

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

- IX. The planned completion program is to selectively perforate and stimulate with acid within the proposed injection interval 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 Nielson

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

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

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

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

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

Additional data submitted:

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

INJECTION WELL DATA SHEET

Yates Petroleum Corporation		State "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

(brand and model)

packer at 3700 feet

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Queen2. Name of Field or Pool (if applicable) None3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? oil and/or gas test4. 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 & Abandoned5. 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.

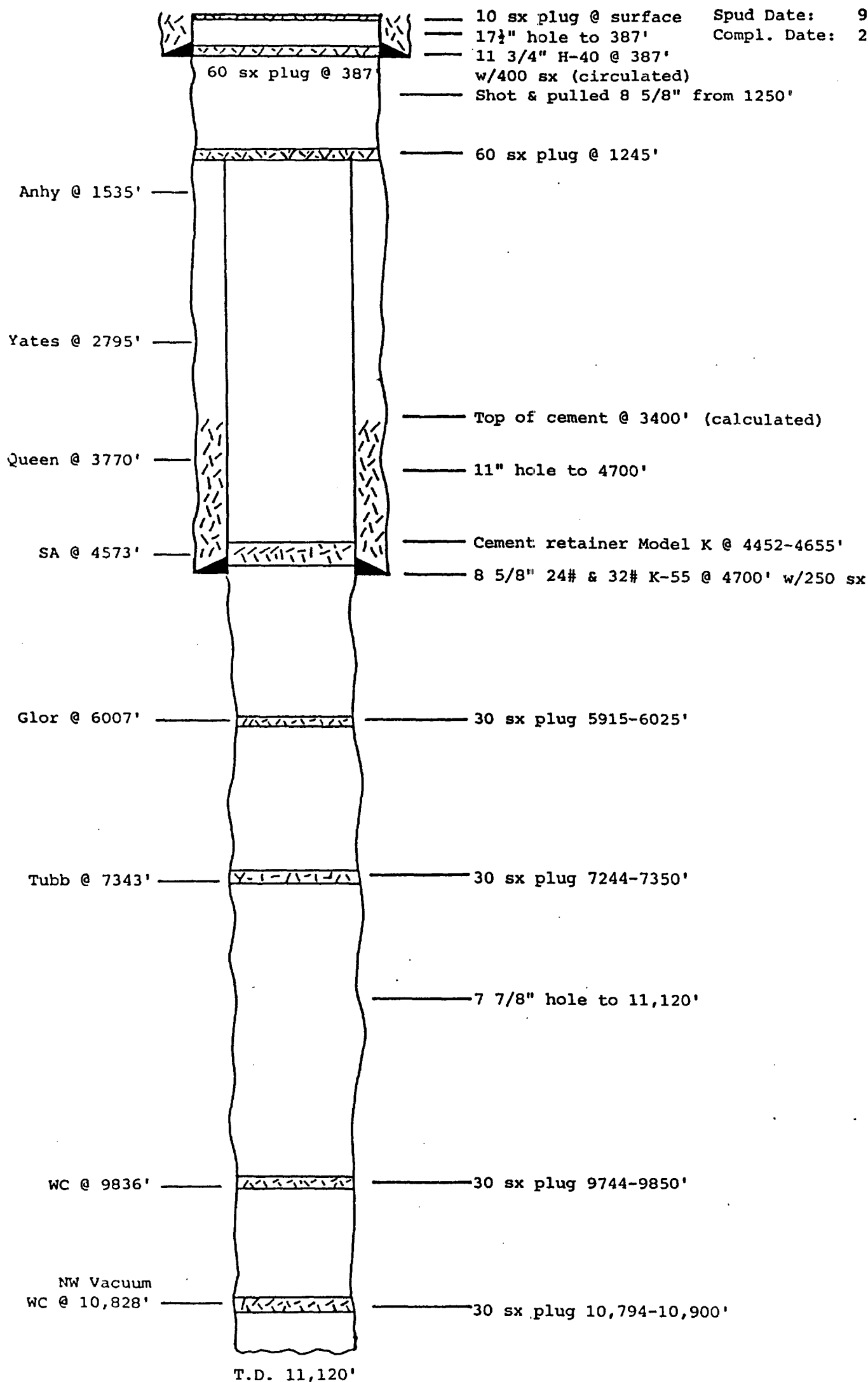
- (1). Yates Petroleum Corporation Hoover "ADR" State #1 1650' FSL & 990' FEL
This well was spudded on December 31, 1985. TD is 11825' - Penn.
Casing and cement: 13 3/8" in 17 1/2" hole set at 448' and cemented with 425 sacks, cement circulated to surface; 8 5/8" in 11" hole set at 4530' and cemented 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 BWPD.

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."

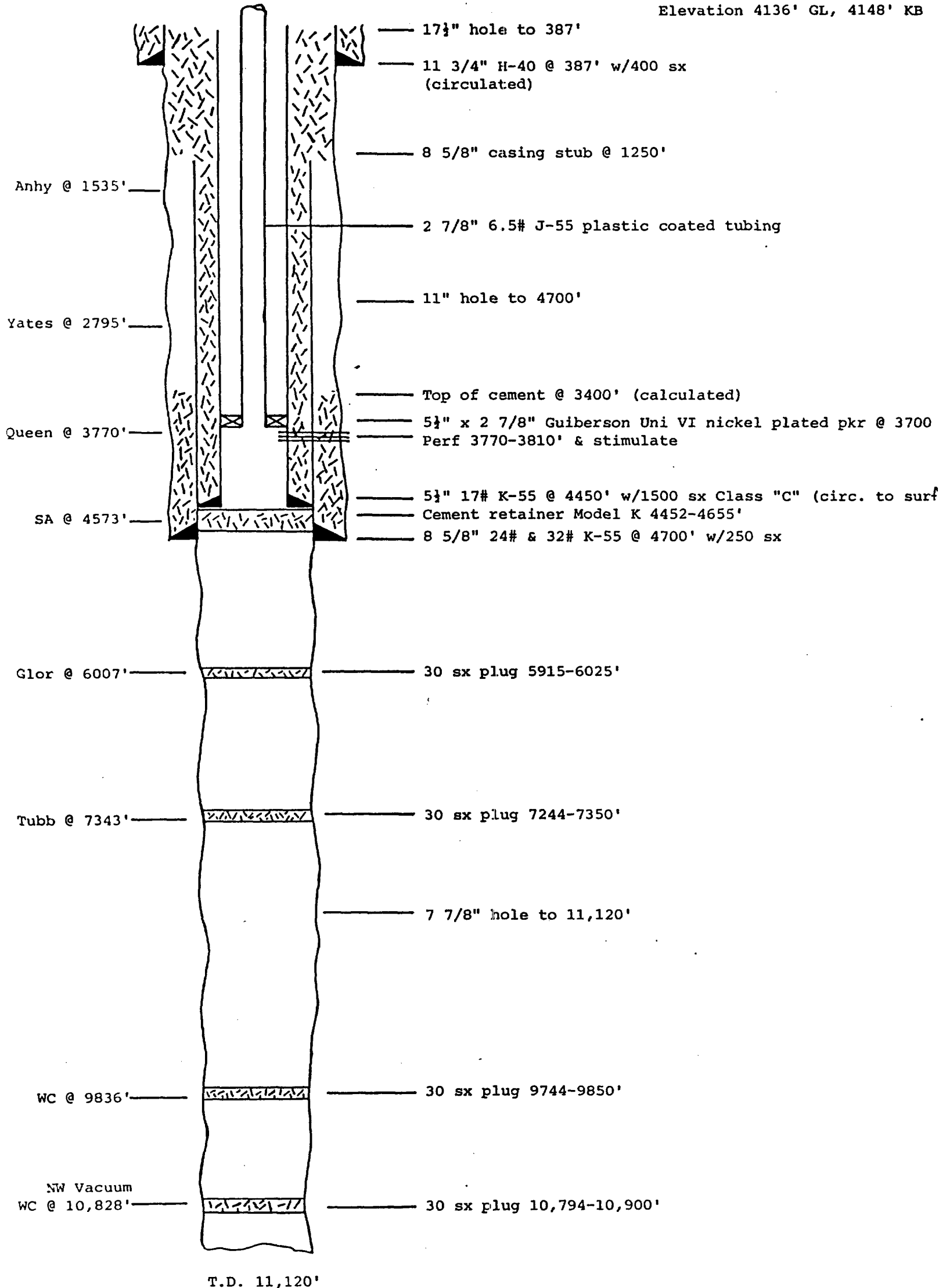
PRESENT WELL CONDITION

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

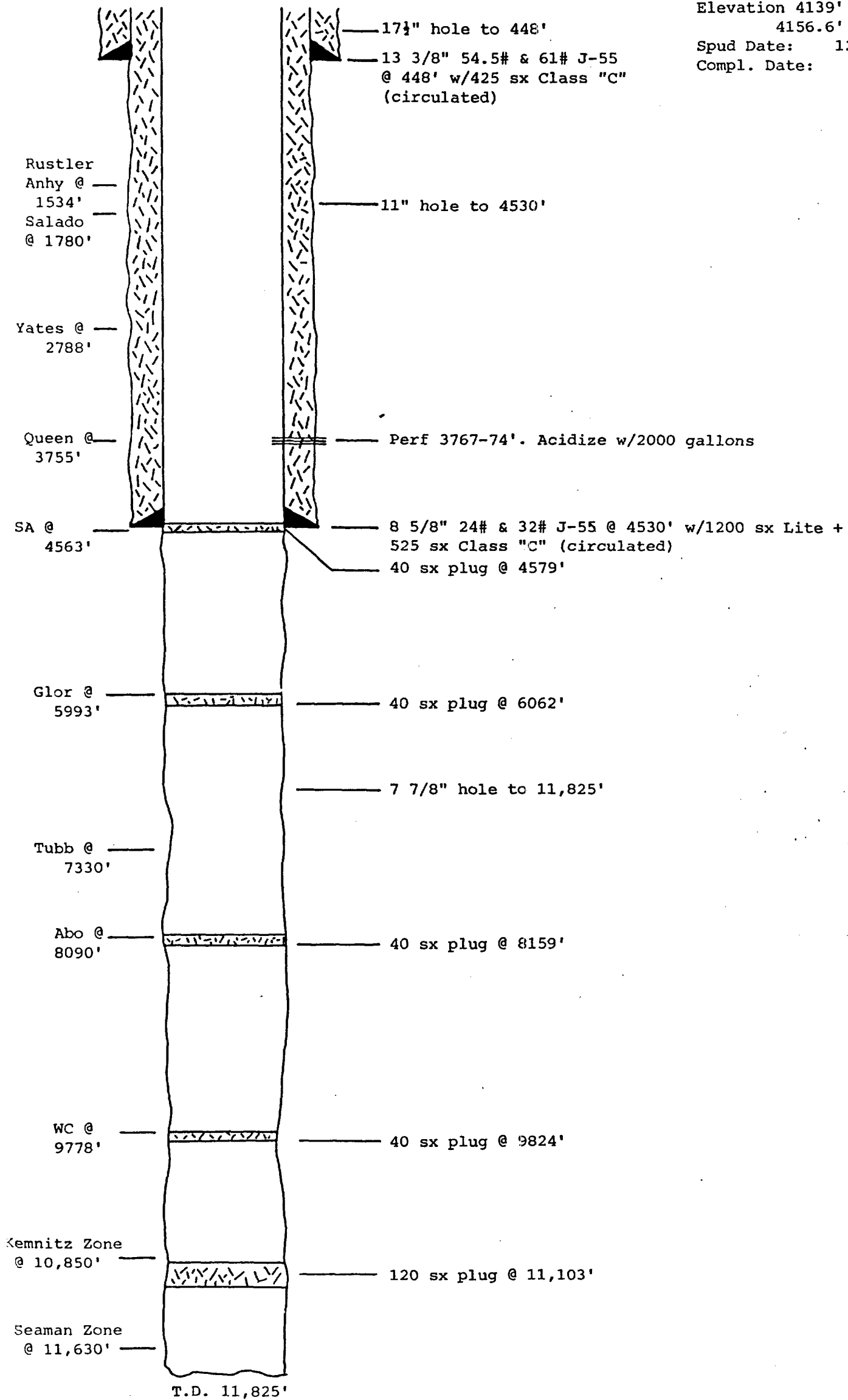


PROPOSED DISPOSAL WELL

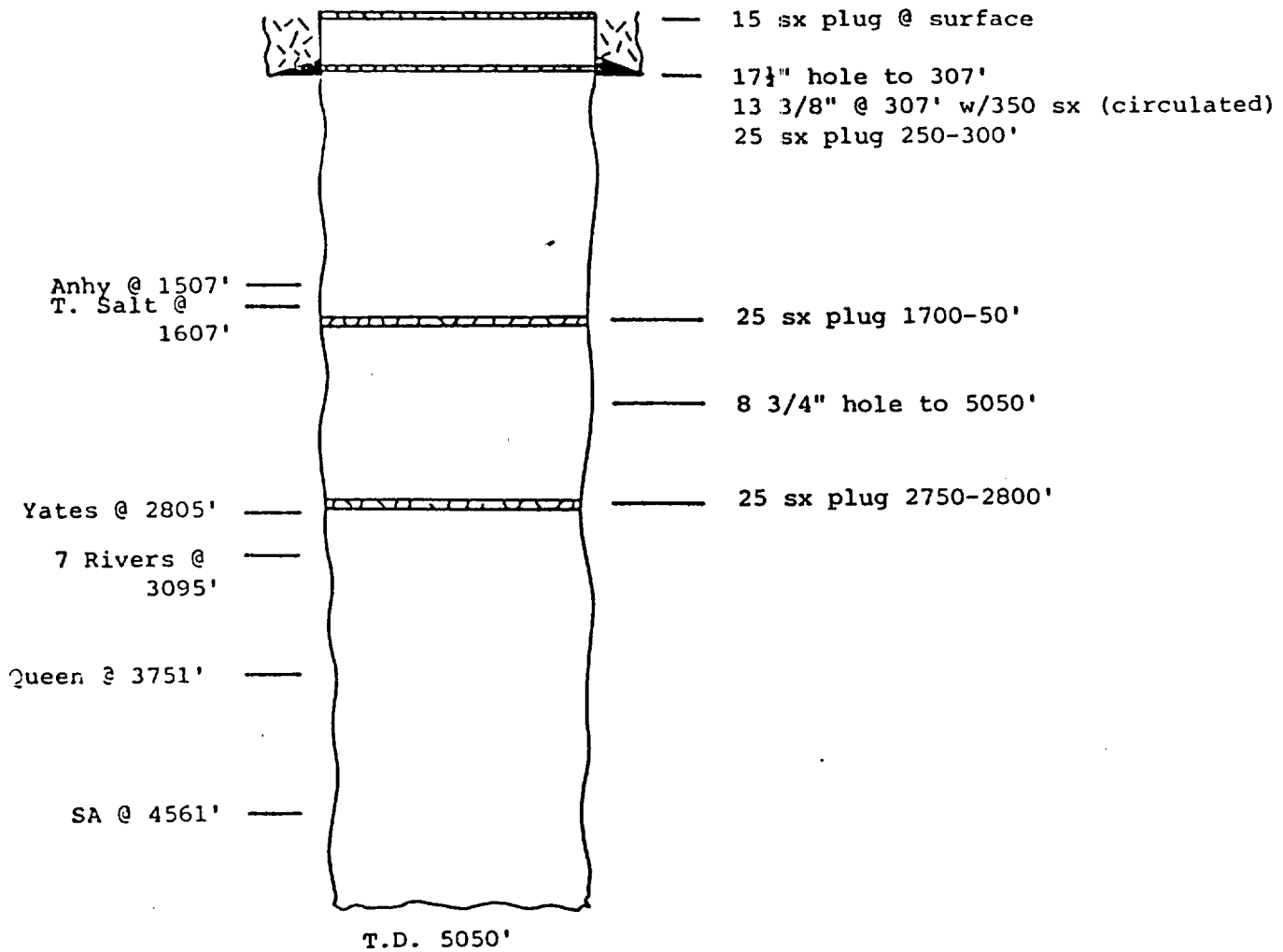
State "B" #2
 Sec. 6-17S-34E
 990' FSL & 330' FWL
 Elevation 4136' GL, 4148' KB



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.

WATER ANALYSIS

ANALYSIS NO.

OPERATOR *Yates*

DATE SAMPLED

WELL Hoover ADR SV #1

DATE RECEIVED 3-26-86

FIELD

SUBMITTED BY Ray Stoll

FORMATION

WORKED BY *David Lakin*

COUNTY

SAMPLE DESCRIPTION:

STATE

DEPTH

SPECIFIC GRAVITY *1.220*¹ AT *72* °F

TOTAL DISSOLVED SOLIDS _____ PPM

pH 6.5

RESISTIVITY 0.05 at 72 PPM

IRON Very Faint / Faint

SULFATE 2500 PPM

HYDROGEN SULFIDE *NONE*

BICARBONATE, 6 311 PPM

HARDNESS⁸⁰ 80000

CHLORIDE ^{9.0} 18000 PPM

CALCIUM^{2.0} 8006

SODIUM CHLORIDE 296100 PPM

MAGNESIUM⁶⁰ • 14580

SODIUM	PPM
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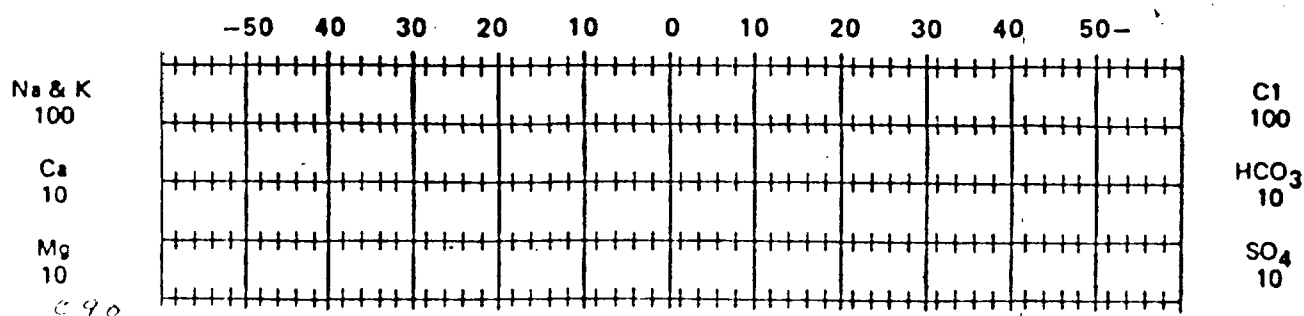
SODIUM & POTASSIUM

POTASSIUM - 0 - PPM

PHOSPHATE

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 Apple

Date: April 21, 1986

Yates Petroleum Corporation

207 South Fourth Street

Artesia, 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 #1

Fresh Water Well
UNIT F Sec 12, T. 17S, R. 33E.

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

Remarks:

*Milligrams per liter

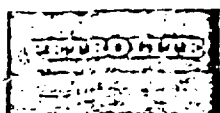
Rocky Chambers
Respectfully submitted,

Analyst: Rocky Chambers - Field Engineer
cc:

HALLIBURTON COMPANY

NOTICE

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



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

REMARKS _____

Respectfully submitted
PETROLITE CORP.

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LAND OFFICE	
OPERATOR	

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

Form C-105
Revised 1-1-65

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

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

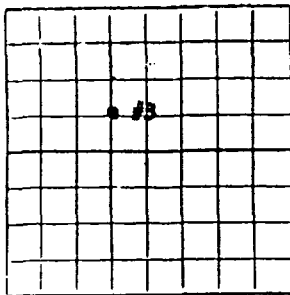
Southeastern New Mexico

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 Qtzte _____
T. Glorieta <u>6007 (-1859)</u>	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Elinebry _____	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 (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

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



AREA 640 ACRES
LOCATE WELL CORRECTLY

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

Sinclair Oil & Gas Company

State 197

(Company or Operator)

(Lease)

Well No. 3 in SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 6, T. 17S, 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, 1957 Drilling was Completed 4-19, 1957

Name of Drilling Contractor Cackel Drilling Company, Inc.

Address Fort Worth, Texas

Elevation above sea level at Top of Tubing Head 4130' The information given is to be kept confidential until _____, 19____

OIL SANDS OR ZONES

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

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

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

IMPORTANT WATER SANDS

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

No. 1, from _____ to _____ feet

No. 2, from _____ to _____ feet

No. 3, from _____ to _____ feet

No. 4, from _____ to _____ feet

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF 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-J Service Inc.		

RECORD OF PRODUCTION AND STIMULATION

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

DRY HOLE - PLUGGED AND ABANDONED

Result of Production Stimulation _____

Orig & L cc: OCC

cc: State Land Office

cc: FHB, HFD, File

Dent Cleaned Out

1. ORD OF DRILL-STEM AND SPECIAL TES

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

TOOLS USED

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

PRODUCTION

Put to Producing Plugged & Abandoned 19.

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

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

Length of Time Shut in

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

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy.	1507	T. Devonian	
T. Salt.	1620	T. Silurian	
B. Salt.		T. Montoya	
T. Yates	2805	T. Simpson	
T. J. Rivers	3095	T. McKee	
T. Queen	3751	T. Ellenburger	
T. Grayburg		T. Gr. Wash.	
T. San Andres	4560	T. Granite	
T. Glorieta		T.	
T. Drinkard		T.	
T. Tubbs		T.	
T. Abo		T.	
T. Penn.		T.	
T. Miss.		T.	
		T.	

FORMATION RECORD

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

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

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

C.C. Salter 5-6-57

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

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.O.S.	
LAND OFFICE	
OPERATOR	

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

1a. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐			
b. TYPE OF COMPLETION		8. Farm or Lease Name	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		Hoover ADR State	
2. Name of Operator		9. Well No.	
Yates Petroleum Corporation		1	
3. Address of Operator		10. Field and Pool, or Wildcat	
207 South 4th St., Artesia, NM 88210		Und. Queen	
4. Location of Well		12. County	
UNIT LETTER <u>I</u> LOCATED <u>1650</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM		Lea	
THE <u>East</u> LINE OF SEC. <u>1</u> TWP. <u>17S</u> RGE. <u>33E</u> NMPM			
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
12-31-85	2-15-86	4-10-86	4139' GR
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
11825'	4352'		Rotary Tools
			Cable Tools
			38-11825'
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made
3767-74' Queen			No
26. Type Electric and Other Logs Run			27. Was Well Cored
CNL/FDC; DLL			No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
20"		38'	24"
13-3/8"	61#	448'	17 1/2"
8-5/8"	32 & 24#	4530'	11"
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.	
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)	
3-4-86		Pumping	
Well Status (Prod. or Shut-in)			
Producing			
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
4-10-86	24	-	
Flow Tubing Press.	Coning Pressure	Calculated 24-Hour Rate	Oil - Bbl.
-	-		48
34. Disposition of Gas (Sold, used for fuel, vented, etc.)		Gas - MCF	
		TSTM	
		Water - Bbl.	
		496	
		Gas - Oil Ratio	
		36.4	
35. List of Attachments		Test Witnessed By	
Deviation Survey, DST's (10)		Norbert McCaw	
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 <u>Guillermo Doodler</u>		TITLE <u>Production Supervisor</u>	
		DATE <u>4-22-86</u>	

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 radioactivity 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		
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. Elinebry		T. Gr. Wash	T. Morrison		
T. Tubb	7330	T. Granite	T. Todilto		
T. Drinkard		T. Delaware Sand	T. Entrada		
T. Abo	8090	T. Bone Springs	T. Wingate		
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. 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.....

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

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> 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 <u>or</u> agent and <u>DATE DELIVERED.</u>	
5. Signature - Addressee X	
6. Signature - Agent X	
7. Date of Delivery	
8. Addressee's Address (<i>ONLY if requested and fee paid</i>) State "B" #2 & State 197 #3 SWD	

SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> 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 <u>or</u> agent and <u>DATE DELIVERED.</u>	
5. Signature - Addressee X	
6. Signature - Agent X	
7. Date of Delivery	
8. Addressee's Address (<i>ONLY if requested and fee paid</i>) State "B" #2 & State 197 #3 SWD	

PS Form 3811, July 1983

DOMESTIC RETURN RECEIPT

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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 <u>or</u> agent and <u>DATE DELIVERED.</u>	
5. Signature - Addressee X	
6. Signature - Agent X	
7. Date of Delivery	
8. Addressee's Address (<i>ONLY if requested and fee paid</i>) State "B" #2 & State 197 #3 SWD	

SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> 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 <u>or</u> agent and <u>DATE DELIVERED.</u>	
5. Signature - Addressee X	
6. Signature - Agent X	
7. Date of Delivery	
8. Addressee's Address (<i>ONLY if requested and fee paid</i>) 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:	Article Number
☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail	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:	Article Number
☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail	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:	Article Number
☒ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail	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

[illegible]

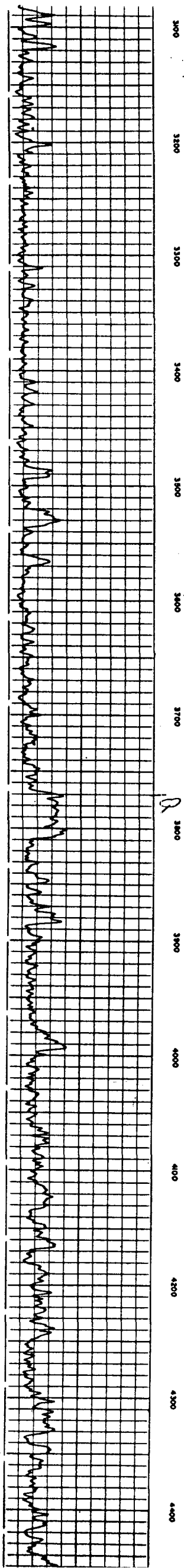
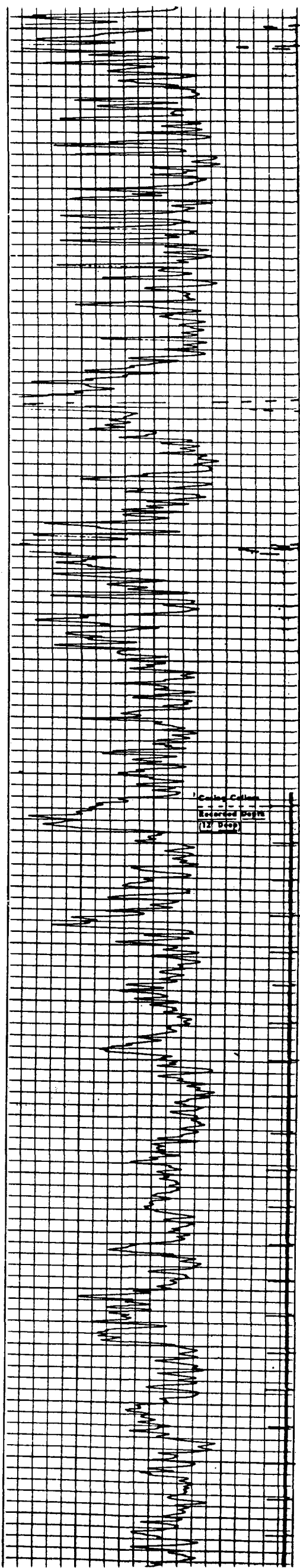
Reproduced By
Electrical Log Services
Midland, Texas 79701

20 COMPLETION RECORD



SPUD DATE	
COMP DATE	
DST RECORD	
API NO.	30-025-24491
CASING RECORD	
PERFORATING RECORD	
ACID. FRAC SHOT	
IP	
608	69

1 1 1 1 1



LEA COUNTY	NEW MEXICO	KEMNITZ WOLFC FLD
Well: TENNESSEE GAS TRANS. CO. #1	State Phillips	Result: OIL
Loc'n: 25-165-33E; 660' FSL 1980' FSL of Sec. (Corrected from 21-4).	Unit I	
Spuds: 6-18-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; PB: 10,834'		
Casing: 13 3/8" 364', 8 3/8" 4536', 5 1/2" 10,980'		
Prod Zone: (Welfo) T/Pay 10,772'; Prod thru perfs 150/10,772-229'		
IPP: 312 BOPD, 14/64" ch, Grav 42		
Comp Info: Part 10,912-921', rec 9' blk ch & sh, 1' 11" ss; Part 10,838-895'; A/3000 gals; DST 10,714-927', ss 5 hrs, used 3000' WB, rev out 5 BOPD, rec 20' oil below sub, PP 2370-3520#, SIP 5112#/45 min; Part 84/10,838-895' & 150/10,836-896'; sand; Part 150/10,772-804' & 90/10,811-829'; A/3000 gals.		
Tops: Not available		
Date: 4-19-58 Card No: 25 NM 68		

LEA COUNTY	NEW MEXICO	KEMNITZ WOLFC FLD
Well: TENNESSEE GAS TRANS. CO. #1	State Phillips	Result: OIL
Loc'n: 25-165-33E; 1980' FSL 660' FSL Sec	Unit I	
Spuds: 6-18-57; Comp: 9-13-57; Elev: 4161' DF; TD: 11,640'; PB: 10,834'		
Casing: 13 3/8" 364'/400 sz, 8 3/8" 4536'/1300 sz, 5 1/2" 10,980'/270 sz		
Prod Zone: T/Pay 10,772'; Prod thru perfs 10,772-10,896'		
IPP: 312 BOPD thru 14/64" ch, Grav 42		
Comp Info: Part 160/10,772-804', 90/10,811-829', 84/10,838-895', 150/10,866-896'; A/3000 gals; DST 10,714-927', ss 5 hrs, used 3000' WB, rev out 5 BOPD, rec below sub 20' oil & 30' oil, PP 2370-3520#, SIP 5112#/45 min		
Tops: Not available		
Date: 10-2-57 Card No: 29 NM 68		

LEA COUNTY	NEW MEXICO	KEMNITZ-WOLFC FLD
Well: PHILLIPS PET. CO. #3 New Mexico "A"		Result: OIL
Loc'n: Sec 25-165-33E, 1983' FSEELs Sec	Unit J	
Spuds: 12-4-60; Comp: 1-26-61; Elev: 4162' DF; TD: 10,970'		
Casing: 13 3/8" 374'/350 sz, 8 5/8" 4530'/375 sz, 5 1/2" 10,869/300 sz		
Prod Zone: T/Pay 10,757, Prod thru perfs 10,757-795'		
IPP: 400 BOPD thru 24/64" ch, grav 40, GOR not reported		
Comp Info: A/1,000 gals		
Tops (21) Yates 2748', Queen 3675', San And 4480', Gior 5932', Tubb 7188', Abo 7945', Welfo 9604'		
Date: 2-22-61 Card No: 14 NM 1jb		

LEA COUNTY NEW MEXICO KENNETH WOLF C FLD
Well: PHILLIPS PETR. CO. #1-A New Mexico Result: OIL
Loc'n: 25-16S-33E; 1983' FSL 2313' FML of Sec.
Unit K
Spud: 3-24-58; Comp: 6-20-58; Elev: 4158' DF; TD: 11,537';
Casing: 13 3/8" 3747' 400 sx, 9 5/8" 4547' 1167 sx, 5 1/2"
11,579' 1061 sx
Prod Zone: T/Pay 10,720'; Prod thru perms 10,720-10,808'
IPP: 482 BOPD thru 3/8" ch, Grav 38, GOR 1392-1, CP pkr,
TP 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'
HOGGM, FP 2240-2500', SIP 3165-2515'/15 min; DST 11,400-
543', op 90 min, rev 915' WB & 342' HOGGM, FP 1140-1450',
SIP 4740-4265'/30 min; Perf 40/10,822-834'; swbd 44 HLO &
52 BSW/10 hrs; sqzd w/75 sx; C/Company Tools;
Tops: Abby 1490', Yates 2740', San Andres 4472', Abo 7930',
Delcampa 9600'.

LEA COUNTY NEW MEXICO KENNETH WOLF C FLD
Well: PHILLIPS PETROLEUM CO. 2 New Mexico "A" CWDD 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'
Miss PB: 12,675'
Casing: 13-3/8" 395'/500sx; 8-5/8" 4552'/1110sx; 5-1/2" 13,484'/
1750sx; 2-7/8" 10,923'
Prod. Zone: (Wolfc) T/Pay, Prod thru Perfs 10,839-11,556'
IPP: 16 BOPD + 29 BW; GOR 1683; Grav 38.9
Comp Info: ran GRL, CNL, DLL, CALP, FRXL, FDC, CCL logs, No Cores
or DST's, ran 5 1/2" Csg; Perf (Morrow) 13,282-13,290'. S/dry, CIBP
@ 13,167', Perf (Atoka) 12,835-12,842', A/1000 gals, S/10 BW/10
hrs, A/3000 gals, S/105 BW/14 hrs, Ret @ 12,675', Sqzd 75 sx;
Perf (L/Wolfc) 10,839-11,556' w/163 shots, A/27,200 gals, C/
Kenai #23
Tops EL: Strawn 12,252', Atoka 12,419', Atoka Clastics 12,654',
Morrow 12,928', Miss 13,416'
API No: 30-025-01269 Replaces card #35 dated 4-27-83
to show as Suspended Completion
P1 Petroleum Information Corporation Date 5-16-84 Card No 4P 1P
A Subsidiary of A.C. Nielsen Company

LEA COUNTY NEW MEXICO KENNETH WOLF C FLD
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'/1150 sx
Prod Zone: None
IPP: None
Comp Info: DST 10641-835', op 30 min, rev 2252' WB, 3 gals oil
& 4120' SG&GM, FP 1070-804', SIP 1715'/15 min; DST 11,525-
550', op 3 hrs, rev 3134' WB, 722' GCSW, & 30' GCM, FP 1440-
1500', SIP 5350-4045'/15 min; DST 10,870-11,005', op 90 min,
rev 2558' WB, 5526' SG&GM & 644' GCSW, FP 1225-1582', SIP
2975'/15 min; C/Company Tools
Tops: (EL) Abby 1502', Yate 2756', Queen 3997', San And 4503',
Glor 5950', Tubb 7206', Abo 7966', Wolfc 9644', K Pay 10,813',
Seaman 11,536'.

LEA COUNTY NEW MEXICO KENNETH WOLF C FLD
Date: 9-17-58 Card No: 16 NM ab

12

LEA COUNTY NEW MEXICO TITUS
Well: SHELL OIL CO, #1-HT State Unit P Result: NEW CL DSC.
Loc'n: 14 mi E/Tatum; NW/part County; Sec 25-16S-33E, 660' FSSGLs Sec; 1-1/2 mi E-SZ/
Hightower Fld, separated by 9620' failure; 1 mi SW/depleted Penn producer.

Sounds 5-1-65; Comp 8-13-65; Elev 4234' DF; TD 12,856'; TTD 10,109'
Casing: 13-3/8" 337'/300 sx; 9-5/8" 4142'/400 sx; 5-1/2" 10,333'/1100 sx
Prod 29 mcs (Penn), T/Pay 9848', Prod thru Perfs 9348-9363'
PP: 15 DOPD, + 2 bbls SW, 14/64" ch, Grv 44.9, GCR 1036-1, TP 11509'
Comp Infor: Crd 9855-9905', rec 50' being 15.5 li w/fluor & odor, trace oil; OSG, 1.5
li, NS, 5' sh, 28' dense li; DST 9853-9905', op 2 hrs & 6 mins, GTS 3 mins, OTS 34
mins, F/to pits 36 mins, F/53 BO/1 hr & 30 mins, 1/2" ch, Grv 41, TP 11501, GCR
1140-1, rev out 13.75 BO, FP 985-20044, LSIP 36339/1 hr & 30 mins, LSIP 36079/2
hrs; DST 10,185-264' (SZ), op 27 mins, pkr leaked, rec 2160' HGCMA, FP 539-4989, LSIP
38044/1-1/2 hrs, FST failed; DST 10,183-241', op 2 hrs & 5 mins, rec 19' DMIS
254S city suit wrt, FP 579-11207, LSIP 30129/1-1/2 hrs, FSTP 46454/1-1/2 hrs; Perf
9848-9863', A/300 qals; F/ 253 BO & 2 DSW/19 hrs & 15 mins 14/64" ch, C/Mobile
Ddr Co.
Tons 11: Yates 2747', Queen 3434', San And 4073', Abo 7640', Wolfe 9114', Wolfe E
marker 9174', Bough "A" 9300', Miss II II, 950', Wldd 12, 601', Silurian 12, 645'

Oil Reports

Date: 9-23-65

Card No.: 19 201 ch

LEA COUNTY

NEW MEXICO

Section 35

ELK OIL CO. 1 Pennaol State

Sheet 33A

U

3 mi NE/Maljanar; 2130' FNL, 1980' FEL of Sec 35-16S-33E
Unit G

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

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

Comp Info: ran DI, CNL, NACL logs, No Cores or DST's, C/Mando

Logs: Mustang 1510', Yates 2815', Queen 3705', San And 4485',

Glorieta 5930', Abo 7980', Wolfe 11,110', Cisco 11,553

API No: 55-025-26630

Petroleum Information*

INCORPORATED
A Subsidiary of A.C. Nielsen Company

Date: 5-16-84

Card No 15 1p

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

ACID OR SHOT	CASING RECORD	TOPS
Natural	13 - 331-400	Glor. 5955
Perf. 10710-822	8 - 4550-1850	C.P. 6573
	5 - 10891-268	Abd 7964
		W.C. 9645
		L. W.C. 10281
		Queen +444 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 BOR 902 TP 500 CP pkr.		
REMARKS		
1/68 LL		
11/5-		
-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. wtr.; FP 1135-2625; SIP 3320/30".

FB 10848

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

Perf. 28/10710-716

Perf. 120/10726-56

Perf. 24/10770-76

Perf. 40/10786-96

Co. LEA POOL KENNITZ- STATE N.M. KROENLEIN 200-59	
WOLFCAMP	
COMPANY Tennessee Gas Trans. Co. - #6 - State Elev. 4139	
LOC. 1980' FSL & 660' FEL Unit I A.A. Kennitz "A"	
Sec. 30, T.16-S, R.34-E	
10,900'	
ACID OR SHOT	CASING RECORD
Perf. 56/10288-302	13 3/8- 358- 400
	8 5/8- 4548-2100
	5 1/2-10536-470
SPD 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.	
Yates	TOPS 2296
Queen	3688
Penrose	3997
S.A.	4516
Glor.	5990
C.F.	6596
Tubb	7209
Abo	7974
W.C.	9723
Woodf.	10324
TP	10,288
TD	10,970
PO	10,473

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&SOCH; 5060' SMCoil, 1890' XW; FP 880-2615; SIP 3135/86 mins.

LEA COUNTY **NEW MEXICO** **S. KENNITZ FIELDS**

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

Locn: **10mi NE/Maljamar, Sec30-16S-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

A Subsidiary of A.C. Nixon Company

Date: 12-9-81

Card No.: 28 mja

WOLF CAMP
 COMPANY Tennessee Gas Transmission Co. - #5 - State AA Kemnitz "A"
 Loc. 1980 PSL & FWL Unit K
 Sec. 30, T.16-S, R. 34-E
 10.850'

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

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.
 PSD 10,903

CONT'D. PAGE 2.

LEA, T.M. 30-16-34
 Tennessee Gas Transmission Co. - #5 - State AA Kemnitz A
 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: 30-165-34E Elev: 4152 I
 1980 f S+W/L 4141 c

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

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

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



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

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36

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

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(Cont'd from Card 36)

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



Petroleum Information®

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36-A

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

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(Cont'd from Card 36-A)

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



Petroleum Information®

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 8-7-85

Card No.: 36-B

LEA COUNTY NEW MEXICO KEMNITZ S FIELD

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

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

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

Comp Info: rig rel 6-28-83; ran CNL, LDT, DILL, MSFL, NGT logs;
 Perf (Atoka) 12,649-12,670 w/4 SPF, A/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 20.1 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

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

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LEA COUNTY NEW MEXICO VACUUM, N. FIELD

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

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

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

API No: 30-025-25867

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

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

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LEA, N.M.		Pool: WILDCAT STATE N.M. KROENLEIN	
COMPANY: Pennzoil Company - #1 - Gulf-State			
Loc. 660' FSL & FEL Unit P		Elev 4125 KB	
Sec. 32; T.16-S; R.34-E		4109 GR	
14,500' RT-Dev.			
PAY STIMULATION	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.	
SPD. 7-2-65	COMP. 12-30-65		
I.P. P. 216 BOPD			
GR 40. GOR 811	IP CP		
TOPS CONT'D.: Bend 12500; Miss.		IP 10,189(Penn)	
13762; Woodr 14450; Dev. 14553.		TD 14,585	
CONT'D. PAGE 2.		PBD 10,800	

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

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

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

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

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 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 on spl 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; P. 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.P. 6643
		Tubb 7293
		Abo 8054
		Kosmita 10876
		Seaman 11620
		TP 11,733 L., sh.
		5288

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

I. P. F & A

GR GOR TP CP

REMARKS

CONT'D. PAGE 2.

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

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

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

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

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

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

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

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

DST 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.

K-614-58

PAGE 3.

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

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

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

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

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

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

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

Section
 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.
 dist. 30' dist. below sub; PP 643-855; SIP
 3738/30". (only 8' pore.)

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

Perf. 15/5186-90

Perf. 60/5196-5216

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

Co. LEA		POOL WILDCAT		STATE H.M. KROENLEIN 614-58	
COMPANY Texas Gulf Prod. Co. - #1 - State L				Elev 4163 DF	
Loc 660' P3L & FEL Unit P					
Sec. 2, T.17-S, R. 33-E					
4800'					
ACIO OR SHUT		CASINO RECORD		Tops	
		13 - 388-450		Yates 2800	
				Queen 3730	
				S.A. 4534	
SPD 1-10-58		COW 3-24-58			
I. P. P & A					
GR. GOR		TP		CP	
REMARKS				5270 L.	
CONT'D. PAGE 2.					

LEA, H.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' xlyn.
 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/330; in lower 13' - water.
 Core 5175-5250 rec. 75' dolo. w/XM.

Sec. 11-T17S-R33E

LEA COUNTY NEW MEXICO MALJAMAR FIELD

Well: PHILLIPS PETROLEUM CO., 23 Phillips "E" State Result: OIL DO
 Loc'n: 7 mi E/Maljamar; Sec 11-T17S-R33E; 990' FSL, 2310' FWL of Sec
 (Orig Cmp 3-8-76 (Grayb) Perfs 4449-4551, OTD 4618', OBP 4574')
 Spud: 5-13-83; Comp: 5-23-83; Elev: 4158 GL; 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

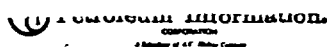
Well: PHILLIPS PETROLEUM CO., 23 Phillips "E" State Result: OIL DO
 Loc'n: 7 mi E/Maljamar; 990' FSL, 2310' FWL Sec 11-17S-33E; (Orig
 cmp 3-8-76 thru Grayb perfs 4449-4551', OTD 4618', PB 4574')
 OWWO
 Spud: 6-17-83; Comp: 6-23-83; Elev: 4158' Grd; TD: 4618' San And
 Casing: 8-5/8" 388'/400 sx; 4" 4618'/300 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



COUNTY		FIELD		STATE	
LEA		Maljamar		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	
SPD 2-11-76	CMP 3-8-76	WELL CLASS: INT. D		FIN DO	
CSG		FORMATION	DATUM	FORMATION	DATUM
8 5/8" at 388' w/400 sx					
4 1/2" at 4618' w/300 sx					
		TD 4618' (SADR)		OBP 4574'	
IP (Grayburg) Perfs 4449-4551' P 100 BOPD. Pot based on 24 hr test. GOR 1176; gty 35.4					

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

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

LEA COUNTY NEW MEXICO MALJAMAR FIELD
Well: SHELL OIL CO, 1 State "D-11" Result: OIL DO
Loc'n: 8 mi NW/Buckeye; Sec 11-17S-33E; 660' FSL, 1980' FEL Sec
Unit O

Spud: 2-25-78; Comp: 4-14-78; Elev: 4155' Grd; TD: 4715' San And; PB: 4700'
Casing: 8-5/8" 415' / 375 sx; 5-1/2" 4709' / 1350 sx
Prod Zone: (Grayb San And), T/Pay 4446', Prod thru Perfs 4446-4658'
IPP: 26 BOPD + 27 BW, Grav 36.4, GOR 769-1
Comp Info: Perf (Gray-San And) 4446-4586', 4630-58, A/5800 gals, (15%); frac w/
21,500 gals & sd; ppd 57 BO & 19 BW/24 hrs; C/Cactus
Tops EL: Rustler Anhy 1522', Yates 2834', Seven Rivets 3128', Queen 3804', Grayb
4313', San And 4593'
API No: 30-025-25787

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Date: 6-7-78

Card No.: 5 dh

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

ACID OR SHOT	CASING RECORD 8 5/8- 300- 250	B. Salt	TOPS 2640
		Cusen	3790
SPO. 12-4-59 COMP 12-30-59	I. P. P & A	Penrose	4000
		Premier	4565
		S. And.	4598
GR. GOR TP CP		TP	
REMARKS		TD 4830 dolo.	
		PEO	

CONT'D. PAGE 2.

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

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

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



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

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

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

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



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

LEA COUNTY NEW MEXICO MALJAMAR FIELD

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

Spud: 10-10-76; Comp: 11-1-76; Elev: 4142' Grd, 4152' KB; TD: 4690' San And; PB: 4670'
Casing: 8-5/8" 422'/400 sx; 4-1/2" 4690'/1050 sx;
Prod. Zone: (San 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
Loc'n: 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'
IPP: 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 & GRL logs; BHT 102 deg; C/Paul's.
Tops: (EL) Rustler 1512', Salado 1700', Yates 2798', Seven Rivers 3148', Queen 3801', Grayb 4312', San And 4594'.
API No.: 30-025-25332

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

LEA COUNTY NEW MEXICO MALJAMAR FIELD

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

Spud: 10-23-76; Comp: 11-10-76; Elev: 4138' Grd, 4148' KB; TD: 4682' 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

GRAYBURG-SAN ANDRES

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

Elev. 4106 KB

LOC. 2086' FSL & 766' FWL Unit L

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

11,000' RT-Wolfe

PAY STIMULATION

PERF: 4701-
4707

CASING

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

TOPS

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

SPD. 10-3-71

COMP. 11-27-71

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

GR. 35. GOR nil TP CP

CONT'D. PAGE 2.

TP 4701
TD 11,406
PBD 4900

LEA, N.M.

Koch Exploration Co. - #1 - Vacuum-State

K-4-17-34

PAGE 2.

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

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

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

LEA, M.M. 4-17-34
 Henville G. Penrose, Inc. - #4 - Phillips-Loa.
 K-751-61
 PAGE 2.

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

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

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

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

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

LEA, N.M.

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

B-5-17-34
PAGE 2.

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

30-025-23768

Co. LEA

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

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

ELEV. 4098 GR

LOC. 1980' FSL & 2130' FEL Unit J cum. 1984
Sec. 5, T.17-S, R.34-E 108,789
12,000' RT-Wolfcamp

PAY STIMULATION

PERF: 10757-
10892

CASING

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

TOPS

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

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

TP 10,757

TD 11,050

PBD 11,020

LEA, N.M.

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

B-5-17-34

PAGE 2.

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

LEA POOL NW VACUUM STATE N.M. K-5-17-34
 -WOLFCAMP (WILDCAT) KROENLEIN
 COMPANY King Resources Co. - #1 - Lea-Mex-State
 LOC. 1980' FSL & 660' FWL Unit 1 1984 ELEV 1124 GR
 Sec. 5, T.17-S, R.34-E 168,83 4129 DF
 11,900' RT-Cisco

PAY STIMULATION	CASING	TOPS
PERF: 10867-878,	13 3/8- 374- 375	Anhy 1553
10943-950	8 5/8-4294- 500	Yates 2810
	5 1/2-11060-300	Queen 3785
	2 3/8-10943	S.And 4636
		Glor 6023
		Tubb 7350
SPD. 3-26-70	COMP. 6-1-70	Abo 8051
		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.,		TO 11,766
rec. 450' gas in DP; CONT'D. PAGE		PFD 11,150

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

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

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

90' mud; FP 1398-1472; ISIP 8053/1 hr.;
 FSIP 7924/6 hrs. (rec. 5.3 CFG; 800 cc's
 mud, 1000 cc's oil, Gr. 41.8; GOR 850/1
 in 30).
 Perf: 10867-878, 10943-950; swb. 37 BLW/3 hrs.,
 500 gal. acid; swb. 50 BLW/3 hrs.; kick
 off & flow all load; F. 127 BO (Gr. 38.)
 + 8 bbls. wtr/12 hrs., gas at 300,000
 CFGPD, TP 50#; F. 128 bbls. fluid (3% wtr./
 4 hrs., 32/64" ch., TP 50#; 3000 gal. acid,
 flush w/5000 gal. & swb. 91 bbls. LW w/show
 of oil/6 hrs. (good show of gas); swb. &
 F. 75 BLW + 72 BNO/13 hrs.; F. 33 BNO + 16
 BLW, gas at 100,000 CFGPD/11 hrs., FTP 50#,
 20/64" ch.; F. 93 BO/24 hrs., gas at 150,000
 CONT'D. PAGE 4.

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

Co. LEA		POOL VACUUM	STATE N.MEX.	KROENLEIN	766
COMPANY Repollo - #1-200 - State			ELEV. 4112		
Loc. 660' FSL & 1900' ILL Unit O					
Sec. 5, Twp. 17, R. 34					
ACID OR SHOT	CASING RECORD		TCEB		
Shot 140 qts. fr. 4695-4721	10 3/4 - 258 - 125		TA	1500	
			TL	3900	
BPD. 7-15-44 COMP. 12-31-44					
I. P. Temp. Abd.					
GR.	GOR	TP	CP		
REMARKS	SO 4695-4702		TP	4741 L	
			TO		
			PBO		

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 +379 3751 SA -430 4560
SPD. 3-19-57 COMP. 4-21-57		
I. P. P&A		
GR. GOR TP CP		TP TO 5050 Dol. P&O GR. N
REMARKS DST 4851-4921, op 1 hr. 15 min. rec 5' mud w/SSO FP 0 SIP 125/30 min.		

Co. LEA POOL WILDCAT STATE N.MEX KROENLEIN 765
 COMPANY Repollo Oil Co. - #2 - State "197" ELEV. 4110
 (fully. 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. GOR TP CP		TP TO 3020 P&O
REMARKS BG 4818, SO 4037-40, 4897, SW 5012-20 alt wtr.		

COUNTY		FIELD Vacuum		© Copyrighted Reproduction Prohibited	
LEA				STATE NM	
OPR BROWN, H. L., JR.				API 30-025-23946	
NO 1 LEASE State "B"				SERIAL OWWO	
Sec 6, T-17-S, R-34-E				MAP	
2310' FSL, 860' FEL of Sec				CO-ORD	
Unit I					
REG SPD CSG	MP	CLASS	ELEV	L & S	
11-15-73	12-6-73	FORMATION	DATUM	FORMATION	DATUM
		TD 11,065'		PBD 4657'	
1P (Grayburg-San Andres) Perfs 4643-4651' P 5 1/2 BOPD. Pot based on 24 hr test. GOR TSTM; Grav 34					
CONTR		OPRS ELEV		PD	TYPE WO
		4139' KB		4657'	

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.

-WOLFCAMP

B-6-17-34

KROENLEIN

COMPANY

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

LOC.

2310' FSL & 660' FEL

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

11,200' RT-Wolfc.

ELEV

4154 KB

4122 GR

PAY STIMULATION	CASING	TOPS
PERF: 10754-	11 3/4- 345- 400	Anhy 1537
10762	8 5/8-4665- 250	Yates 2800
	4 1/2-11065-300	Queen 3775
		S.And 4612
		Glor 6020
		Tubb 7346
		Abo 8005
		Wolfc 9786
		Kemnitz 10803

SPD.

11-22-72

COMP.

2-23-72

I. P.

P. 100 BO + 44 BLW/24 hrs.

GR.

41.

GDR

2040

TP

CP

DST

10890-990

1000' WB, op. 4 hrs.

CONT'D. PAGE 2.

TP

10,754

TD

11,065

PBD

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

LEA
BROWN, H. L., JR.

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

NM
Page #2

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

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

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

Petroleum Information Corporation
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Date: 10-3-84

Card No.: 17 dh

CO. LEA POOL WILDCAT STATE: LEA KRDNLEIN 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	CASINO RECORD	Tops
ACID: 8000 gals.	13 - 2A1 - 800	T.A. 1540
	9 5/8 - 2742 - 250	T.G. 1651
	7 - 4359 - 100	B.S. 2640
	2" tbg. 4684	T.Yates 2830
	pk. 4284	T.Br.L 2982
		T.Gr.L 4350
		BSAD 4500 4618

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

SA - 301 by Symphon
TP 4644
TD 5016
PBD 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 cag.
BO 3810-16 odor, 3860-65, 80 4656-60 BO&O 4644-53
INCO&O 4677-80, SW 8850-40, 400' alt. W 3 hrs,
5006-16 Sltly Sul W 1 BMPH

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

Unit P

Spud: 5-29-81, Comp: 6-4-81, Elev: 4132' GL, TD: 11,819 (PSLV)
Comp Info: (Orig. Pennzoil United, Inc., Comp 4-28-69, (WFMP) Perfs
10,938-991, OTD 11,819; OPB 11,784) Sqz/400sx, DOC to 11,784, Perf
(PSLV) @ 11,702-11,763 w/1 SPI (OA) Att. A/2000 gals, Perf (PSLV) 11,702
11,763 (OA) Att. A/2000 gals, would not break
Tops: (EL) NR
API No: 30-025-23011

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



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Date: 11-11-81

Card No: 46 mja

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

Spud: 5-29-81, Comp: 6-4-81, Elev: 4132' GL, TD: 11,819 (PSLV)
Casing: 13 3/8" 340' / 360sx, 8 5/8" 4293' / 482sx, 4 1/2" 11,819' / 725
Comp Info: (Orig. Pennzoil United, Inc. comp. 4-28-69 (WFMP) Perfs
10,938-991, OTD 11,819, OPB 11,784) Sqz/400 sx, DOC to 11,784, Perf
(PSLV) @ 11,702-11,763 w/1 SPI (OA) Att. A/2000 gals, Perf (PSLV) 11,702
11,763 (OA) Att. A/2000 gals; 2hr FSIP 1141, HP 6194-6194, DST-SP
(BSPG) 7200-64, op 2hr 5mins, rec 2000' DRLG FLUD, 1 hr ISIP 3615,
FP 129-715, 2hr FSIP 3615, HP 3615-3615', DST-SP (BSPG) 7190-7275
op 1hr 5mins, rec 280' DRLG FLUD, 1hr ISIP 2715, FP 22-146, FSIP
2447, HP 3516-3516, BHT 155 deg @ 7195, DST (BSPG) 8740-8840, op 1hr
5min, GTS 52mins / FSIP, rec 4BBL GO+WCD+4 BBL, FWTR+4 1/2 BBL Oil
1 hr ISIP 3496, FP 42-313, 4hr FSIP 3516, HP 4272-4272, BHT 170 deg,
@ 8745, PB 8965, Perf (BPSB) 8790-8800w/2 SPF, A/250gals, F/45BO+8BW+
60MCFGPD/24hrs 22/64ch, TP10, Ran GRL, CCL LOGS,
Tops: (EL) DLWR 5203', BSPG 7005', WFMP 10,288', STRN 11,536', ATOK 11,942



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Date: 10-28-81

Card No: mja

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

PAY STIMULATION	CASING	TOPS
PERF: 10938-10991	13 3/8- 340- 370 8 5/8- 4293- 482 4 1/2- 11819- 725	Anhy 1548 Salt 1661 Yates 2812 7 Rivs 3138 Queen 3797 S. And 4622 Glor 6020 Padd 6106 Tubb 7358 Abo 8069
SPD. 2-19-69	COMP. 4-24-69	
I. P. F. 265 BO + 10 BLW/24 hrs., 24/64" ch.		
GR. 42. GOR 1615 TP 250 CP pkr		
TOPS CONT'D.: Wolfe 9885; Penn 11345.		
CONT'D. PAGE 2.		
		cont'd. TP 10,938 TD 11,819 PBD 11,784

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

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

K-6-17-34
LEA, N.M. 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 & 530' FHL 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. 2040 T.Y. 2830 Br.L. 3030 T.S.A. 4345
SPD. 3-11-48 COMP. 5-10-48		
I. P. F. 111 BOPD thru 24/64" TC on 2" G 4670		TP 4660 TD 6479 wh sd. PSD 4674
GR. 36.8 GOR 1164 IP 125 CP REMARKS CONT'D PAGE #2		

K-668

PAGE #2

CO. LEA, NEW MEXICO 7-17-34

COMPANY 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. F. 150 BOPD thru 1/2" chk.
A-3000 gals. 4636-74. Swb. 1 BOPD then swb & F.
115 BOPD thru 20/64" chk. TP 110 Qty. 35.8

CO. LEA POOL VACUUM STATE N. MEX. KROENLEIN 631

COMPANY Continental Oil Co. - #1-7-1 - State ELEV. 4130

LOC. 330' FHL & 1650' FHL Unit B
Sec. 7, Twp. 17S, R. 34 S.

ACID OR SHOT	CASING RECORD	TOPS
Total Acid: 4000 gals.	13 - 305 - 300 9 5/8 -1639 -425 7 - 4395- 425 2" tbg. 4767	T.A. 1550 B.S. 2720 T.Y. 2840 T.1st L 3000 T.L.Gr. 4340
SPD. 7-12-38 COMP. 1-10-38		
I. P. L&A		
GR. 30R TP CP		TP 4895 TD PSD
REMARKS SG 3830-60; SO 4649-51 odor, SLK 4870-60		

Sec. 7-T175-R34E

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

LEA POOL W. VACUUM STATE H.M. KROENLEIN 669-57	
COMPANY Magnolia Pet. Co. - #4 - State "X" Elev. 4132 DF LOC. 660' FNL & 1980' FNL Sec. 7, T. 17-S, R. 34-E 4750'	
ACID OR SHOT	CASING RECORD 8 - 1570 200 5 - 4638-1300
SPD. 6-15-57 COMP. 7-17-57 I. P. Temp. Aband.	TOPS Anhy. 1545 Salt 1660 B. salt 2738 Yates 2846 Queen +327 3792 3704 S.A. -450 4612
GR GOR TP CP REMARKS	TP TO 4703 dolo. PSD CR-V

CONT'D. PAGE 2.

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

Core 4639-78 rec. 39': 11' dolo., 3' dolo. w/poro.,
 6" dolo.; 5 1/2' dolo. w/poro., bldg. oil; 4'
 dolo.; 1' dolo. w.por. bldg. oil; 14' dolo.
Core 4678-4703 rec. 22' dolo.

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

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

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

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

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

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

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. KROENLEIN 1143-57
 MAY 17 1957
 COMPANY Magnolia Petr. Co. - #3 - State "X" ELEV. 4132 ft
 LOC. 1980' FNL & FWL Unit G
 Sec. 7, T. 22S, R. 34E
 4750' 17S

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
BOP. 4-6-57 COMP. 5-1-57		
I. P. P. 17 BOPD		
GR. 34.9 BOR 1175 TP REMARKS Core: 3800-15, rec. 1' sd, vy fine grn. sh. gr, shly. w/tr. red sh. Core: 4641-51, rec 9' dolo. w/some anhy.	CP CON'T. PAGE 2	TP 4640 TD 4730 Sh., Dol.

17S K-1143-57
 LEA, N.M. 7, 22-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. LRA POOL VACUUM STATE N. MEX KRÖENLEIN 669
 COMPANY Magnolia - #2-X - State ELEV. 4103
 LOG 1650 FNL & 330 FEL Unit H
 Sec. 7, wp. 173, R. 34-E

ACID OR BLOT	CASING RECORD	TOPS
9000 gals. Acid	9 5/8 - 1805 -500 7 - 4640 -600	T.A. 1530 B.S. 2880 T.Y. 2810 T.Br.L. 3030 T.Gr.Brg. 4320 T.S.A.-497 4800
BPD. 12-15-48	COMP. 3-1-49	-477 Symp
I. P. P. 50 BO/24 thru 2" @ 4658		TP 4641 TD 4658L PED
GR. 30.9 GOR 491 TP	CP	
REMARKS AA sub. 18 BO & 16 BAW/24 hrs.		

LEA COUNTY NEW MEXICO VACUUM, N. FIELD
 Well: MOBIL OIL CORP. 1 State XX Com. Result: GAS DG
 Loc'n: 6 mi NW/Buckeye, 1980' FSL 660' FEL Sec 7-17S-34E.
 Unit I
 Spud: 1-7-77; Comp: 4-23-77; Elev: 4105' grd; TD: 13,470' Mor; PB: 13,422'
 Casing: 12 3/4" 350'/500 sx, 8 5/8" 4850'/2400 sx, 5 1/2" lnr 4463-13,467'/1500 sx
 Prod Zone: (Morrow) T/Pay 13,300', prod thru perms 13,300-373'
 IPF: 568,000 CFCGPD & 36 BC, 12/64" ch, GOR NR, Grav (gas) .679, (cond) 50.6, TP 750#
 Comp Info: DST (Mor) 13,134-470', op 2 hrs 30 min, GTS 99 min @ 4500 MFCGPD, 3/4" ch, rec 560' GCM & 310' MCD, 1 hr ISIP 6950#, FP 2668-3174#, 5 hr FSIP 6702#, HP 7400-7400#, BHT 165 deg; Perf (Mor) 13,300-307', 13,354-361', 13,365-373' w/2 SPF; A/1000 gals; F/@ 500 MFCGPD, 1" ch, frac w/16,000 gals & 45,000# sd; F/635 MCF-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 MFCGPD; Ran CNL, FDC BHC & DILL logs; BHT 166 deg; C/Marcum.
 Tops: (EL) Rustler 1561', Yates 2832', Queen 3828', San And 4612', Glor 6039', Tubb 7392', Abo 8780', Wolfc 9823', Penn 10,672', Strawn 12,208', Atoka 12,708', Morrow 12,950'
 API No.: 30-025-25409

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Date: 6-29-77

Card No.: 20 rm

SV-025-24131
Co. LEA

POOL VACUUM

STATE N.M. KROENLEIN 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

COMP. 8-11-72

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

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

CONT'D. PAGE 2.

TP 4644
TD 4703
RBD 4690

LEA, N.M.

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

W-7-17-34
PAGE 2.

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

LEA COUNTY NEW MEXICO Unit D VACUUM N FIELD

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

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

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

Date: 8-24-83 Card No.: 15 dm

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

PAY STIMULATION	CASING	TOPS
PERF: 10929- old 13 3/8- 379- 345	Wolfc	9870
10939 " 8 5/8- 4312- 490		
" 4 1/2- 11825- 940		
SPD. Re- COMP. 8-9-70		
I. P. P. 8.28 BO + 25 BW/24 hrs.		
GR. - GOR 6080 TP CP	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. 106 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
		Wolfc 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. TP 11,712 (Cisco)
rec. 152' drlg. fluid, 2000' salt TO 11,825
sul. wtr., CONT'D. PAGE 2. PBD 11,770

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

LEA, N.M. P-8-17-34
PAGE 3.
Pennzoil United, Inc. - #1 - Gallagher-State "8"
ISIP 131/1 hr.; FSIP 65/1 hr.
DST 6 10842-895 op. 1 hr. 15 mins., very weak
blow 15 mins. & died; rec. 4' mud; FP 23-
28; 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/11593-630 op. 3 hrs., 15 mins.; rec. 385'
 O&GCM; FP 952-952; ISIP 7028/1 hr.; FSIP
 7010/3 hrs. Spot 500 gal. acid.
 Perf 1 SPF/11712, 11713, 11714, 11715, 11716,
 11720, 11721, 11723, 11724, 11725; 500
 gal. acid/11712-725; F. 274 BO/16 hrs.,
 no wtr.; 16/64" ch. (Cisco)

CO. LEA		POOL VACUUM		STATE N.MEX. KROENLEIN 642	
COMPANY Delfern Oil Co. - #3-A - Lea State				ELEV. 4108	
LOC. 660' FNL & FNL Unit D Sec. 8, Twp. 17, R. 34E					
ACID OR SHOT	CASING RECORD		TOPS		
Acid: 1000 gal.	8 5/8 - 305 - 150		T.Rd.Sd. +29) 3815		
	5 1/2 - 4608 -250		T.S.A. -512 4630		
Perf. 2: 1602			T.A. 1540		
			T.S. 1675		
			U.S. 2670		
			T.Y. 2880		
BPD. 6-23-48 COMP. 8-11-48			SA -522 57mp		
I. P. P. 48 BO/24 thru 2" O 4649			TP 4640		
GR. 34	GOR	TP	CP	TD 4649L	
REMARKS				PRD	

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

Co. LEA POOL VACUUM STATE N. MEX. KROENLEIN 640
 COMPANY Delfern Oil Co. - #1-A - Lea-State Elev. 4113
 LOG. 1980' FHL & FHL (C ST. NW) Unit F
 Sec. 8, Twp. 17-S, R. 34E

ACID OR SHOT	CASING RECORD	TOPS
Total Acid: 9000 gals.	8 5/8 - 315 - 150 5 1/2 - 4299 - 750 2 - 4720	T.A. 1550 T.Yates 2880 T.S.A. 4640-4629 Open? 4203 3850
BPD. 10-5-47 COMP. 1-12-48		
I. P. F. 111 30/8 hrs 1" chk, 2" C. 4720		
GR. 37 GOR 1041 TP-0-200 CRK 4660		TP 4673 TD 4723-L
REMARKS CONT'D PAGE #2		PBD 5/1/49

K-640

LEA, NEW MEXICO 8-17-34 PAGE #2
 Delfern Oil Co. - #1-A - Lea-State

LOG 80 4675-76; TD 4723 has 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
 LOG. 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 5 1/2 - 4580 - 900	A. 1550 T.S. 1680 B. S. 2880 T.Y. 2885 T.Red Sd. 3820 3837 T.Wh.L. 4645 4630
BPD. 5-18-48 COMP. 7-11-48		
I. P. P after acid 54 BOPH		
GR. GOR TP CR		TP 4678 TD 4691 L
REMARKS Tr. 9500 gals. 4676-4691 swb. 3 BOPH for 10 hr. thru 2" w/pkr. 4615		PBD CR-N

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BUREAU OF LAND MANAGEMENT
A DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C. 20250

COUNTY **IEA** FIELD **Vacuum, N.** STATE **NM**

OPR **SOUTHERN UNION SUPPLY CO.** API **MN 22198**

NO **2** LEASE **Gallagher "8" State** SERIAL **3-4-19 NM**

Sec 8, T17S, R34E MAP

660' FSL, 660' FWL of Sec Unit M CO-ORD

3 mi N & 5 mi W/Buckeye ELEV **1**

Re- 11-14-75 Re- 2-18-76 SPD CSG	WELL CLASS: HWT DD FIN DC <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">FORMATION</th> <th style="width: 25%;">DATUM</th> <th style="width: 25%;">FORMATION</th> <th style="width: 25%;">DATUM</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	FORMATION	DATUM	FORMATION	DATUM																								
FORMATION	DATUM	FORMATION	DATUM																										

11 3/4" at 350' w/400 sx

8 5/8" at 4145' w/500 sx

5 1/2" at 13,510' w/550 sx

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

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

CONTR **Cactus #22**

OPR'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 Pennzcoil United,
Inc. as #2 Gallagher "8" State, OTD 11,998')
AMEND FIELD NAME: Formerly reported as Undesignated
Drlg 12,625'
Drlg 13,165'
TD 13,510'; Prep Run 5 1/2" csg
Deepened from 11,998' to 13,510'
TD 13,510'; MICU
Ran 5 1/2" csg
TD 13,510'; PBD 13,400'; Tstg
Perf (Morrow) @ 13,181', 13,231', 13,236', 13,238',
13,240', 13,242', 13,309', 13,311', 13,314',
13,316', 13,318', 13,360', 13,362', 13,364' w/1 SPI
3-4-19 NM

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

1-20-76 Continued
Acid (13,181-364') 8000 gals
2-23-76 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

IC 30-025-70095-75

FP 1298-1427; ISIP 1822/2 hrs.; FSIP 1644/
2 hrs.

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

Cas. Log: 8 5/8" 500'/400' sx, 5 1/2" 4800'/1950' sx

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

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

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

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

API No.: 30-025-25477

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Date: 6-22-77

Card No.: 10 mm

LEA COUNTY NEW MEXICO VACUUM N. FIELD

Well: SOUTHERN UNION EXPL 3 Gallagher "8" State "OWWO" Result: OIL DO
 Loc'n: 5 mi NW/Buckeye; Sec 8-17S-34E; 660 FSL 1980 FEL of Sec
 (Orig. Cmp 5-30-77 thru (Morrow) Perfs 13,413-13,460',
 OTD 13,535, OPB 13,478) Unit O

Spud: 5-28-85; Comp: 6-4-85; Elev: 4105' Grd, 4128' KB; TD: 13,535 Mssp;
 PB: 9462'
 Casing: 13-3/8" 362'/400sx; 8-5/8" 4755'/2100sx; 5 1/2" 13,535'/1000sx;
 2-3/8" 9045'
 Prod Zone: (Abo) Prod thru perfs 8846-8984'
 IPP: 38 BOPD + 75 BW, 24 hr test, GOR (NR), gty 34
 Comp Info: Ran CNL, FDC, DLL; PB to 9462'; Perf (Abo) 8846-
 8860', 8874-8894', 8900-8908', 8918-8920', 8936-8944', 8956-
 8960', 8974-8984' w/1 SPF, A/7500 gals (15% HCL), A/7500 gals
 (15% HCL), Frac/58,360 gals + 67,000# sd;
 Tops: (NR)
 API No: 30-025-25326

Oct. 85:
 456 Oil } 29 days
 10 wk. }

6/85 510/460
 7/85 554/367
 8/85 488/160
 9/85 452/150
 10/85 456/10

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

LEA COUNTY NEW MEXICO VACUUM, N. FIELD

Well: SOUTHERN UNION SUPPLY CO. 3 Gallagher "8" State Result: GAS DG
 Loc'n: 5 mi NW/Buckeye, 660' FSL 1980' FEL Sec 8-17S-34E.
 Unit O

Spud: 9-23-76; Comp: 5-30-77; Elev: 4105' grd, 4128' KB; TD: 13,535' Miss; PB: 13,478'
 Casing: 13 3/8" 358'/400 sx, 8 5/8" 4755'/2100 sx, 5 1/2" 13,535'/1000 sx
 Prod Zone: (Morrow) T/Pay 13,413', prod thru perfs 13,413-460'
 IPF: 250,000 CFGPD, & 40 BC, 10/64" ch, GOR NR, Grav (gas) NR, (Cond) 52, SITP 3750#
 Comp Info: Perf (L/Morrow) 13,288-302', 13,310-313', 13,376-383', 13,413-420', 13,450-460'
 sqd perfs 13,288-383'; A/10,000 gals; frac w/40,000 gals & 26,000# sd; ran DILL, CNL
 & FDC logs; C/Cactus; BHT 183 deg.
 Tops: (EL) Rustler Anhy 1597', Salt 1765', Base Salt 2702', Yates 2907', Seven Rivers 3010',
 Queen 3803', Grayb 4375', San And 4667', Glor 6094', Paddock 6180', Blinbry 6832',
 Tubb 7488', Drinkard 7922', Abo 8101', Wolfe Sh 9726', Penn 10,856', Cany 11,940',
 Strawn 12,218', Atoka 12,620', Miss 13,492'
 API No.: 30-025-25326

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Petroleum Information®
 CORPORATION
 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' FNL & 1980' FWL Unit C
Sec. 17, T.17-S, R. 34-E

ACID OR SHOT	CASING RECORD	TOPS
Perf: 20/4667-77 3000 acid	8 5/8- 390- 150 5 1/2-4910- 300	Anhy. 1565 Salt 1576 B.Salt 2680 Queen 3838 S.And 4625
SPD. 10-23-61 COMP. 11-22-61		
I. P. F. 47 BO + 2 BW/24 hrs., 18/64" ch.		
GR. 34.2 GOR - TP 100 CP -		
REMARKS Core 4575-4651 rec. 76' dolo.		
scat. bldg. oil.		

17S-34E; Sec 17, Unit C
660' FN&WLLea County(Vacuum-
San Andres)BTA Oil Producers # 1 UnionOILSpud: 10-22-61; Comp: 11-22-61; Elev: 4093' GR; TD: 4910';
FBTD: 4890'

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

Prod Zone: San Andres perfs 4667-77'

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

Comp Data: A/3000 gals

Tops: anhy 1565', salt 1676', salt base 2680', Queen 3838',
San Andres 4625'. Pay @ 4667'.NEW MEXICO OIL LOG
December 11, 1961

Sec. 18-T17S-R34E

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

LEA COUNTY NEW MEXICO WILDCAT

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

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

Unit H

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

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

Prod Zone: (Penn) T/Pay 11,095', prod thru perms 11,095-163'

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

Comp Info: Perf (Morrow) 13,198-202', 13,246-254', 13,303-305'; A/2000 gals; frac w/ 23,000 gals & 48,000# sd; Non-Commercial; sqzd w/150 sx; Perf (Penn) 11,095-104', 11,111-114', 11,122-125', 11,154-163'; A/4000 gals; F/506 BOPD, 1/4" ch, TP 500#; ran DILL & CNDL logs; C/Marcum Drlg.

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

API No.: 30-025-25256

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Petroleum Information

CORPORATION
A Subsidiary of A.C. Nielsen Company

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

COUNTY LEA		FIELD Wildcat		STATE NM	
OPR SOUTHERN UNION SUPPLY CO.				API 30-025-25256	
NO 1		LEASE Pennzoil State		SERIAL 8-4-14 NM	
		Sec 18, T17S, R34E		MAP	
		1980' FNL, 660' FEL of Sec		CO-ORD	
		5 1/2 mi NW/Buckeye		ELEV 13,545' L&S	
SPD 3-14-76		CMP 8-9-76		FIN WFD	
CSG		WELL CLASS: D		INT	
13 3/8" at 350' w/425 sx		FORMATION		DATUM	
8 5/8" at 4750' w/1400 sx					
5 1/2" at 13,545' w/1450 sx					
		TD 13,545' (MSSP)		PB 13,060'	
IP (Pennsylvanian) Perfs 11,095-163' F 315 BOPD. Pot based on 24 hr test.thru 1/4" chk. GOR 619; gty 41; TP 300#					

CONTIN **Marcum** OPR'S ELEV **4108' GL, 4128' KB** TO **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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 8940
Order No. R-8312

APPLICATION OF YATES PETROLEUM
CORPORATION FOR SALT WATER DISPOSAL,
LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on September 17, 1986, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 22nd day of September, 1986, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

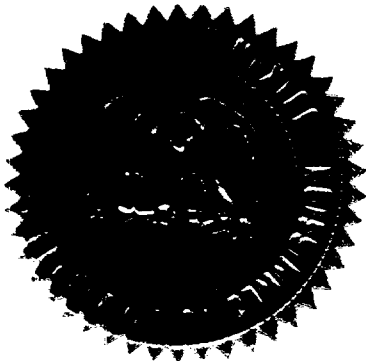
FINDS THAT:

The applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED THAT:

Case No. 8940 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



S E A L

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

R. L. Stamets
R. L. STAMETS,
Director



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

September 23, 1986

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. Chad Dickerson
Dickerson, Fisk & Vandiver
Attorneys at Law
Seventh and Mahone, Suite E
Artesia, New Mexico 88210

Re: CASE NO. 8940
ORDER NO. R-8312

Applicant:

Yates Petroleum Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced
Division order recently entered in the subject case.

Sincerely,

R. L. STAMETS
Director

RLS/fd

Copy of order also sent to:

Hobbs OCD X
Artesia OCD X
Aztec OCD

Other Thomas Kellahin

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

DC 9/17/86
M.S. 9/17/86
WTH 9-18

[Handwritten signature]

CASE NO. 8940

Order No. R- 8312

APPLICATION OF YATES PETROLEUM CORPORATION
FOR SALT WATER DISPOSAL, LEA COUNTY, NEW
MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on September 17, 1986, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this _____ day of September, 1986, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

The applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED THAT:

Case No. 8940 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year
hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

R. L. STAMETS,
Director

S E A L