" in bucket. Stabilized 1/2" in bucket after 40 minutes. RECOVERY: 127' water + 3' oil. SAMPLER: at 40 psi, 2500 cc water with trace of oil. PRESSURES: BOTTOM: IHP 2688; IFP 54; FFP 81, ISIP 135; IFP 81; FFP 108; FSIP 162; FHP 2688.

DST #4 10186-10211' (25'): WOLFCAMP: TO 30"; SI 60"; TO 90"; SI 240". Opened tool with weak blow 2" in bucket. Increased to 3 1/2" in bucket in 20 minutes and remained. Reopened with strong blow, 1/4 psi at surface. Increased to 1/2 psi in 20 minutes; 3/4 psi in 20 minutes with strong blow. In 60 minutes, pressure increased to 1 psi; 1-1/4 psi in 70 minutes and remained. RECOVERY: 36' oil, 57' water with oil cut and 87' water. SAMPLER: 1200 cc oil, 800 cc water, .27 cfg, 120 psi. Gravity: 45°. BHT: 178°. PRESSURES: BOTTOM: 1st open - IHP 4780; IFP 90; FFP 108; ISIP 2147; 2nd open - IFP 126; FFP 144; FSIP 3830; FHP 4780.

DST #5 10857-10292' (72') KEMNITZ: TO 30"; SI 90"; TO 60"; SI 180". Opened tool with weak blow on bubble hose. In 5 minutes had 2" on bubble hose. Increased 4" on bubble hose in 20 minutes and stabilized. Reopened with 1/4 psi at surface with weak blow. Bubble hose reached bottom of bucket in 15 minutes with weak blow. RECOVERY: 1' oil and 70' drilling fluid. SAMPLER: 75 cc oil and 1925 cc drilling fluid, 110 psi. BHT: 180°. PRESSURES: 1st open - IHP 5527; IFP 131, FFP 113; ISIP 349; 2nd open - IFP 113; FFP 113; FSIP 632; FHP 5404.

DST #6 1173-11240' (67') SOMBRERO WOLFCAMP: TO 30"; SI 90"; TO 30"; SH 120". Opened tool with weak blow on bubble hose (1 1/2"). Decreased to 3/4" in 15 minutes, 1/2" in 25 minutes. Reopened tool for final flow. Opened tool, no blow at surface. RECOVERY: 210' drilling mud. SAMPLER: 2450 cc drilling fluid; 10 psi, .02 cfg. BHT: 161°. PRESSURES: BOTTOM: 1st open - IHP 5641; IFP 173; FFP 173; ISIP 216; 2nd open - IFP 173; FFP 173; FSIP 216; FHP 5553.

DST #7: MISRUN.

YATES PETROLEUM CORPORATION

DRILL STEM TESTS (CONT'D)

Hoover ADR State #1 LG-3345

Unit I, Sec. 1-T17S-R33E

Lea County, New Mexico

DST #8 11287-11371' (84') SOMBRERO WOLFCAMP: TO 15"; SI 60"; TO 60"; SI 180". Opened tool with weak blow 1/2" in bubble hose. Increase to 1" in bubble after 5 minutes. In 15 minutes decreased to 1/2" in bubble with very weak blow. Re-opened tool with very weak blow. in 5 minutes had 1" in bubble with 1 psi. Decreased to 3/4" in 30 minutes then to 1/2" in 50 minutes. RECOVERY: 60' drilling mud. SAMPLER: 2400 cc drilling mud, 100 psi (no gas). BHT: 156°. PRESSURES: BOTTOM: IHP 5562; IFP 80; FFP 80; ISIP 180; IFP 80; FFP 80; FSIP 280; FHP 5550.

DST #9 11596-11649' (53') SEAMAN: TO 15"; SI 60"; TO 60"; SI 180". Opened tool with very weak blow 1" in bubble hose. Increased to 1-1/2" in bucket in 10 minutes and remained. Re-opened with very weak blow. In 10 minutes had 1/2" in bucket; in 20 minutes 1"; 30 minutes 1-1/2". Decreased to 1" in 50 minutes and remained. RECOVERY: 100' drilling mud. SAMPLER: 1800 cc drilling mud, 40 psi. BHT: 156°. PRESSURES: BOTTOM: 1st open - IHP 5852, IFP 82; FFP 82; ISIP 5463; IFP 95, FFP 95, FSIP 5601; FHP 5789.

DST #10 11668-11825' (157') SEAMAN: TO 5"; SI 60"; TO 60"; SI 180". Opened with weak blow, 1" on bubble. Re-opened with weak blow, 2" on bubble. SAMPLER: 6.5 cfg, 20 cc oil, 100 cc mud at 950 psi. RECOVERY: 160' drilling fluid, slight gas and oil cut (trace oil). PRESSURES: BOTTOM: 1st open - IHP 5946; IFP 121, FFP 121; ISIP 631; 2nd open - IFP 121, FFP 146; FSIP 1370; FHP 5920.

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

4. Type of Service: ☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail
Article Number: P241345559

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X
6. Signature - Agent
X
7. Date of Delivery

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

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

PS Form 3811, July 1983

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

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

3. Article Addressed to:
Williams & Son Cattle Co.
% Billy Williams
P.O. Box 30
Maljamar, NM 88264

4. Type of Service: ☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail
Article Number: P241345561

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X
6. Signature - Agent
X
7. Date of Delivery

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

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

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

4. Type of Service: ☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail
Article Number: P241345560

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X
6. Signature - Agent
X
7. Date of Delivery

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

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

PS Form 3811, July 1983

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

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

3. Article Addressed to:
Tenneco Oil Co.
7990 IH IO West
San Antonio, TX 78230
ATTN: Rex Bourland

4. Type of Service: ☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail
Article Number: P241345558

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X
6. Signature - Agent
X
7. Date of Delivery

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

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

PS Form 3811, July 1983

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

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

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

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

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

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

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

PS Form 3811, July 1983

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

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

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

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

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

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

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

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

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

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

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

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

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery

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

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

DOMESTIC RETURN RECEIPT

Schlumberger		COMPENSATED NEUTRON LOG	
COUNTY	LEA	COMPANY	H.L. BROWN, JR.
FIELD & LOCATION	STATE "B" #2	WELL	STATE "B" #2
WELL	STATE "B" #2	FIELD	MW VACUUM
WELL	STATE "B" #2	COUNTY	LEA STATE NEW MEXICO
Location	990' FSL & 330' FWL,	Other Services	
Sec. 6	Top. 17-S	Age	34-E
Permanent Datum	G.L.	Rev.	4136
Log Measured From	K.B.	12 Ft. Above Perm. Datum	
Drilling Measured From	K.B.		
Date	10-31-73	Rev.	KA 4148
Run No.	ONE	D.F.	GL 4136
Depth-Driller	11120		
Depth-Logger	11104		
Ben. Log Interval	11103		
Top Log Interval	0		
Casing-Driller	8 5/8 @ 4700		
Casing-Logger			
Bit Size	7 7/8		
Type Fluid in Hole	CHEM		
Fluid Level			
Dens. Visc.	9.2 45		
pH Fluid Log	10 18.8 ml		
Source of Sample	PIT		
R _{sp} @ Mean Temp.	95 @ 60 °F		
R _{sp} @ Mean Temp.	9 @ 62 °F		
R _{sp} @ Mean Temp.	@ °F		
Source R _{sp} R _{sp}	M		
R _{sp} @ BHT	4 @ 140 °F		
Time Since Circ.	1 1/2 HOURS		
Max. Rec. Temp.	150 °F		
Equip. Location	7679 HOBBS		
Recorded By	WILSON		
Witnessed By	GOODWIN		

Reproduced By
Electrical Log Service
 MCKINNEY, TEXAS 75061

EATER BROTHERS
GEOLOGICAL FILE

REFERENCE W 8588F



20 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

API NO. 30-025-24491

CASING RECORD

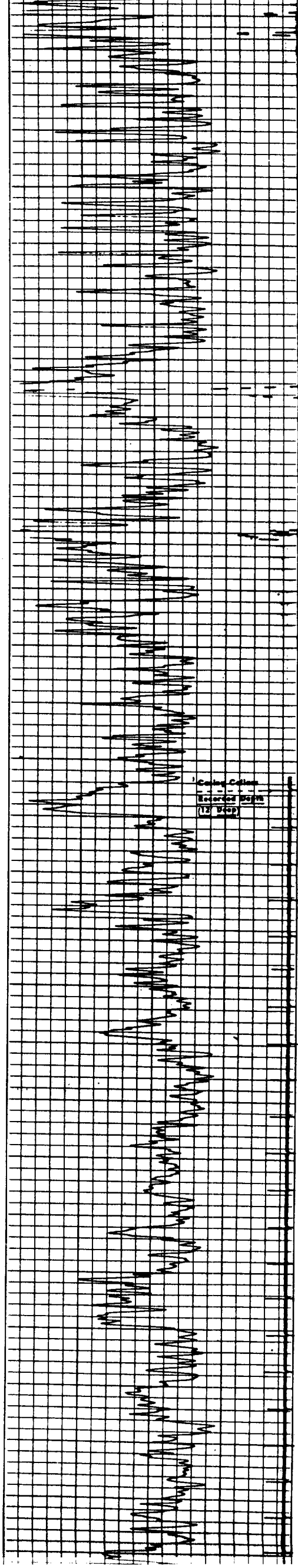
PERFORATING RECORD

ACID FRAC SHOT

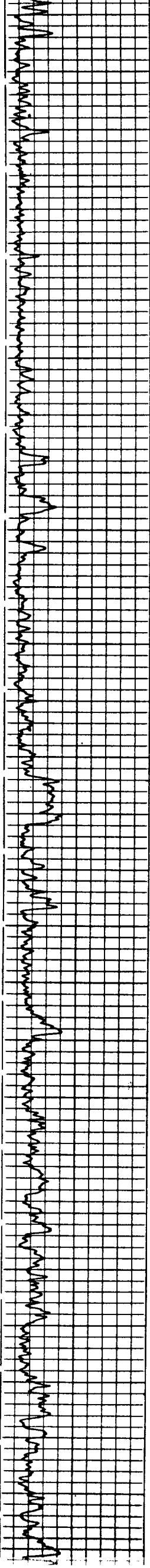
IP

60R

6R



3000 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400



LEA COUNTY	NEW MEXICO	KEMNITZ-WOLF C FLD
Well: TENNESSEE GAS TRANS. CO. #1 State Phillips	Result: OIL	
Loc'n: 25-16S-33E; 660' FSL 1980' FSL of Sec. (Corrected from 61-4).	Unit I	
Spud: 6-18-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; FB: 10,834' Casing: 13 3/8" 364', 8 5/8" 4536', 5 1/2" 10,980' Comp Info: (Wolf) T/Pay 10,772'; Prod thru perfs 150/ 10,772-829' IPF: 312 BOPD, 14/64" ch, Grav 42 Comp Info: Casing 10,912-921', rec 9' blk ch & sh, 1' 11" & sh; Perfs 10,838-835'; A/300 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 BOPD & WCM, rec 20' & 20' oil below sub, FP 2370-35206, SIP 51124/45 min; Perfs 84/10,838-835' & 150/10,866-896'; send; 100/10,772-804' & 90/10,811-829'; A/3000 gals. Tops: Not available		
Date: 4-18-58	Card No.: 25	EM es

LEA COUNTY	NEW MEXICO	KEMNITZ-WOLF C FLD
Well: TENNESSEE GAS TRANS. CO. #1 State Phillips	Result: OIL	
Loc'n: 25-16S-33E; 1980' FSL 660' FSL Sec	Unit I	
Spud: 6-18-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; FB: 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' IPF: 312 BOPD thru 14/64" ch, Grav 42 Comp Info: Perfs 160/10,772-804', 90/10,811-829', 84/10,838- 896', 150/10,866-896'; A/3000 gals; DST 10,714-927', op 5 hrs, used 3000' WB, rev out 5 BOPD, rec below sub 20' SW & 30' oil, FP 2370-35206, SIP 51124/45 min Tops: Not available		
Date: 10-2-57	Card No.: 25	EM es

LEA COUNTY	NEW MEXICO	KEMNITZ-WOLF C FLD
Well: PHILLIPS PET. CO. #3 New Mexico "A"	Result: OIL	
Loc'n: Sec 25-16S-33E, 1983' FSEELs Sec	Unit J	
Spud: 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' IPF: 400 BOPD thru 24/64" ch, grav 40, GOR: not reported Comp Info: A/1,000 gals Tops (ZL) Yates 2748', Queen 3675', San And 4480', Glor 5932', Tubb 7188', Abo 7945', Wolfe 9604'		
Date: 2-22-61	Card No.: 14	NM 1jb

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: 4153' 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, CP 310%
Comp Info: Perf 28/10,720-727' & 48/10,796-809' DST 10,700-844', op 3 hrs, gas in 82 min, rev out WB, 2952', oil & 210' NO&GCM, FP 2240-2500%, SIP 3165-2515' / 15 min; DST 11,400-843', op 90 min, rec 015' WB & 342' NO&GCM, FP 1240-1480%, 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', Polycamp 9600'.

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 O
Spud: 11-15-82; Comp: 3-19-84; Elev: 4153' Grd, 4177' DF; TD: 13,485'
Misc: PB: 12,675'
Casing: 13-3/8" 395' / 500sx; 8-5/8" 4552' / 1110sx; 5-1/2" 13,484' / 1750sx; 2-7/8" 10,923'
Prod. Zone: (Wolfe) 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/Wolfe) 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
Petroleum Information* Date 5-16-84 Card No 42 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 O
Spud: 6-12-58, Comp: 8-27-58, Elev: 4164' DF; TD: 11,610'
Casing: 13-3/8" 500 sx, 8-5/8" 4552' / 1160 sx
Prod Zone: None
IP: None
Comp Info: DST 10641-835', op 30 min, rec 2252' WB, 3 gals oil & 4120' SC&GCM, FP 1070-80%, SIP 1713' / 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' SC&GCM & 644' GCSW, FP 1225-1485', SIP 2975' / 15 min; C/Company Tools
Tops: (EL) Abby 1502', Yate 2756', Cusen 3997', San And 4503', Glor 5950', Tubb 7206', Abo 7966', Wolfe 9644', K Pay 10,813', Seaman 11,536'.

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

LEA COUNTY NEW MEXICO WILDCAT
 Well: SHELL OIL CO. #1-HT State Unit P Result: NEW OIL 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 9620' failure; 1 mi SW/depleted Penn producer.
 Spuds 5-1-65; Comm 8-13-65; Elev: 4234' DF; TD: 12,856'; BTD: 10,109'
 Casing: 13-3/8" 337'/300 sx; 9-5/8" 4142'/400 sx; 5-1/2" 10,338'/1110 sx
 Perf: 115 BOPD, + 2 bbls SW, 14/64" ch, Grv 44.9, GCR 1056-1, TP 11509
 Comm Infor: Ord 9855-9905', rec 50' being 15.5 li w/fluor & odor, trace oilz OGC, 1.5
 li, NS, 5' sh, 28' dense li; DST 9853-9905', op 2 hrs 6 mins, GTS 3 mins, OTS 24
 mins, F/to pits 36 mins. F/53 BO/1 hr 6 30 mins. 1/2" ch, Grv 11, TP 9801, GCR
 1140-1, rev out 13.75 BO. FP 985-20M4, DSP 3532#/1 hr 6 30 mins. FSP 1607#/2
 hrs: DST 10,185-264' (SP), op 27 mins, pkr leaked, rec 2160' HGC14, FP 539-4989, DSP
 3804#/1-1/2 hrs, FSP failed: DST 12,528-3411, op 2 hrs 6 3 mins, rec 20' DMG
 2645 div suit wtr, FP 279-1000, DSP 4912#/1-1/2 hrs, FSP 1645#/1-1/2 hrs; Perf
 9448-9863', A/300 galz: F/ 053 BO 6 2 BSW/19 hrs 8 15 mins 14/64" ch, C/Noble
 Drir Co.
 Tests: Pats 2747', Queen 3484', San And 4073', Abo 7640', Wolfe 9114', Wolfe E
 marker 9174', Bough "A" 9800', Miss li 11,950', Wafd 12,601', Silurian 12,645'

30
 OIL REPORTS

Date: 9-23-65

Card No.: 19 334 4

SEA COUNTY

NEW MEXICO

UNIT G

ELK OIL CO. 1 Penna Oil State

Revent: 2AA

U

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

Unit G

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

Casing: 13-3/8" 360' / 400sx; 8-5/8" 4460' / 2200sx

Logs: 1510', Yates 2815', Queen 3765', San And 4435',

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

Log No: 35-025-15033

Petroleum Information*

CORPORATION

A Subsidiary of A.C. Nielsen Company

Date: 5-16-84

Card No

16

1p

CO. LEA	POOL KEMNITZ	STATE N.M. KRÖNLEIN 200-57
WOLFCAMP		
COMPANY Tennessee Gas Trans. - #4 - State-A.A.		Elev. 4150 DI
LOC. 1980' FNL & 660' FNL Unit E		Kemnitz "A" 4150 DI
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	Abd 7964
		W.C. 9645
		L. W.C. 10281
		Casing + 421 3670
		SA - 321 4475

SPD. **7-16-57** COMP. **9-19-57**

I. P. **F. 376 BO/24 hrs., 20/64" ch.**

GR. **40.3 GOR 902 TP 500 CP pkr.**

REMARKS **1682 L**
4150
-6672

CONT'D. PAGE 2.

TP **10,710**
TD **10,893 L., ch.**
PBD **10,848**

K-200-57
PAGE 2.

LEA, N.M. 30-16-34
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".
PB 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	A.A. Kennitz "A"	ELEV. 4139
LOC. 1980' FSL & 660' FEL Unit I		
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- 4548-2100 5 1/2- 10536-470	Yates TOPS 2296 Queen 3688 Penrose 3997 S.A. 4516 Glor. 5990 C.F. 6596 Tubb 7209 Abo 7974 W.C. 9723 Woodr. 10324 TP 10,288 TD 10,970 P.S. 10,473
S.P.D. 10-8-58 COMP. 2-2-59		
I. P. P. 68 BOPD + 62 BXW		
GR. 39. GOR - TP CP		
REMARKS Perf. 10288-302 sub. 90% LW & mud; sqz. w/100 sx; Perf. 35/10288-295; wash w/750 acid, CONT'D. PAGE 2.		

LEA, N.M. 30-16-34 K-200-59
Tennessee Gas Trans. Co. - #6 - State A.A. Kennitz "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&SOCM; 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**
Loc'n: **10mi NE/Maljamar, Sec 30-16S-34E-2310 FSL-1480 FWL Sec Unit 4**
Spud: 6-22-81, Comp: 10-12-81, Elev: 4143' GL, TD: 13,350 (MSSP) PB: 13,304
Casing: 13 3/8" 391' / 875sx, 9 5/8" 4518' / 598sx, 5 1/2" 13,350' / 1525 sx, 2 7/8" 12,990
Prod Zone: (MRRW) T/Pay 13,250', Prod thru Perfs 13,250-266'
IPCAOF: 12,110 MCFGPD, Gty (Gas) .6751, Cond 50.6, SIWHP 4595, SIBHP 6981
Comp Info: Perf (MRRW) 13,250-266, (MRRW) 4PT: F/1088 MCFGPD, 6/64ch, 60mins, TP4541, F/1705 MCFGPD, 8/64ch, 60mins, TP4500, F/2524 MCFGPD 12/64ch, 60mins, TP4414, F/3121 MCFGPD, 16.5/64 ch, 60mins, TP4320 C/TOT#3
Tops: (EL) SADR 4510', Glorieta 5970' / Paddock 6590', Tubb 7200', Abo 7965', wolfcamp 9670', Strawn 12,118', Atoka 12,387', Morrow 13,272', Mississippian 1,854
API No: 30-025-27458



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 - ELEV. 4152 DF
LOC. 1980' FSL & FWL Unit K State AA Kemnitz "A"
Sec. 30, T.16-S, R. 34-E
10.850'

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

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.

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

CONT'D. PAGE 2.

30-16-34E K-200-57
Tennessee Gas Transmission Co. - #5 - State AA Kemnitz A
PAGE 2
PB 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 S+W/L 4141 c

Casing Record	TOPS
Csg. 4644	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/3000gals; 4pt TEST: F/
 302 MCFGPD, 60 mins, TP 2080#; F/395 MCFGPD, 60 mins, TP
 2015#; F/777 MCFGPD, 60 mins, TP 1782#; F/1003 MCFGPD, 60
 mins, TP 1532#, Chk (NR); BHT 201 deg @12,660

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

API No: 30-025-28174

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

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

LEA COUNTY NEW MEXICO VACUUM, N. FIELD

Well: MOBIL OIL CORP. 1 State "AD" Result: DEA 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, AC5L; C/MGF Drlg #9.

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

API No: 30-025-25867

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

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

LEA, N.M.		Pool: WILDCAT STATE N.M. KROENLEIN	
Company: Pennzoil Company - #1 - Gulf-State			
Loc. 660' FSL & FEL Unit P		Elev 4125 KB 4109 GR	
Sec. 32; T.16-S, R.34-E 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	TP 10,189(Penn)	
T.P. P. 216 BOPD		TD 14,585	
GR. 40. GOR 811	TP CP	PBD 10,800	
TOPS CONT'D.: Bend 12500; Miss. 13762; Woodf 14450; Dev. 14553.			
CONT'D. PAGE 2.			

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

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

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

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

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

DST 11520-657 op. 1 hr. 15 mins., rec. 3000' WB +
50' very 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 2 14551-585 op. 1 hr. 30 mins.; rec. 5900' salt

wtr.; FP 2960-5244; no ISIP; FSIP 5309/1 hr.

Perf 2 SPF: 10821-824; 500 gal. acid/10821-824';

swb. load; 1000 gal. acid/10821-824'; swb. 5

BO + 5 BW/2 hrs. & swb. down; 2500 acid/10821-

10824'; swb. back 71 BLW; 5000 acid/10821-824';

swb. 100 BAW w/trace oil; PB 10,800'.

Perf 1 SPI: 10724, 10726, 10732, 10734; 500 acid/

10724-734'; swb. load & 8 BNO; 1000 acid/10724-

10734'; swb. dry; 3000 acid/10724-734'; swb.

32 BO&AW/undes. time; 10,000 acid/10724-734';

F. 7 bbls. fluid/1 hr. (95% oil) & died.

Perf 1 SPI: 10189, 10191, 10195, 10197; 500 acid/

10189-197'; swb. 49 BLW/undes. time; 5000 gal.

acid/10189-197'; swb. 139 BAW + 6 BNO/6 hrs.;

15,000 acid/10189-197'. P. 216 BOPD

LEA POOL WILDCAT STATE N.M. KROENLEIN
OWWO
COMPANY Wilbanks & Rasmussen - #1 - L. C. Harris-State
(fmly. Texas Gulf Prod. Co. - #1 - ELEV. 4159 DF.
LOC. 1980' FNL & FWL Unit 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 sx; 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
		Kennite 10876
		Seaman 11620
		TP 11,733 L., sh.
		PERF 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 1 3737-59 rec. 22': 2' red sand; 20' gry. sd. w/SSO.

Core 2 3759-79 rec. 20': 1 1/2' gry. sand; 4 1/2' gray sand; 2' gray sand; 2' red sand; 2' anhy.; 1' red. shly. sd.; 8' anhy.

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

Core 4 4460-80 rec. 19 1/2' sd. dolo.

Core 5 4481-4531 rec. 50' sd. dolo. w/SSO.

Core 6 4581-4631 rec. 50' sd. & dolo.

Core 7 4631-81 rec. 50' sd. & dolo.

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

DST 2 5170-5280 op. 30 mins. rec. 130' SGCM; FP 70-95; SIP 1628/30".

DST 3 10383-468 op. 1 hr. rec. 690' 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. *limonite*
Core 9 10902-48 rec. 39' lime w/SSO in lower 5'.
Core 10 10949-11000 rec. 51' lime, shale.
Core 11 11640-658 rec. 9' lime, vert. frags. w/SSG.
Core 12 11658-680 rec. 19' lime vert. frags. w/SSG.
Core 13 11681-733 rec. 51 1/2' shale and lime.
DST 4 11625-733 op. 3 hrs. gas 5 mins. mud 1 hr. 15
mins.; mud cut dist. 1 1/2 hr.; rev. out 30 bbls.
Scanlon dist.; 30' dist. below sub; PP 643-855; SIP
3738/30". (only 8' poro.)
TD 11,733 L., shale; PB 5290'.
Perf. 15/5186-90
Perf. 60/5196-5216
Perf. 112/5224-58; A-1000 rec. load, ES; reA/2500; rec.
load, ES; reA/10,000 did not rec. load; sub. 83
bbls. XW + 1 bbls. 10/20 hrs.

CO. LEA		POOL WILDCAT		STATE N.M. KROENLEIN 614-58	
COMPANY Texas Gulf Prod. Co. - #1 - State L				ELEV 4163 DF	
LOC 660' P3L & PEL Unit P					
Sec. 2, T.17-8, R. 33-E					
4800'					
ACID OR SHUT		CASING RECORD		TOPS	
		13 - 388-450		Yates 2800	
				Queen 3730	
				S.A. 4534	
SPD 1-10-58		COMP 3-24-58			
I. P. P & A					
GR. GOR		IP		5270 L.	
REMARKS					
CONT'D. PAGE 2.					

LEA, N.M. 2-17-33 K-614-58
Texas Gulf Prod. Co. - #1 - State L. PAGE 2.

Core 4402-53 rec. 50'; 16' anhy. dolo.; 1 1/2' edy. dolo.;
5 1/2' sand w/bldg. oil; 2' edy. dolo.; 25' rlyn.
dolo.

Core 4453-4505 rec. 51' dolo. sand w/80 4468-72'.

Core 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) ^{Unit N}

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) 4604-16', A/
1500 gals, A/3000 gals

Tops EL: NR

API No: 30-025-25229



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



Phillips 66
CONVOLUTION
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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]

SPD

2-11-76

CMP

3-8-76

WELL CLASS:

INT

D

FIM

DO

FORMATION	DATUM	FORMATION	DATUM
TO 4618' (SADR)		and 4574'	

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

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

IP (Grayburg) Peris 4449-4551' P 100 BOPD.

Pot based on 24

hr test. GOR 1176; gty 35.4

COUNTY

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 Rivets 3128', Queen 3804', Grayb
4313', San And 4593'
API No: 30-025-25787

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Date: 6-7-78

Card No.: 5 dh

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
SPD. 12-4-59	COMP 12-30-59		
I. P. P & A			
GR. GOR	TP	CP	TP
REMARKS			TD 4830 dolo.
			PBD
	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.

Sec. 13-T175-R33E

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



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Date: 8-1-84 Card No.: 33 lp

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

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

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



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Date: 3-28-79 Card No.: 13 rm

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PETROLEUM INC. 26 Phillips "E" State Result: OIL DO
 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' FEL Sec 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 SPF; A/2000 gals; frac w/28,000 gals oil & 26,000# sd; P/22 BLO/24 hrs; P/23 BO/24 hrs; Ran CNDL & GRI 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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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
KROENLEIN

GRAYBURG-SAN ANDRES

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

ELEV. 4106 KB

LOC. 2086' FSL & 766' FWL Unit L

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

11,000' RT-Wolfe

PAY STIMULATION

PERF: 4701-
4707

CASING

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

TOPS

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

SPD. 10-3-71

COMP. 11-27-71

I. P. P. 6 B0 + 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 B0 + 15 BLW/24
hrs.

LEA		POOL		VALUES		STATE		M. M. KROENLEIN		751-61	
COMPANY Neville G. Penrose, Inc. - #4 - Phillips-Lea											
LOC. 330' PSL & FWL Unit M Sec. 4, T.17-3, R. 34-E											
ACID OR SHOT				CASING RECORD				TOPS			
				3 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											
GR. GOR TP CP								TR			
REMARKS								TD 4122 L.			
								PBD			
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
 -ABO KROENLEIN
 COMPANY J. C. Barnes Oil Co. - #1 - Lea-State
 LOC. 2029'FNL & 1980'FWL Unit F 112,585
 Sec. 5, T.17-S, R.34-E
 11,900'RT-Cisco ELEV. 4118 GR

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

LEA, N.M. B-5-17-34
 J. C. Barnes Oil Co. - #1 - Lea-State PAGE 2.

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. WOLFCAMP

B-5-17-34
KROENLEIN

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

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

1984
97-88

ELEV 4107 GR

PAY STIMULATION

PERF: 10781-
10940

CASING

13 3/8- 360- 375
8 5/8-4300-1300
5 1/2-11095-600
2 3/8-10715

TOPS

S. And 4647
Glor 6047
Tubb 7363
Abo 8070
Wolfe 9854
" pay 10894

SPD. 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 PKT
Perf: 2 SPI/10781, 10820, 10855,
10868, 10895, CONT'D. PAGE 2.

TP 10,781
TD 11,095
PBD 11,057

LEA, N.M.

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

B-5-17-34
PAGE 2.

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

30-025-23768

Co. LEA

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

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 pkr			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 1	1984	ELEV 4124 GR 4129 DF
Sec. 5, T.17-S, R.34-E		168,83	
11,900' RT-Cisco			
PAY STIMULATION		CASING	TOPS
PERF:	10867-878,	13 3/8- 374- 375	Anhy 1553
	10943-950	8 5/8-4294- 500	Yates 2810
		5 1/2-11060-300	Queen 3785
		2 3/8-10943	S.And 4636
			Glor 6023
			Tubb 7350
SPD.	3-26-70	COMP. 6-1-70	Abo 8051
			Wolfe 9816
I. P.	F. 258 BO, no wtr./24 hrs.,		Penn 11220
	20/64" ch.		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		PPD 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 SO).

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	STATEN. MEX. KROENLEIN	766
COMPANY Repollo - #1-200 - State			Elev. 4112	
LOC. 660' PSL & 1980' ILL Unit O Sec. 5, Twp. 17, R. 34				
ACID OR SHOT	CASING RECORD	TCSA		
Shot 140 qts. fr. 4685-4721	10 3/4 - 2 58 - 125	TA	1500	
		TL	3900	
SPD. 7-15-44 COMP. 12-31-44				
I. P. Temp. Abd.				
GR.	GOR	TP	CP	
REMARKS	30 4685-4702		TP TO 4741 L PSD	

Sec. 6-T175-R34E

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 Ge. 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
 8.

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 SG 4618, SG 4637-40, 4897, SW 5012-20 alt wtr.		



BUREAU OF LAND MANAGEMENT
U.S. DEPARTMENT OF THE INTERIOR

COUNTY LEA **FIELD** Vacuum

OPR BROWN, H. L., JR. **STATE** NM

NO. 1 **LEASE** State "B" **API** 30-G25-23946

Sec 6, T-17-S, R-34-E **SERIAL** OWWO

2310' FSL, 860' FEL of Sec **MAP**

Unit I **CO-ORD**

RE 11-15-73 **MP** 12-6-73 **CLASS** ELEV L & S

SPD 11-15-73 **MP** 12-6-73 **FORMATION** **DATUM** **FORMATION** **DATUM**

CSG 11 3/4" at 345' w/400 sx 8 5/8" at 4665' w/250 sx 4 1/2" at 11,065' w/300 sx

TD 11,065' **PBD** 4657'

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

CONTR OPRS ELEV 4139' KB **PD** 4657' **TYPE** WO

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
-WOLFCAMP
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-Wolfe.

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.		
GR. 41. GOR 2040 TP DST 10890-990 1000'WB, op. 4 hrs. CONT'D. PAGE 2.		TP 10,754 TD 11,065 PBD

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

B-6-17-34
PAGE 2.

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

Perf: 1 SPF/10754-762; 10896-900; 10907-911;
10932-946; 10948-954'; 3000 gal. acid, had
commun. with top perms; release pkr & re-
ran tbg & pkr/10,859'; swb. 60 BL&AW/6 hrs.;
swb. 35 bbls. LW + 14 BNO/7 hrs.; 2500 gal.
CONT'D. PAGE 3.

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

B-6-17-34
PAGE 3.

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

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

Geological Information

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COUNTY	LEA	FIELD	Vacuum, NW.	STATE	NM
OPR	BROWN, H. L., JR.	API	30-025-2449		
NO.	2	LEASE	State "B"	SERIAL	
	Sec 6, T-17-S, R-34-E	MAP			
	990' FSL, 330' FWL of Sec Unit M	CO-OP			
		CLASS	GL	ELE	
SPD	9-20-73	CMP	12-27-73		
CSG	11 3/4" at 387' w/400 sx	FORMATION	DATUM	FORMATION	DATUM
	8 5/8" at 4700' w/250 sx				
	pulled 1245' of 8 5/8"				
		TD	11,120'	PBD	6025'

TEMPORARILY ABANDONED

4650 pl comp

F.R. 8-20-73
(Wolfcamp)
9-26-73 Drlg 3755'
10-3-73 Drlg 5128' 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
BROWN, H. L., JR.

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

NM
Page #2

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



Date: 10-3-84

Card No.: 17 dh

CO. LEA POOL WILDCAT STATE: LEA KRONELEIN 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

SFD. 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 -300 by Symphonie
TP 4644
TD 5016
FSD 4685

LEA, NEW MEXICO 6-17-34 PAGE #2
Repollo Oil Co. - #1 - State - #197"
AA Sub. 30 BOs F 40 BO/12 hrs thru casg.
BO 3810-15 odor, 3860-65, 80 4650-60 BO&G 4644-63
INCO&G 4677-80, SW 5850-40, 400' alt W 5 hrs,
5006-16 Sltly Sul W 1 BHPH

LEA COUNTY NEW MEXICO NACUUM, NW. FIELD
Well: PENNZOIL CO.1 Sinclair State"6" OWWO Result: D&A D
Locn: 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.

Petroleum Information Corporation Date: 11-11-81 Card No.: 46 mja

LEA COUNTY NEW MEXICO NW. VACUUM FIELD
Well: PENNZOIL CO. 1 Sinclair State"6" Result: D&A D
Locn: 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+41/2 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
Petroleum Information Corporation Date: 10-28-81 Card No.: mja

LEA COUNTY NEW MEXICO STATE N.M. P-6-17-34
WOLFCAMP (S. KEMNITZ) KROENLEIN
COMPANY Pennzoil United, Inc. - #1 - Sinclair-State
"6" Elev 4139 KB
Loc. 660' FSL & 760' FEL
Sec. 6, T.17-S, R.34-E
12,000' RT-Penn.
PAY STIMULATION PERFS: 10938-10991
CASING 13 3/8-340-370
8 5/8-4293-482
4 1/2-11819-725
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
11345.
CONT'D. PAGE 2.
TOPS: Anhy 1548
Salt 1661
Yates 2812
7 Rivs 3138
Queen 3797
S. And 4622
Glor 6020
Padd 6106
Tubb 7358
Abo 8069
TP cont'd.
10,938
TD 11,819
PBD 11,784

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' slt. 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
 COMPANY Magnolia Pet. Co. - #1-X - State ELEV. 4120
 Loc. 330' FHL & 330' FEL Unit A
 Sec. 7, Twp. 17S, R. 34E

ACID OR SHOT	CASING RECORD	TOPS
Acid: 4000 gals.	9 5/8 - 1560 - 730 7 - 4660 - 700	TA. 1530 T.S. 1660 B.S. 2640 T.Y. 2830 Br.L. 3050 T.S.A. 4345
S.P.D. 3-11-48 COMP. 5-10-48		
I. P. F. 111 BOPD thru 24/64" TO on 2"		TP 4660
GR. 35.8 GOR 1164 IP 125 CP		TD 6479 wh sd.
REMARKS		P.S.D. 4674
CONT'D PAGE #2		

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

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

Sec. 7-T175-R34E

LEA		POOL VACUUM	STATE N.M. KROENLEIN 741-61
COMPANY Socony Mobil Oil Co., Inc. - #4 - State		Elev. 4132	
LOC 660' PHL & 1980' FEL Unit B		"X" (faily. Magnolia	
Sec. 7, T.17-8, R. 34-E		- #4 - State "X",	
		SER: CARD #669-57 for orig. drlg.)	
ACID OR SHOT	CASING RECORD	TOPS	
Natural OH/4638-4703	old 5 -4638-1300		
SPO. re-	COMP. 10-19-61		
I. P. P. 8 BOPD			
GR. - GOR - TP	CP	TP 4638	
REMARKS		TD 4703	
		PBO	

LEA		POOL W. VACUUM	STATE N.M. KROENLEIN 669-57
COMPANY Magnolia Pet. Co. - #4 - State "X"		Elev. 4132 DP	
LOC. 660' PHL & 1980' FEL			
Sec. 7, T. 17-8, R. 34-E			
4750'			
ACID OR SHOT	CASING RECORD	TOPS	
	8 - 1570 200	Anhy.	1545
	5 - 4638-1300	Salt	1660
		S. Salt	2738
		Yates	2846
		Queen +338	3792 3704
		S.A. -480	4612
SPO. 6-15-57	COMP. 7-17-57		
I. P. Temp. Aband.			
GR. GOR TP	CP	TP	
REMARKS		TD 4703 dolo.	
		PBO	
CONT'D. PAGE 2.		CR-U	

LEA, N.M. 7-17-34 K-669-57
 Magnolia Pet. Co. - #4 - State "X". PAGE 2.

Core 4639-78 rec. 39': 11' dolo., 3' dolo. w/poro.,
 6" dolo.; 5 1/2' dolo. w/poro., bldg. oil; 4'
 dolo.; 1' dolo. w.por. bldg. oil; 14' dolo.

Core 4678-4703 rec. 22' dolo.

CH. LEA POOL UNDES. STATE N.M. P-7-17-34 CISCO 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 PERF: 11711- 11753	CASING 13 3/8- 348- 350 8 5/8- 4304- 814 4 1/2- 11888- 1035 2 3/8- 11660	TOPS Anhy 1557 Yates 2820 Queen 3810 S. And 4618 Glor 6031 Tubb 7323 Abo 8124 Wolfe 9920 Penn 11400
SPD. 5-3-69 I. P. F. 540 BO, no wtr/24 hrs., 16/64" ch. GR 42.5 GOR 1089 TP 1100 CP pkr DST 10845-862 op. 2 hrs. 15 mins., rec. 80' hvy. O&GCM (Gr. 39); 1200' gas in DP; CONT'D. PAGE 2.	COMP. 6-29-69 TP 11,711 TD 11,888 PBD	

LEA, N.M. P-7-17-34
 Pennzoil United, Inc. - #1 - Mobil-State "7" PAGE 2.
 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 CFGPD, GOR 353; rev. out 25 BO (Gr. 44.); FP 1595-4067; ISIP 7975/90 mins.; FSIP 7905/2 1/2 hrs.
 Perf 1 SPI/11711, 11715, 11717, 11721, 11742, CONT'D. PAGE 3.

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

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

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

Co. LEA POOL WEST VACUUM STATE N.M. KRÖENLEIN 1143-57
MAY 17 1957
COMPANY Magnolia Petr. Co. - #3 - State "X" ELEV. 4132 D

LOC. 1980' FNL & FEL Unit G
Sec. 7, T. 34S, 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 BOR 1175 TP CP		TP 4640 TD 4730 Sh., Dol.
REMARKS Core: 3800-15, rec. 1' sd, vy fine gr. sh. gr, shly. w/tr. red sh. Core: 4641-51, rec 9' dolo. w/some anhy.		
		CON'T. PAGE 2

175 K-1143-57
LEA, N.M. 7, 34-S, 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 BLOT	CASINO RECORD	TOPS
9000 gals. Acid	9 5/8 - 1805 -500	T.A. 1530
	7 - 4840 -600	B.S. 2660
		T.Y. 2810
		T.Br.L. 3030
		T.Gr.Brg. 4320
		T.S.A.-497 4800
B.P. 12-15-48	Comp. 3-1-49	
I. P. P. 50 BO/24 thru 2" @ 4658		
BR-30.9 GOR 491 TP	CP	TP 4841
REMARKS AA SWb. 18 BO & 16 BAW/24 hrs.		TD 4658L
		PROD

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 MFCFDP, 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 MFCFDP, 1" ch, frac w/16,000gals @ 45,000# sd; F/635 MCF-GPD @ 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 MFCFDP; Ran CNL, FDC BHC & DILL logs; BHT 166 deg; C/Marcum.

Tops: (EL) Rustler 1561', Yates 2832', Queen 3828', San And 4612', Glor 6039', Tubb 7392', Abo 8780', Wolfe 9823', Penn 10,672', Strawn 12,208', Atoka 12,708', Morrow 12,950'

API No.: 30-025-25409

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

SV-027-24131 Co. LEA POOL VACUUM STATE N.M. W-7-17-34

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

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

ELEV 4115 GR
4126 KB

PAY STIMULATION PERF: 4644- 4673	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 I. P. F. 22 B0, no wtr./24 hrs., 28/64" ch. GR. 34. GOR 1200 TP 40 CP pkr PB 4690! CONT'D. PAGE 2.	COMP. 8-11-72	TP 4644 TD 4703 RBD 4690

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')

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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. 10-		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/				TD	11,825
10929-930', CONT'D. PAGE 6.				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, N.M. POOL WILDCAT STATE N.M. KROENLEIN P-8-17-34
(CISCO DISCOVERY)
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)
TP 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.

P-8-17-34
 LEA, N.M. PAGE 4.
 Pennzoil United, Inc. - #1 - Gallagher-State "8"
 FP 43-43; ISIP 1845/1 hr.; FSIP 215/3 hrs.
 DST/O 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 4830	
Perf. 2. 1602		T.A. 1540	
		T.S. 1875	
		J.S. 2670	
		T.Y. 2880	
BPD. 6-23-48 COMP. 8-11-48		SA -512 Symp	
I. P. P. 48 BO/24 thru 2" O 4649		TP 4840	
GR. 34 GOR TP CP		TD 4849L	
REMARKS		PBD	

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 - 4820 -150		
BPD. 7-24-48 COMP. 8-31-48			
I. P. F. 45 BO/24 thru op. 2" O 4654		TP 4841	
GR. GOR TP CP		TD 4854 L	
REMARKS		PBD	

Co. LEA		POOL VACUUM	STATE N. MEX KROENLEIN 640
COMPANY Delfern Oil Co. - #1-A - Lea-State		Elev. 4113	
Loc. 1980' FHL & FHL (C SE NW) Unit F Sec. 8, Twp. 17-S, R. 34E			
ACID OR SHOT	CASING RECORD	Tops	
Total Acid:	8 5/8 - 315 - 150	T.A. 1550	
9000 gals.	5 1/2 - 4299 - 750	T.Yates 2880	
	2 - 4720	T.S.A. - 5th 4646-4629	
		Down? 4623 3550	
BPD. 10-5-47 COMP. 1-12-48			
I. P. F. 111 30/8 hrs 1" chk, 2" C. 4720		TP 4673	
Gr. 37 GOR 1041 TP-0-200 CRPKR 4660		TD 4723-L	
REMARKS CONT'D PAGE #2		PBD	
		SA 109	

K-640

PAGE #2

LEA, NEW MEXICO 8-17-34

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

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

Co. LEA		POOL VACUUM	STATE N. MEX KROENLEIN 641
COMPANY Delfern Oil Co. - #2-A - Lea-State		Elev. 4109	
Loc. 1980' FSL & FHL Unit K Sec. 8, Twp. 17-S, R. 34E			
ACID OR SHOT	CASING RECORD	Tops	
Acid: 9000 gals.	8 5/8 - 335 - 150	A. 1550	
	5 1/2 - 4580 - 900	T.S. 1680	
		B. S. 2680	
		T.Y. 2885	
		T.Red Sd. 3820 3857	
		T.Wh.L. - 517 4645 4630	
BPD. 5-18-48 COMP. 7-11-48			
I. P. P after acid 54 BOPH		TP 4676	
Gr. GOR TP CP		TD 4691 L	
REMARKS Tr. 9500 gals. 4676-4691 swb.		PBD	
3 BOPH for 10 hr. thru 2" w/pkr. C 4615		CR-N	

Sec. 8-T175-R34E

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



STATE OF NEW MEXICO
DEPARTMENT OF ENERGY
A Division of the New Mexico State Office

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COUNTY **IEA**

OPN **SOUTHERN UNION SUPPLY CO.**

NO **2** LEASE **Gallagher "8" State**

Sec 8, T17S, R34E

660' FSL, 660' FWL of Sec Unit M

3 mi N & 5 mi W/Buckeye

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

SFD **CMP**

CSG

FIELD **Vacuum, N.**

STATE **NM**

API **MN 22198**

SERIAL **3-4-19 NM**

MAP

CO-ORD

ELEV

WELL CLASS: **DD**

FIN **DC**

FORMATION	DATUM

TD **13,510' (MSSP)** PBD **13,400'**

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

CONTR **Cactus #22**

OPN'S ELEV **4104' CL, 4127' KB**

PD **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 Pennzsil United, Inc. as #2 Gallagher "8" State, OTD 11,998')

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

12-1-75 Dr lg 12,625'

12-8-75 Dr lg 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'; PRD 13,400'; Tstg
Perf (Morrow) @ 13,181', 13,231', 13,236', 13,238',
13,240', 13,242', 13,309', 13,311', 13,314',
13,316', 13,318', 13,360', 13,362', 13,364' w/1 SPI
3-4-19 NM

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

1-20-76 Continued

Acid (13,181-364') 8000 gals

2-13-76 TD 13,510'; PBD 13,400'; SI PBU

3-8-76 TD 13,510'; PBD 13,400'; WO OCC Pot
Frac (13,181-364') 30,000 gals + 33,000# sd
+ 11,000# glass beads

CAOF 1760 MCFGPD (13,181-364')

3-22-76 TD 13,510'; PBD 13,400'; Complete

(Morrow) FOUR POINT GAUGES:

Flwd 455 MCFGPD, 1.25" orifice, 60 mins, TP
2520#

Flwd 622 MCFGPD, 1.25" orifice, 60 mins, TP
2190#

3-4-19 NM

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

Co. LEA POOL UNDES- STATE N.M. P-8-17-34
 OWDD KROENLEIN
 COMPANY Pennzoil United, Inc. - #2 - Gallagher State
 "8" (faly. 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	" 8 5/8- 4145- 500		Anhy	1560
				Yates	2826
				Queen	3825
				S. And	4610
				Glor	6045
				Tubb	7395
SPD. re-	COMP. 7-20-69			Abo	8077
I. P.	P & A			Wolfe	9715
				Hueco	10105
				Bo C	11071
GR. 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.

Co. LEA		Pool. WILDCAT	STATE N.M.	M-8-17-34
KROENLEIN				
COMPANY Monsanto Co. - #1 - Gallagher				
Loc. 660' FSL & FWL Unit M			Elev. 4118 DF	
Sec. 8, T. 17-S, R. 34-E			4104 GR	
11,500' RT-Wolfcamp & Cisco				
PAY STIMULATION		CASING		TOPS
PERF:		11 3/4- 350- 450	Glor.	6045
		8 5/8- 4145- 500	Abo	8077
			Wolfc	9715
			Hueco	10105
			Bo "C"	11071
			Anhy. (EL)	1560
			Yates	2826
			Queen	3825
			S. And	4610
			Tubb	7395
			Wolfc	9760
			TD	11,300
SPD. 7-24-67	COMP. 9-3-67			
I. P. P & A				
GR. GOR TP CP				
DST 11185-11260 op. 1 hr., weak				
blow, 1000' WB, rec. 910' WB; FP				
492-479; ISIP 973/1 hr.; FSIP 438 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'

IPP: 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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P Petroleum Information
CORPORATION
A Subsidiary of A.C. Nelson Company

Date: 6-22-77

Card No.: 10 mm

LEA COUNTY NEW MEXICO VACUUM N. FIELD
 Well: SOUTHERN UNION EXPL 3 Gallagher "8" State "OWWO" Result: OIL DO
 Loc'n: 5 mi NW/Buckeye; Sec 8-17S-34E; 660 FSL 1980 FEL of Sec
 (Orig. Cmp 5-30-77 thru (Morrow) Perfs 13,413-13,460',
 OTD 13,535, OPB 13,478) Unit O
 Spud: 5-28-85; Comp: 6-4-85; Elev: 4105' Grd, 4128' KB; TD: 13,535 Mssp;
 PB: 9462'
 Casing: 13-3/8" 362'/400sx; 8-5/8" 4755'/2100sx; 5 1/2" 13,535'/1000sx;
 2-3/8" 9045'
 Prod Zone: (Abo) Prod thru perfs 8846-8984'
 TPP: 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

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

Oct. 85:
 45% oil } 29 days
 10 wtk.

6/85 510/460
 7/85 554/367
 8/85 428/160
 9/85 452/150
 10/85 456/10

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', Wolfc 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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P Petroleum Information
 CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 6-15-77 Card No.: 15 rm

COMPANY B.T.A. Oil Producers - #1 - Union

Elev. 4107

LOC 660' PNL & 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';

PBID: 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 WILCOAT	STATE N. MEX.	KROENLEIN 771
COMPANY H.P. TAUBMAN - #1 - Sun-State		ELEV. Est	4122 D 4112C
LOG. 660 FINL & ENL 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	
SBD. 9-27-43	COMP. 1-3-44	SA - 405 by Symp.	
I. P. D&A			
GN. GOR TP CP		TP	
REMARKS SLN 4926-31 SN 4931-34, 5031-50		TO 5050	
		PBD	

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COUNTY	LEA	FIELD	Wildcat	STATE	NM
OPR	SOUTHERN UNION SUPPLY CO.			API	30-025-25256
NO	1	LEASE	Pennzoil State	SERIAL	8-4-14 NM
Sec 18, T17S, R34E				MAP	
1980' FNL, 660' FEL of Sec				CO-ORD	
5½ mi NW/Buckeye				ELEV	[REDACTED] L.S.B.
SPD CSG	3-14-76	CMP	8-9-76	WELL CLASS:	D WFD
				INT	FIN
13 3/8" at 350' w/425 sx 8 5/8" at 4750' w/1400 sx 5 1/2" at 13,545' w/1450 sx				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				FORMATION	DATUM
				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 PD 13,750' RT					

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

8-4-14 NM

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

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

8-4-14 NM

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

8-4-14 NM

IC 30-025-70067-76