

BEFORE THE OIL CONSERVATION DIVISION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION :
OF YATES PETROLEUM CORPORATION :
TO INJECT WATER FOR THE PURPOSE :
OF WATER DISPOSAL, LEA COUNTY, :
NEW MEXICO :

CASE NO. 7872

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, pursuant to Rule 701, and in support hereof, respectfully states:

1. Applicant proposes to dispose of water into its Swan "VB" State No. 2 Well, located 1,980 feet from the south line and 1,980 feet from the east line of Section 21, Township 14 South, Range 33 East, N.M.P.M., through perforations from 10,071 to 10,136 in the Lower Cisco (Permo-Upper Penn) formation, and from 10,156 to 10,350 feet in the Canyon (Permo-Upper Penn) formation.

2. There is attached hereto as Exhibit "A" and incorporated by reference, Form C-108 showing the location of the proposed disposal well, and the location of all other wells within a radius of two miles from said proposed disposal well, and the formation from which said wells are producing or have produced, and indicating the lessees within said two mile radius. The log

of the proposed disposal well and a diagrammatic sketch thereof with other pertinent information concerning the proposed project are a part thereof.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

B. That upon hearing, the Division enter its order authorizing applicant to dispose of water into its Swan "VB" State No. 2 Well, located 1,980 feet from the south line and 1,980 feet from the east line of Section 21, Township 14 South, Range 33 East, N.M.P.M., through perforations from 10,071 to 10,136 in the Lower Cisco (Permo-Upper Penn) formation, and from 10,156 to 10,350 feet in the Canyon (Permo-Upper Penn) formation.

C. And for such other and further relief as may be just in the premises.

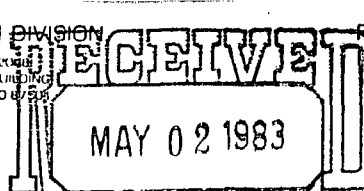
YATES PETROLEUM CORPORATION

By: 
Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A.
P. O. Drawer 239
Artesia, New Mexico 88210

Attorneys for Applicant

APPLICATION FOR AUTHORIZATION TO INJECT



- I. Purpose: ☐ Secondary Recovery ☒ Fresh Water Oil Conservation Division ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Yates Petroleum Corporation
Address: 207 S. 4th Street; Artesia, N.M. 88210
Contact party: Nelson Muncy 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: Nelson Muncy Title: Engineer
Signature: Nelson Muncy Date: 4/29/83
- * 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. Subject well logs, were submitted to NMOC in Hobbs.

FORM C-108 Supplement

Swan "VB" State #2

I. Purpose:

To deepen the Swan "VB" State #2 from the present PBTD of 10,101' (5½" csg. to 10,156' TD) to 10,350' and convert to salt water disposal status injecting in 10,156-350' (Open hole) and 10,071-77', 10,104-36' (cased hole)

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

Attn: Nelson Muncy

III. Well Data:

See attached well data sheet.

V. Ownership map attached (Midland Map Co.) with a scale of:
1" = 2,000'.
Well and lease information posted through 4-15-83. Map has a two-mile radius circle and a one-half mile radius circle.

VI. There are six wells, not including the proposed disposal well within the area of review, as indicated by the attached map. All available data concerning the six wells is included in the attached tabulation and schematic.

VII. Data on proposed operations:

- (1). The proposed average daily rate of injection is 2,000 bbls per day and the estimated ultimate maximum daily rate is 4,000 bbls per day. The estimated total volume of fluids to be injected is 2.19×10^7 bbls.
- (2). The system will be closed with an oil seal.
- (3). The average injection pressure is 0 to 2,031 PSIG.
- (4). The source of the injection fluid will be produced water from the following Yates Petroleum Corporation wells that are producing from the Permo-Upper penn zone in the general area of the subject well, identified as follows:
 - a. Woodpecker "SY" St. #1
660' FNL & 660' FEL
Sec. 21-T14S-R33E
See attached analysis.
 - b. Woodpecker "SY" St. #2
1980' FNL & 660' FEL
Sec. 21-T14S-R33E
See attached analysis
 - c. Woodpecker "SY" St. #3
660' FNL & 1800' FEL
Sec. 21-T14S-R33E
See attached analysis.
 - d. Woodpecker "SY" St. #4
660' FNL & 1980' FWL
Sec. 21-T14S-R33E
See attached analysis

- e. Woodpecker "SY" St. #5
1980' FNL & 1980' FEL
Sec. 21-T14S-R33E
No analysis available at this time. Any analysis should be consistent with those of other wells in this area.
- f. Swan "VB" St. #1
1980' FSL & 660' FEL
Sec. 21-T14S-R33E
See attached analysis.
- g. Dove "VK" St. #1
1980' FSL & 660' FEL
Sec. 3-T14S-R33E
See attached analysis.
- h. Hanladdie "WR" St. #1
1980' FSL & 1980' FWL
Sec. 9-T14S-R33E
See attached analysis.

The water produced from subsequently drilled wells in this area will also utilize the disposal well covered by this application.

(4). & (5).

The produced chlorides range from 10,897-92,000 MG/L in the wells that are proposed to be the source of injected fluids. The subject well is not open in the proposed injection zones and a water analysis is not available. However, a water analysis for the proposed injection zone is available from the LDM Amoco "GX" St. #1 (2½ miles west in Sec. 19-T14S-R33E), which reported the chlorides as 18,000 MG/L from the attached DST #5 (10,410-450'). Therefore, injection compatibility appears acceptable.

The proposed injection zone is included within the vertical limits of the Saunders Permo-Upper Penn pool, as correlative with the Adobe Gray 35-1 in Unit N of Sec. 36-T14S-R33E, the type well for the field rules. However, the proposed injection zones are stratigraphically lower than the oil productive zone in this field.

VIII. Geological data:

Injection zone: Lower Cisco (Permo-Upper Penn) 10071-10136' limestone, buff, to white, calc, sli. fragmented, xln. Canyon (Permo-Upper Penn) 10,156-350', dolomite, wht creamy, xln, vuggy good porosity, decreasing with depth.

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. The Chinlee formation is also a fresh water aquifer which immediately underlies the Ogollala formation. Both of these aquifers are behind the surface pipe of the well covered by this application.

IX. The proposed stimulation program is to selectively treat the proposed Cisco perforations 10071-10136 and open hole Canyon zone 10156-10350 with 5,000 gallons of 15% acid each.

X. CNL, FDC, DLL, logs have been submitted to the NMOCD in Hobbs.

- XI. The only water well of record within the one-mile radius circle is located in Unit L of Sec. 27-T14S-R33E. A water analysis from a sample obtained on February 4, 1983 is attached.
- 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 off-set operators listed below have been furnished a copy of this application by certified mail.

Yates Petroleum Corporation
207 S. 4th Street
Artesia, N.M. 88210

American Petrofina
P.O. Box 2159
Dallas, Tx 75250

McGraff & Smith
209 Gihls Tower West
Midland, Tx 79701

MWJ Producing Company
1804 1st Natl Bank Bldg.
Midland, Tx 79701

Texaco, Inc.
P.O. Box 2767
Houston, Tx 77097

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

Geraldine Tulk
Box 666
Lovington, NM 88260

Raymond M & Marsha Hilburn
Box 303
Caprock, NM 88213

Texaco, Inc.
402 W. Ave E
Lovington, NM 88260

Jerry & Bob Dean
Box 845
Lovington, NM 88260

Additional data submitted:

Petroleum information (P.I.) cards submitted on all wells within a two-mile radius circle.

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Yates Petroleum Corporation	Swan "VB"			(St. Lse #LG-3675)
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	1980' FSL & 1980' FEL	21	14S	33#

Schematic

see attached

Tabular DataSurface CasingSize 13 3/8" " Cemented with 400 sx.TOC Surface feet determined by visualHole size 17 1/2"Intermediate CasingSize 8 5/8" " Cemented with 2598 sx.TOC Surface feet determined by visualHole size 12 1/4"Long stringSize 5 1/2" " Cemented with 925 sx.TOC 7790' feet determined by Cmt. Bond LogHole size 7 7/8"Total depth 10,350'Injection interval1007' feet to 10136' feet (perforated)
(perforated or open-hole, indicate which)10156' to 10350' (Open hole)

Tubing size 2 7/8" (or) 3 1/2" OP lined with Plastic set in a
(material)
guiberson UNI VI packer at 1-000' feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Cisco Canyon
- Name of Field or Pool (if applicable) Saunders Permo-Upper Penn
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oil production
- 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) 9793-9805, 9825-27'
9837-39, 9843-54', 9887-9909, 9933-35', 9947-52, to be squeezed with 125 sxs cement.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Bough A,B, & C, 9793-9952'.

TABULATION

Swan "VB" St. #2
Form C-108 attachment

Wells within the area of review:

Atlantic Hondo State #1: (Formerly the "U" State #1) 660' FSL & 660' FEL. Sec. 21-T14S-R33E. Originally spudded on 10-5-51, P/A 12-21-51. TD 10,028, Permo-Penn. Casing: 13 3/8" at 377' with 400 sacks, 17 1/2" hole size. 9 5/8" at 4109' with 3500 sacks 12 1/4" hole. P/A on 12-21-51 with 200 sacks, at 9274-9800' and 100 sack plug at 3856-4109'. Surface plug from 0-38'. Carl J. Westlund Inc. re-entered this well on 1-22-61. Cleaned out and ran 4 1/2" casing at 10,025' with 200 sacks in 8 3/4" hole. Perforations 9925-9939', 9882-9898', 9840-9852'. Tested 5 bbls oil per day on 7-23-61. Operator changed to McGraff & Smith on 5-6-63, effective 9-1-63. Well was P/A on 1-28-64. A plug was set at 10,000' with 25 sacks, Shot off 4 1/2" casing at 5216', ran 25 sack plug, ran 25 sack plug at 4100' base of 9 5/8", 10 sacks plug at surface. Schematic attached.

Swan "VB" #1: An oil well. Operated by Yates Petroleum Corporation. Located 1980' FSL & 660' FEL of Sec. 21-T14S-R33E. Spudded on 8-24-82, completed on 11-3-82 in the Permo-Upper-Penn (Bough). TD 10,324'. Production perforations from 9872-9948'. Perforated at 10,169-239' Squeezed 75 sacks. Perforated at 10,107-137'. Set cast iron BP at 10,090.

Woodpecker "SY" #2: An Oil well. Operated by Yates Petroleum Corporation. Located 1980' FNL & 660' FEL of Sec. 21-T14S-R33E. Spudded on 5-12-82 and completed on 8-9-82. TD 10,100'. 284 bbls oil per day (Bough). 9790-9963'. Casing 13 3/8" at 450' with 500 sacks. 5 1/2" at 10,100 with 750 sacks. Production perforations from 9790-9964' (Bough).

Woodpecker "SY" #3: An oil well. Operated by Yates Petroleum Corporation. Located 660' FNL & 1800' FEL of Sec. 21-T14S-R33E. Spudded on 7-5-82 and completed on 8-26-82. TD 10,150'. 428 bbls oil per day (Bough). Casing 13 3/8" at 452' with 450 sacks, 8 5/8" at 4100' with 1815 sacks, and 5 1/2" at 10,150 with 700 sacks. Production perforations from 9910-42, 9816-72'.

Woodpecker "SY" #5: An oil well. Operated by Yates Petroleum Corporation. Located 1980' FNL & 1980' FEL of Sec. 21-T14S-R33E. Spudded on 10-9-82 and completed on 1-10-83. TD, 10,160'. 290 bbls oil per day from Permo-Penn. Casing 13 3/8" at 450' with 450 sacks, 8 5/8" at 4185' with 1350 sacks and 5 1/2" at 10,071 with 1300 sacks. Perforations 9941-42', 9949-53', 9955-62', 9886-99', 9903-05'. Production perforations, 9886-9962'.

Woodpecker "SY" #6: Operated by Yates Petroleum Corporation. Located 1980' FNL & 1980' FWL of Sec. 21-T14S-R33E. Spudded on 3-10-83. TD 10,131'. Casing, 13 3/8" at 472' with 450 sacks, 8 5/8" at 4185' with 425 sacks and 5 1/2" at 10,015' with 900 sacks, top of cement by temperature survey, 6900'. Well is in process of being completed. Perforated at 9936-55'. Squeezed with 50 sacks. In process of perforating next Bough zone up the hole at this time.

ATLANTIC HONDO STATE #1
 (Formerly "U" State #1)
 S21-T14S-R33E
 660' FSL & 660' FEL
 Lea Co, New Mexico

Spud: 10-5-51
 P/A: 12-21-51
 Oil String not run

Re-entry: 1-22-61
 Comp: 7-23-61

P/A: 1-28-64

25 sx. plug base
 9 5/8" at 4100'

4 1/2" csg. cut at 5216'

10 sx. plug at surface

13 3/8"-377'-400 sxs.
 (17 1/2" hole)

9 5/8"-4109'-3500 sxs
 (12 1/4" hole)

25 sx. plug in/out 4 1/2"
 stub at 5216'.

8 3/4" hole

Hole Sizes:

377'-17 1/2"

4109'-12 1/4"

10,028'-8 3/4"

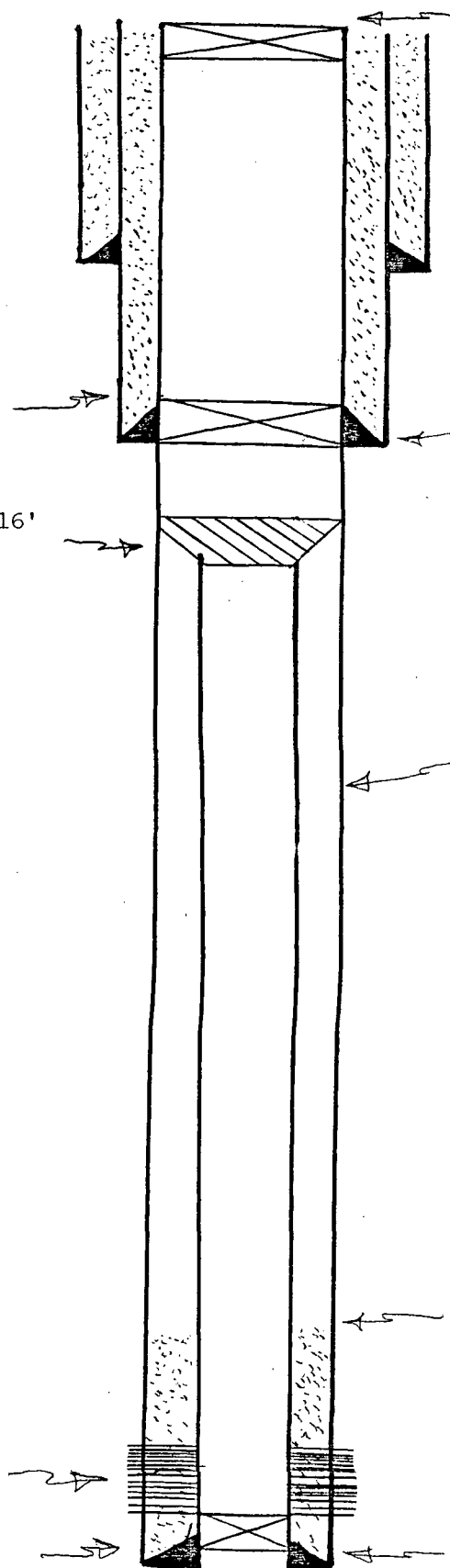
Calculated top of cement
 9145'.

Perfs:
 9840-9939'

4 1/2" set at
 10,025'.

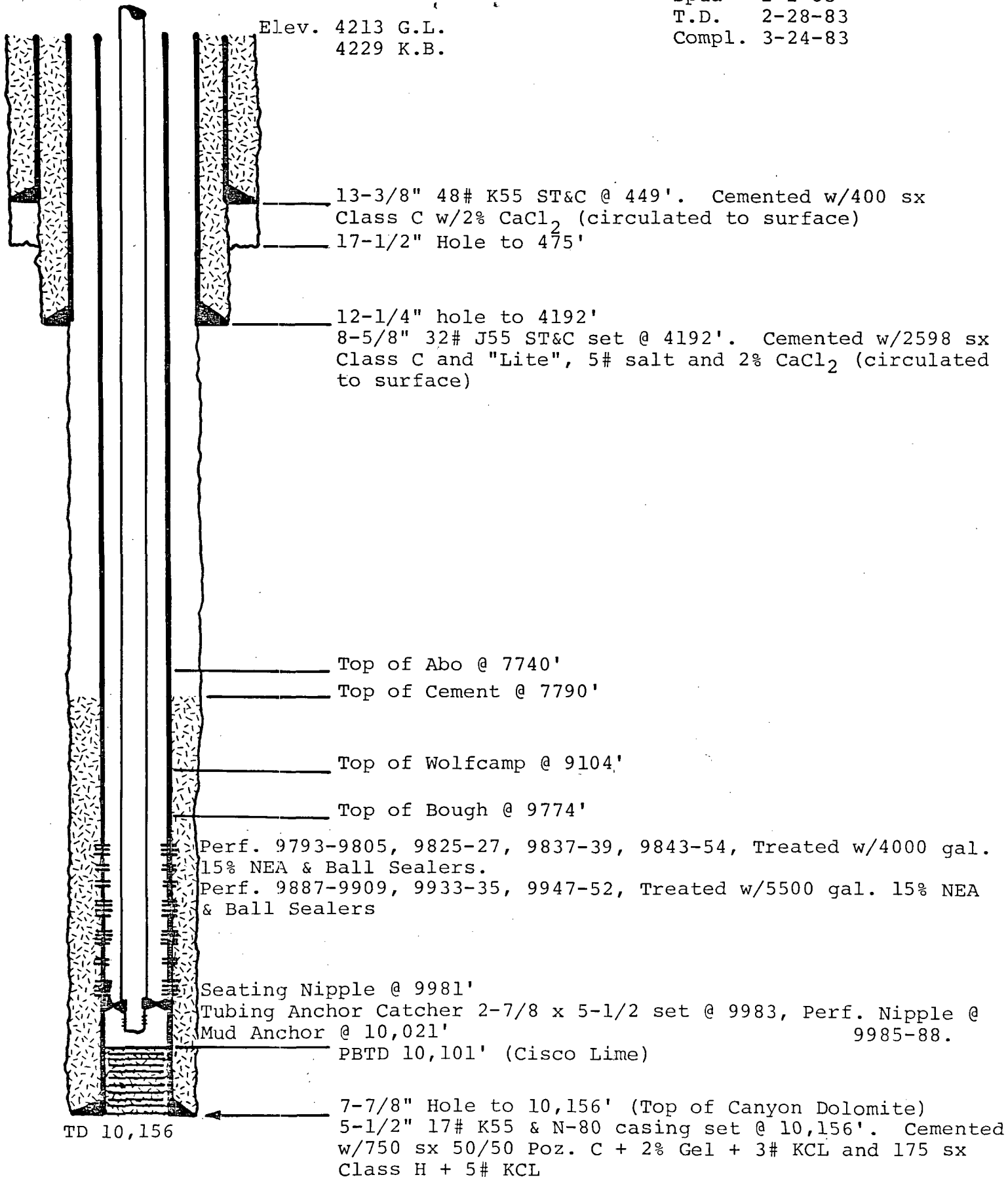
25 sx. plug 9,925-10,000'.

TD 10,028'



Present Well Condition

YATES PETROLEUM CORP.
SWAN "VB" ST. #2
CISCO FORMATION
LEA COUNTY, NEW MEXICO
Spud 2-2-83
T.D. 2-28-83
Compl. 3-24-83



Proposed Disposal Well Diagram

YATES PETROLEUM CORP.
SWAN "VB" ST. #2
CISCO FORMATION
LEA COUNTY, NEW MEXICO

Spud 2-2-83
T.D. 2-28-83
Compl. 3-24-83

Old TD
10,156

New TD
10,350'

Elev. 4213 G.L.
4229 K.B.

13-3/8" 48# K55 ST&C @ 449'. Cemented w/400 sx
Class C w/2% CaCl₂ (circulated to surface)
17-1/2" Hole to 475'

12-1/4" hole to 4192'
8-5/8" 32# J55 ST&C set @ 4192'. Cemented w/2598 sx
Class C and "Lite", 5# salt and 2% CaCl₂ (circulated
to surface)

Top of Abo @ 7740'

Top of Cement @ 7790'

Top of Wolfcamp @ 9104'

Top of Bough @ 9774'

Squeeze Bough perforations 9793-9952'.

5 1/2" X 2 7/8" annulus loaded with inhibited fresh water

2 7/8" plastic coated J-55 tubing with Guiberson double-
grip packer at about 10,000'.

Perforate Cisco- 10071-77' & 10104-36' for injection zone.
5 1/2" 17# N-80 Casing set at 10,156 cemented with 925 sacks.
Deepen from old TD of 10,156 to 10,350.
Estimated top of Canyon at 10,158'.

Open hole completion 10,156-10,350' for injection zone
porous dolomite reef.

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

Yates Petroleum Corporation

Address of Operator

207 South 4th St., Artesia, NM 88210

Location of Well

LETTER J LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM

East LINE OF SEC. 21 TWP. 14S RGE. 33E NMPM

Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
2-2-83	2-28-83	3-24-83	4213' GR	

Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
10155'	10101'			0-10155'	

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

9793-9952' Permo Penn

25. Was Directional Survey Made

No

Type Electric and Other Logs Run

CNL/FDC; DLL

27. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	449'	17-1/2"	400	
8-5/8"	32#	4192'	12-1/4"	2598	
5-1/2"	17#	10155'	7-7/8"	925	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	9982'	

30. TUBING RECORD

Perforation Record (Interval, size and number)

9887-9909' w/15 .40" holes
9933-9952' w/9 .40" holes
9793-9854' w/22 .40" holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
9887-9909'	w/3500 g. 15% NEA + balls.
9933-9952'	w/2000 g. 15% NEA + balls.
9793-9909'	Treat all perfs w/4000g. 15% NEA & balls.

PRODUCTION

First Production	3-22-83	Production Method (Flowing, gas lift, pumping - Size and type pump)	Pumping	Well Status (Prod. or Shut-in)	Producing									
Date of Test	3-24-83	Hours Tested	24	Coke Size	Open	Prod'n. For Test Period	Oil - Bbl.	20	Gas - MCF	203	Water - Bbl.	605	Gas - Oil Ratio	10150/1
Flow Tubing Press.	20#	Casing Pressure	20#	Calculated 24-Hour Rate	20	Oil - Bbl.	20	Gas - MCF	203	Water - Bbl.	605	Oil Gravity - API (Corr.)	40°	
Disposition of Gas (Sold, used for fuel, vented, etc.)	Sold												Test Witnessed By	Darrel Atkins

List of Attachments

Deviation Survey

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

SIGNED

TITLE Production Supervisor

DATE 4-6-83

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in 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	1702	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt Base	2550	T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	2665	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen	3440	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4060	T. Simpson		T. Gallup		T. Ignacio Qizte	
T. Glorieta	5615	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinberry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	7027	T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	7762	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp Ls	9112	T. XX Marker	9330	T. Chinle		T.	
T. Penn.		T. Virgilian	9741	T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

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	650	650	Surface, Redbeds				
650	1725	1075	Redbeds, Anhydrite				
1725	3780	2055	Anhydrite, Salt				
3780	3882	102	Anhydrite				
3882	3971	89	Dolomite				
3971	4173	202	Anhydrite				
4173	7707	3534	Dolomite				
7707	7860	153	Dolomite, Shale				
7860	8032	172	Shale				
8032	8182	150	Lime, Shale				
8182	9284	1102	Dolomite, Shale				
9284	9373	89	Lime, Shale				
9373	9415	42	Dolomite, Lime, Shale				
9415	10105	690	Lime, Shale				
10105	10155	50	Dolomite, Shale				

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W83-455

To Yates Petroleum Corporation

Date 4-20-83

207 S. 4th Street

Artesia, New Mexico

ATTN: Mr. Eddie Mahfood

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. 4-19-83

Well No. Woodpecker #6

Depth

Formation

County

Field

Source

Resistivity 0.190 @ 74°F.

Specific Gravity 1.032

pH 6.0

Calcium (Ca) 5,000

*MPL

Magnesium (Mg) 1,200

Chlorides (Cl) 23,000

Sulfates (SO₄) 2,700Bicarbonates (HCO₃) 1,220

Soluble Iron (Fe) Nil

Remarks:

*Milligrams per liter

Respectfully submitted,

By Brewer

HALLIBURTON COMPANY

Harvey Apple - GeoVarn, Inc.

Box 38

Artesia, New Mexico

By

W. L. Brewer

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

UNICHEM INTERNATIONAL

401 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : YATES PETROLEUM
DATE : 11-22-82
FIELD/LEASE/WELL : WOODPECKER #2
SAMPLING POINT: WELLHEAD
DATE SAMPLED : 11-19-82

SPECIFIC GRAVITY = 1.044
TOTAL DISSOLVED SOLIDS = 65676
PH = 6.92

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	106	2137
MAGNESIUM	(MG)+2	183	2228
SODIUM	(NA).CALC.	859	19765
ANIONS			
BICARBONATE	(HCO3)-1	11.8	719
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	38.1	1833
CHLORIDES	(CL)-1	1099	38991
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	45	19.9
HYDROGEN SULFIDE	(H2S)	30	311
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		
BARIUM	(BA)+2	NOT RUN	17.6
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING

30C
86F
406
LIKELY

SULFATE INDEX
CALCIUM SULFATE SCALING

-27
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P O BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : YATES PETROLEUM
DATE : 11-22-82
FIELD/LEASE/Well : WOODPECKER #3
SAMPLING POINT: WELLHEAD
DATE SAMPLED : 11-19-82

SPECIFIC GRAVITY = 1.018
TOTAL DISSOLVED SOLIDS = 27850
= 7.56

CATIONS

Calcium
Magnesium
Sodium

(CA)+2
(MG)+2
(NA), CALC.

ME/L

MG/G

48.6
39.3
370

975
478
8513

ANIONS

Carbonate
Bicarbonate
Nitrate
Sulfate
Chlorides

(HCO3)-1
(CO3)-2
(OH)-1
(SO4)-2
(CL)-1

23.4
0
0
82.4
352

1127
0
0
3758
13497

DISSOLVED GASES

Carbon Dioxide
Hydrogen Sulfide
Nitrogen

(CO2)
(H2S)
(O2)

22
18
NOT RUN

9.9
306

Iron (Total)
Copper
Manganese

(FE)
(BA)+2
(MN)

NOT RUN
NOT RUN

309

SCALING INDEX

TEMP

Carbonate Index
Calcium Carbonate Scaling

30C
86F
1.19

LIKELY

Sulfate Index
Calcium Sulfate Scaling

-2.9
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY YATES PETROLEUM

WTE 11-22-82

WELL LEASES WELL

SWAN #1

SAMPLING POINT: WELLHEAD

DATE SAMPLED 11-19-82

SPECIFIC GRAVITY = 1.016

TOTAL DISSOLVED SOLIDS = 24376

W = 7.49

		ME/L	MC/L
CATIONS			
CALCIUM	(CA)+2	46	921
MAGNESIUM	(MG)+2	17	571
SODIUM	(NA), CALC.	309	7118
ANIONS			
BICARBONATE	(HCO3)-1	22.4	1366
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	72.8	3500
CHLORIDES	(CL)-1	307	10897
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	0	0
HYDROGEN SULFIDE	(H2S)	21	357
HYDROGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		2.1
CHROMIUM	(CR)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

30C

86F

1.11

LIKELY

0

CARBONATE INDEX

CUM CARBONATE SCALING

SULFATE INDEX

CUM SULFATE SCALING

-5.1

UNLIKELY

Deviation 0002 017 006----

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W83-335To Yates Petroleum CorporationDate 3-16-83207 S. 4th StreetArtesia, New MexicoATTN: Mr. Eddie Mahfood

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. 3-16-83Well No. As Marked Depth _____ Formation _____

County _____ Field _____ Source _____

	<u>Swann #2 3-10-83</u>	<u>Swann #2 3-15-83</u>	<u>Dove #2 3-15-83</u>
Resistivity _____	<u>0.227 @ 70°F.</u>	<u>0.157 @ 70°F.</u>	<u>0.155 @ 70°F.</u>
Specific Gravity _____	<u>1.030</u>	<u>1.044</u>	<u>1.042</u>
pH _____	<u>6.2</u>	<u>5.7</u>	<u>5.8</u>
Calcium (Ca) _____	<u>6,000</u>	<u>8,000</u>	<u>7,700</u> *MPL
Magnesium (Mg) _____	<u>Nil</u>	<u>Nil</u>	<u>Nil</u>
Chlorides (Cl) _____	<u>21,000</u>	<u>35,000</u>	<u>33,000</u>
Sulfates (SO ₄) _____	<u>2,450</u>	<u>2,300</u>	<u>2,200</u>
Bicarbonates (HCO ₃) _____	<u>1,040</u>	<u>780</u>	<u>510</u>
Soluble Iron (Fe) _____	<u>Nil</u>	<u>Nil</u>	<u>Nil</u>

Remarks: _____

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer
Harvey Apple - GeoVann, Inc.
Box 38
Artesia, New Mexico

HALLIBURTON COMPANY

By _____

CHEMIST

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.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W83-001

To Yates Petroleum Corporation

Date 1-1-83

207 S. 4th Street

Artesia, New Mexico

ATTN: Mr. Eddie Mahfood

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 course of regular business operations by any person or company and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 1-1-83

Well No. Dove #1 Depth _____ Formation _____

County _____ Field _____ Source _____

Resistivity 0.063 @ 70°F.

Specific Gravity 1.110

pH 5.3

Calcium (Ca) 11,250

Magnesium (Mg) 6,000

Chlorides (Cl) 89,500

Sulfates (SO₄) 800Bicarbonates (HCO₃) 805

Soluble Iron (Fe) 125

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Thompson

cc: Harvey Apple, GeoVann, Inc.

Box 38

Artesia, New Mexico

HALLIBURTON COMPANY

By

W. L. Brown

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W83-195

To Yates Petroleum Corporation

Date 2-14-83

207 S. 4th Street

Artesia, New Mexico

ATTN: Mr. Eddie Mahfood

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. 2-14-83

Well No. Hanladdie "WR" St. #1 Depth 9,900' Formation _____

County Eddy Field Saunders Source _____

	2-11-83	2-12-83	
Resistivity	0.082 @ 74°F.	0.082 @ 74°F.	
Specific Gravity	1.104	1.104	
pH	5.7	5.8	
Calcium (Ca)	24,000	23,200	*MPL
Magnesium (Mg)	2,520	2,400	
Chlorides (Cl)	92,000	92,000	
Sulfates (SO ₄)	1,150	1,200	
Bicarbonates (HCO ₃)	1,030	1,050	
Soluble Iron (Fe)	110	100	
API Gr.	31.0 @ 60°F.	31.2 @ 60°F.	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By

W L Brewer
CHEMIST

NOTICE

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DRILL STEM TESTS

Yates Petroleum Corporation
LDM-AMOCO GX State No. 1 (L-45 Lease #)
Section 19-T14S-R33E
Lea County, New Mexico

DST No. 1 - 10052-10168' TO 30", SI 60", OP 60", SI 120". TO w/blow
Reop w/blow and died. Recovered: - 700' DM 3100' SW - no gas.
Sampler: 1800 cc salt water. Pressures: HP 4828-4786'; IFP 518-1549;
ISIP 1679; FFP 1549-1634; FSIP 1677. BHT 146 deg.

DST #2 - 10190-10321' - TO 30", SI 90", OP 120", SI 240". Op w/fair
blow, GTS in 18" increased to 50# on 1/4" choke. Reop w/weak blow, 2#
on 1/4" choke, decreased to 1/2#. Recovered: 4 BOCM, 12 BO&GCM, 5 BGC
sulphur water. Sampler: 1400 cc O & G cut water. Pressures: HP 4845-
4803; IFP 345-432; ISIP 3655; FFP 432-1079; FSIP 3312.

* DST #3 - 10332-10386' - TO 30", SI 90", TO 30", SI 60". Op w/good blow,
2# on 1/4" choke decreasing. Reop w/weak blow, dead in 15". Recovered:
300' of black mud and water, 8250' of salty sulphur water, no oil or gas.
Sampler: 160#, 1900 cc sulphur water, no oil or gas. Pressures: HP 4972-
4930' IFP 1036-3655; ISIP 3826; FFP 3655-3826; FSIP 3826.

DST #4 - 12656-830' - TO 30", SI 90", OP 120", SI 180". Op w/weak blow.
Reop w/weak blow. No GTS. Recoveree: 1500' WC, 289' GCM. Sampler:
No fluid. 540 psi 1.4 cfg. Pressures: HP 6205-6205; IFP no reading.
ISIP 909; FFP 909-974; FSIP 1509.

* DST #5 - 10410-450 (Straddle) - TO 30", SI 60", TO 60", SI 90". TO
w/strong blow. Reop w/strong blow, 5# on 1/8" choke after 45", decreased
to weak blow. Recovered: 1000' WB, sli GC slphur wtr at 7646'.
Sampler: 2800 cc sulphur water, 18000 ppm cl. Pressures: HP 5204-5204,
IFP 1388-3393, ISIP 3850, FFP 3419-3850, FSIP 3850.

* Proposed injection zone

NO.

ANALYSIS NO.

GENERAL INFORMATION

OPERATOR YATES	DATE SAMPLED 2/23/83
WELL WATER WATER	DATE RECEIVED 2/23/83
FIELD (UNIT L) S27-T14S-R33E	SUBMITTED BY
FORMATION	WORKED BY Kim Price
COUNTY Lea	SAMPLE DESCRIPTION:
STATE New Mexico	
DEPTH	

SPECIFIC GRAVITY 1.002 AT 72 °F

TOTAL DISSOLVED SOLIDS

PPM

pH 7.7

RESISTIVITY 12 @ 2.2" F

PPM

IRON

None

SULFATE 100

PPM

HYDROGEN SULFIDE

Name

BICARBONATE 422

PPM

HARDNESS

440

CHLORIDE

PPM

CALCIUM

80

SODIUM CHLORIDE

PPM

MAGNESIUM

58

PPM

SODIUM

PPM

SODIUM & POTASSIUM

40

PPM

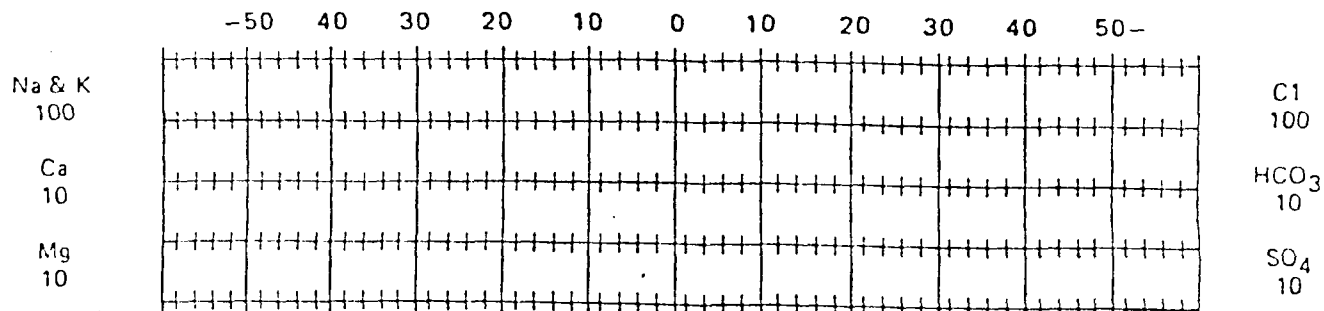
POTASSIUM

PPM

PHOSPHATE

REMARKS:

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



ANALYST

* THIS WELL IS OUTSIDE (1/2 MILE) AREA REVIEW.

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY COSDEN PETROLEUM CORPORATION, BOX 1311, Big Spring, Texas
(Address)

LEASE State "E" WELL NO. 1 UNIT M S 21 T -14-S R 33-E
DATE WORK PERFORMED February 4, 1962 POOL Undesignated

This is a Report of: (Check appropriate block) ☒ Results of Test of Casing Shut-off

☐ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☐ Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

T.D. 4,179'

Ran 8-5/8" 24# & 32# J-55, 8 Rd ST&C R-2 casing set at 4,179'

Cemented w/ 1600 sx Incor Pozmix / 6% Gel & 200 Sx Incor Neat cement. Cement circulated P.D. @ 12:15 A.M. Feb. 4, 1962.

Tested casing w/ 1,000 psi for 30 minutes - o.k.

To WOC 36 hrs and drill ahead.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas-Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by _____

(Company)

☐ Beginning Drilling Operations

☐ Remedial work

☐ Plugging

☐ Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

T.D. 4,179'

Ran 8-5/8" 244 & 324 J-55, 8 Rd ST&C R-2 casing set at 4,179'

Cemented w/ 1600 sx Incor Pozmix / 6% Gel & 200 Sx Incor Neat cement. Cement circulated P.D. @ 12:15 A.M. Feb. 4, 1962.

Tested casing w/ 1,000 psi for 30 minutes - o.k.

To WOC 36 hrs and drill ahead.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test

Oil Production, bbls. per day

Gas Production, Mcf per day

Water Production, bbls. per day

Gas-Oil Ratio, cu. ft. per bbl.

Gas Well Potential, Mcf per day

Witnessed by _____

(Company)

OIL CONSERVATION COMMISSION

Name _____
Title _____
Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name _____ H.L. Weeks
Position Supt. of Production
Company COSDEN PETROLEUM CORPORATION

☒ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☐ Other _____

Detailed account of work done, nature, and quantity of materials used and results obtained.

Spudded 12:30 PM 1-26-62

T.D. 356' - Set 13-3/8" 48# H-40 Casing at 310'

Cemented w/ 325 Sx Incor Heat Cement. Cement circulated

P.D. 9:55 AM 1-27-62 W.O.C. 24 hrs

Tested casing w/ 600 psi for 30 minutes. test o.k.

Drilling ahead

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test

Oil Production, bbls. per day

Gas Production, Mcf per day

Water Production, bbls. per day

Gas-Oil Ratio, cu. ft. per bbl.

Gas Well Potential, Mcf per day

Witnessed by _____

(Company)

OIL CONSERVATION COMMISSION

Name Leslie A. Clements

Title _____

Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name H.L. Weeks

Position Supt. of Production

Company COSDEN PETROLEUM CORPORATION

NOTICE OF INTENTION TO DRILL

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in QUINTUPPLICATE. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. If State Land submit 6 Copies Attach Form C-128 in triplicate to first 3 copies of form C-101.

Big Spring, Texas

January 15, 1962

(Place)

(Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the Drilling of a well to be known as
Cosden Petroleum Corporation

(Company or Operator)

State "TX"

(Lease)

Well No. **1**, in **N 2** The well is

located **660** feet from the **South** line and **660** feet from the

West

line of Section **21**, T **14-S**, R **33-E**, NMPM.

(GIVE LOCATION FROM SECTION LINE)

Saunders

Pool, **Lea** County

If State Land the Oil and Gas Lease is No. **E-6475**

If patented land the owner is

Address

We propose to drill well with drilling equipment as follows: **Adequate Rotary**
drilling equipment

The status of plugging bond is **in effect**

Drilling Contractor **not known**

We intend to complete this well in the **Pennsylvanian**
formation at an approximate depth of **10,200** feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
17-1/4"	13-3/8 OD	48	New	300	Approx. 275
11	8-5/8 OD	24 - 32	New	Approx 4200	" 1500
7-7/8"	5-1/2 OD	15.5 - 17	New	T.D.	300

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

Approved **19**
Except as follows: **13 3/8 CASING**

OIL CONSERVATION COMMISSION

By

Sincerely yours,

COSDEN PETROLEUM CORPORATION
(Company or Operator)

By **E.L. Weck**

Position **Supt. of Production**

Send Communications regarding well to

Name **Cosden Petroleum Corporation**

Address **Box 1311, Big Spring, Texas**

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator COSDEN PETROLEUM CORP.		Lease STATE "E"		Well No. 1
Unit Letter R M	Section 21	Township 14 SOUTH	Range 33 EAST	County LEA COUNTY
Actual Footage Location of Well: 660 feet from the SOUTH line and 660 feet from the WEST line				
Ground Level Elev. 4210'	Producing Formation Pennsylvanian	Pool Saunders	Dedicated Acreage: 40 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES **XX** NO ____ . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ____ NO ____ . If answer is "yes," Type of Consolidation ____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B

NOTE: THE LOCATION IS 1 FOOT HIGHER THAN THE AMERADA STATE "K" No. 1, LOCATED IN THE SE $\frac{1}{4}$ SE $\frac{1}{4}$ OF SEC. 29, TOWNSHIP 14 SOUTH, RANGE 33 EAST.

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name
H. L. Weeks
Position
Supt. of Production
Company
COSDEN PETROLEUM CORP.
Date
January 15, 1962

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

Date Surveyed
JANUARY 13, 1962
Registered Professional Engineer and/or Land Surveyor, **JOHN W. WEST**
Certificate No.
N.M. - P.E. & L.S. NO. 678

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY CODEN PETROLEUM CORPORATION, Box 1311, Big Spring, Texas
(Address)

LEASE State "E" WELL NO. 1 UNIT M S 21 T 14S R 33E

DATE WORK PERFORMED 3-6-62 POOL Undesignated

This is a Report of: (Check appropriate block) ☒ Results of Test of Casing Shut-off

☐ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☐ Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

T.D. 10,030'

Ran 320 Jts 5-1/2" 17# J-55 & N-80 LT&C Rge 2 & 3 8rd smls casing. Set at 10,030'
Cmt w/ 300 sx Slo-set + 2% Gel
Plug down at 11:35 A.M. 3-6-62
W.O.C. 24 hrs - tested csg w/ 1500# for 30 mins. - test o.k.

To Log and Perforate

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas-Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by _____

(Company)

☐ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☐ Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.

T.D. 10,030'

Ran 320 Jts 5-1/2" 17# J-55 & N-80 LT&C Rge 2 & 3 8rd smls casing. Set at 10,030'

Cmt w/ 300 sx Sls-set + 2% Gel

Plug down at 11:35 A.M. 3-6-62

W.O.C. 24 hrs - tested csg w/ 1500# for 30 mins. - test o.k.

To Log and Perforate

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test _____

Oil Production, bbls. per day _____

Gas Production, Mcf per day _____

Water Production, bbls. per day _____

Gas-Oil Ratio, cu. ft. per bbl. _____

Gas Well Potential, Mcf per day _____

Witnessed by _____

(Company) _____

OIL CONSERVATION COMMISSION

Name _____

Title _____

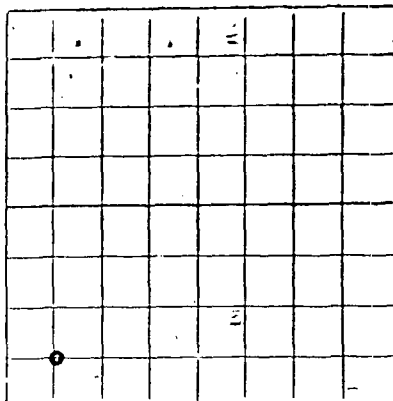
Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name H.L. Weeks H.L. Weeks

Position Supt. of Production

Company COSDEN PETROLEUM CORPORATION



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

COSDEN PETROLEUM CORPORATION

(Company or Operator)

State E

(Lease)

Well No. **1**, in **SW** $\frac{1}{4}$ of **SW** $\frac{1}{4}$, of Sec. **21**, T. **14-S**, R. **33-E**, NMPM.

Undesignated

Pool,

Lea

County.

Well is **660** feet from **South** line and **660** feet from **West** line

of Section **21**. If State Land the Oil and Gas Lease No. is

Drilling Commenced **1-26**, 19 **62**. Drilling was Completed **3-3**, 19 **62**.

Name of Drilling Contractor **Brantly Drilling Co., Inc.**

Address **P. O. Box 4935, Midland, Texas**

Elevation above sea level at Top of Tubing Head **4,221**. The information given is to be kept confidential until

OIL SANDS OR ZONES

No. 1, from **9,830** to **9,915** No. 4, from to

No. 2, from **9,915** to **9,970** 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	48#	New	310	T.P.	-	-	Surface
8-5/8	32# - 24#	New	4179	Guide	-	-	Intermediate
5-1/2	17#	New & Used	10,030	Guide	-	9836 to 10,000	Production

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2	13-3/8	310	325	pump & plug		cement circulated
11	8-5/8	4179	1800	plug & pull		

Well No. 1, in SW $\frac{1}{4}$ of SW $\frac{1}{4}$, of Sec. 21, T. 14-S, R. 33-E, NMPM.
 Undesignated Pool, Lee County.
 Well is 660 feet from South line and 660 feet from West line
 of Section 21. If State Land the Oil and Gas Lease No. is _____
 Drilling Commenced 1-26, 19 62 Drilling was Completed 3-3, 19 62.
 Name of Drilling Contractor Brantly Drilling Co., Inc.
 Address P. O. Box 4935, Midland, Texas
 Elevation above sea level at Top of Tubing Head 4,221. The information given is to be kept confidential until
 _____, 19 _____.

OIL SANDS OR ZONES

No. 1, from 9,830 to 9,915 No. 4, from _____ to _____
 No. 2, from 9,915 to 9,970 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	48#	New	310	T.P.	-	-	Surface
8-5/8	32# - 24#	New	4179	Guide	-	-	Intermediate
5-1/2	17#	New & Used	10,030	Guide	-	9836 to 10,000	Production

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2	13-3/8	310	325	pump & plug		cement circulated
11	8-5/8	4179	1800	pump & plug		cement circulated
7-7/8	5-1/2	10,030	300	pump & plug		

RECORD OF PRODUCTION AND STIMULATION

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

Acidize csg perfs 9972-80; 9950-52; 9925-35 w/ 500 gal, 2,000 gal, 5,000 gal, 10,000 gal acid.
 Acidize csg perfs 9887-95; 9873-81; 9866-70; 9856-62; 9836-42 w/ 2,000 gal acid. Squeezed
 perfs 9836-9895 w/ 150 sx cement & 125 sx cement. Acidize csg perfs 9972-80 w/ 400 gal, pkr
 failed - Acidize csg perfs 9925-80 w/ 550 gal, pkr failed - Acidize csg perfs 9887-9980 w/
 2,000 gal, 3,500 gal, & 7,100 gal. Acidize csg perfs 9994-10,000 w/ 500 gal.

Result of Production Stimulation 20 BO & 95 BW in 24 hrs pumping.

Depth Cleaned Out 10,010

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator COSDEN PETROLEUM CORPORATION Lease State "E"
Well No. 1 Unit Letter M S 21 T 14-S R 33-E Pool Undesignated
County Lea Kind of Lease (State, Fed. or Patented) State
If well produces oil or condensate, give location of tanks: Unit M S 21 T 14-S R 33-E
Authorized Transporter of Oil or Condensate Indiana Oil Purchasing Company
Address Box 1725, Midland, Texas
(Give address to which approved copy of this form is to be sent)
Authorized Transporter of Gas Warren Petroleum Corporation
Address Box 1589, Tulsa 2, Oklahoma
(Give address to which approved copy of this form is to be sent)
If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well (XX)
Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()
Change in Ownership () Other ()
Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 2 day of July 19 62

By H. L. Weeks H. L. Weeks

Approved _____ 19 _____

Title Supt. of Production

OIL CONSERVATION COMMISSION
By Leslie J. Clements
Title _____

Company COSDEN PETROLEUM CORPORATION
Address Box 1311, Big Spring, Texas

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

RECEIVED JUL 5 AM 8:32

Company or Operator COSDEN PETROLEUM CORPORATION Lease State "E"

Well No. 1 Unit Letter M S 21 T 14-SR 33-E Pool Undesignated

County Lea Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit M S 21 T 14-S R 33-E

Authorized Transporter of Oil or Condensate Indiana Oil Purchasing Company

Address Box 1725, Midland, Texas
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Warren Petroleum Corporation

Address Box 1589, Tulsa 2, Oklahoma
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ☒ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership () Other ()

Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 2 day of July 19 62

By H. L. Weeks H. L. Weeks

Approved _____ 19 _____

Title Supt. of Production

OIL CONSERVATION COMMISSION

Company COSDEN PETROLEUM CORPORATION

By Lester A. Clements

Address Box 1311, Big Spring, Texas

Title _____

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
~~EXISTING WELL~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Big Spring, Texas

May 29, 1962

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

COSDEN PETROLEUM CORPORATION

STATE "E"

Well No. **1**, in **SW** $\frac{1}{4}$ **SW** $\frac{1}{4}$,

(Company or Operator)

(Lease)

M
Unit Letter

Sec. **21**

T. **14-S**

R. **33-E**

NMPM,

Undesignated

Pool

Lea

County. Date Spudded **1-26-62**

Date Drilling Completed

3-3-62

Please indicate location:

Elevation **4221**

Total Depth **10,030**

PBTD **10,010**

Top Oil/Gas Pay **9,925**

Name of Prod. Form. **Penn.**

PRODUCING INTERVAL -

Perforations **9925-35; 9950-52; 9972-80; 9994-10,000**

Open Hole

Depth

Casing Shoe **10,030**

Depth

Tubing **9,900**

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Size _____ Choke

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): **20** bbls. oil, **95** bbls water in **24** hrs, **0** min. Size _____ Choke

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed _____

Choke Size _____ Method of Testing: _____

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): **500 gal mud acid**

Casing _____ Tubing _____ Date first new _____
Press. _____ Press. _____ oil run to tanks **May 14, 1962**

Oil Transporter **Unknown at this time - will notify**

Gas Transporter **Warren Petroleum Corporation**

Tubing, Casing and Cementing Record

Size	Feet	Sax
13-3/8	310-	325
8-5/8	4179	1800
5-1/2	10,030	300
2-1/2	9,900	-0-

Remarks:

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved _____, 19____

COSDEN PETROLEUM CORPORATION

(Company or Operator)

By: _____

H. L. Weeks

(Signature)

Title **Supt. of Production**

Send Communications regarding well to:

Name **Cosden Petroleum Corporation**

Address **P. O. Box 1311, Big Spring, Texas**

OIL CONSERVATION COMMISSION

By: _____

Title _____

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

1962 AUG 27 PM 2 45

Company or Operator COSDEN PETROLEUM CORPORATION Lease STATE R

Well No. 1 Unit Letter M S 21 T 14S R 33E Pool Saunders (Permo-Penn)

County Lea County, New Mexico Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit M S 21 T 14S R 33E

Authorized Transporter of Oil or Condensate Indiana Oil Purchasing Company

Address Box 1725, Midland, Texas

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Warren Petroleum Corporation *Went*

Address Box 1589, TULSA-2, Oklahoma

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership () Other (XX)

Remarks: (Give explanation below)

Well placed in pool.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 24 day of August 19 62

By *H. L. Weeks* H. L. Weeks

Approved 19

Title Supt. of Production

OIL CONSERVATION COMMISSION

Company COSDEN PETROLEUM CORPORATION

By *[Signature]*

Address Box 1311

Title

Big Spring, Texas

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator American Petrofina Company of Texas Lease State E

Well No. 1 Unit Letter M S 21 T 14S R 33E Pool Saunders Permo-Penn

County Lea Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit M S 21 T 14S R 33E

Authorized Transporter of Oil or Condensate Indiana Oil Purchasing Co.

Address Box 1725, Midland, Texas

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Vented

Address

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

TSTM

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership (x) Other ()

Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 6 day of May 19 63

By L.M. Thompson L.M. Thompson

Approved 19

Title Agent

OIL CONSERVATION COMMISSION

Company American Petrofina Company of Texas

By

Address Box 1311

Title

Big Spring, Texas

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOODS OFFICE O. C. C.

MISCELLANEOUS NOTICES

AUG 23 10 40 AM '64

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL	XXX	NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER)		NOTICE OF INTENTION (OTHER)	

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICOBig Spring, Texas
(Place)August 24, 1964
(Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the American Petrofina Company of Texas

(Company or Operator) State E Well No. 1 in M
(Unit)
SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 21, T. 14-S, R. 33-E, NMPM, Saunders (Permo-Penn) Pool
(40-acre Subdivision)
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

This well was shut in in May 1963, and temporarily abandoned in August 1963. Prior to being shut in the production was only 40-50 bbls of oil per month.

Load hole with mud. Spot 25 sacks regular cement at FBTD of 10,010'.

Spot 25 sacks regular cement at approximately 8,000 and cut 5-1/2" casing at this depth.

Spot 25 sacks regular cement at approx. 5600' at the top of the Glorieta formation.

Spot 25 sacks regular cement at approx. 4250', in and out the bottom of 8-5/8"

intermediate casing.

Set 10 sacks regular cement at surface with marker.

Approved AUG 23 1964, 19____
Except as follows: 6400Approved
OIL CONSERVATION COMMISSIONBy J. M. Danson
Title Engineer District 3AMERICAN PETROFINA COMPANY OF TEXAS
Company or Operator
By J. M. DansonPosition District Engineer
Send Communications regarding well to:Name American Petrofina Co. of TexasAddress Box 1311, Big Spring, Texas

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.S. #	
LAND OFFICE	
TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 4106)

Name of Company American Petrofina Company of Texas				Address Box 1311, Big Spring, Texas			
Lease State "E"	Well No. 1	Unit Letter M	Section 21	Township 14-S	Range 33-E		
Date Work Performed 9-16-64 - 9-24-64	Pool Saunders (Permo-Penn)			County Loa			

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☐ Casing Test and Cement Job
 ☐ Other (Explain):
- ☒ Plugging
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Circulated hole with mud.
 Set 25 sack plug @ 9,995 (G.L.)
 Shot pipe @ 7975 (wireline - G.L.)
 Pulled casing.
 Set 25 sack plug @ 7960 (G.L.)
 Set 25 sack plug @ 6432 (G.L.)
 Set 25 sack plug @ 5591 (G.L.)
 Set 25 sack plug @ 4210 (G.L.)
 Set 10 sack plug @ surface and placed marker - 9-24-64.

Witnessed by W. J. Priebe	Position Prod. Foreman	Company American Petrofina Co. of Texas
-------------------------------------	----------------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by <i>Leslie A. Clement</i>	Name <i>H. L. Weeks</i>		
Title	Position Production Advisor		
Date	Company American Petrofina Company of Texas		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company McGrath & Smith		Address 726 Vaughn Building, Midland, Texas			
Lease Hondo State	Well No. 1	Unit Letter F	Section 21	Township 14-South	Range 33-East
Date Work Performed Jan. 28, 1964	Pool Saunders Field (Permo-Penn)			County Lea	

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations ☐ Casing Test and Cement Job ☐ Other (Explain):
☒ Plugging ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

The above described well was plugged and abandoned on January 28, 1964 as follows: used tubing, a 25 sx plug @ 10,000'; 25 sx plug @ 5216', shot-off point of 4½" csg.; 25 sx plug @ 4100' base of 9-5/8" csg. and a 10 sx plug @ surface. Installed appropriate marker, and cleaned off location. Mud is present between all plugs. Hobbs Pipe and Supply called the New Mexico State Engineer to get information where to set the plugs.

Witnessed by Harry Mitchell	Position Engineer	Company McGrath & Smith
---------------------------------------	-----------------------------	---------------------------------------

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P BTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved by <i>John W. Rumsaker</i>	Name Harry Mitchell
Title	Position Engineer
Date	Company McGrath & Smith

CO. LEA		POOL WILDCAT	STATE N.M. KROENLEIN 172-60
		PENN. DISCOVERY	
COMPANY James G. Brown & Assoc. - #1 - Lion State			
LOC. 1980' FSL & FEL			
Sec. 9, T.14-S, R. 33-E			
14,000'			
ACID OR SHOT	CASING RECORD		TOPS
Perf.: 9954-80/104	13 3/8- 364- 225	Glor.	5550
750 MA	8 5/8-4149- 150	Tubb	6973
	5 1/2-10096-300	Abo	7654
		Penn.	9856
SPD. 2-28-60 COMP. 5-2-60			
I. P. P. 261 BO/24 hrs.			
GR. 41. BOR	- TP	CP	
REMARKS			
CONT'D. PAGE 2.			
DST 9833-68 pkr. fail.			

LEA, N.M. 9-14-33
James G. Brown & Assoc. - #1 - Lion State.

K-172-60
PAGE 2.

DST / 9843-68 op. 1 hr. rec. 100' mud, 120' VSO&OCM;
ISIP 660/30"; FP 70-70; FSIP 635/30".
DST 2 9850-9918 op. 58 mins. rec. 1200' VHG&SOCM; ISIP
1615/30"; FP 150-190; FSIP failed/30".
DST 3 9900-70 op. 3 hrs. gas in 7 mins. TSTM; ren out
10 BO Gr. 40; 6 BHO&OCM; rec. below sub 90' HO&OCM
+ 120' salty sul. wtr.; ISIP 2960/30"; FP 210-680;
FSIP 2565/58".
DST 4 9952-85 op. 4 hrs. gas 4 mins. TSTM ren out 15
BO + 10 BHO&OCM w/sul. odor; rec. below sub 100'
salty sul. wtr.; ISIP 3268/30"; FP 169-943; FSIP
2765/60".
Perf. @ 104/9954-80; 750 MA; F. 7 BOPH, 24/64" ch.; TP 125#;
Gr. 41; F. 200 BO + 20 BXW/24 hrs.; TP 75-150#;
1/2" ch.

CO. LEA		POOL SAUNDERS	STATE N.M. KROENLEIN 172-61
COMPANY James G. Brown & Assoc. - #1 - State "G" ELEV 4240			
LOC 1980' FSL & 660' FEL			
Sec. 9, T.14-S, R. 33-E			
10,100' Penn.			
ACID OR SHOT	CASING RECORD		TOPS
Perf: 80/9936-56	13 3/8- 377- 350	Anhy.	1645
750 acid	8 5/8-4185- 150	Yates	2647
reA/750 gals.	5 1/2-9990-	Queen	3405
		S. And.	4135
		Glor.	5555
		Tubb	6993
		Abo	7645
		Penn.	9810
SPD 3-26-61 COMP 5-12-61			
I. P. F. 298 BOPD + 64 BW, 3/4" ch.			
G. 42.8 BOR	- TP 100	CP 42.8	
REMARKS Perf: 9936-56; 750 acid; swb.			
179 BO & 68 BW/24 hrs.; reA/3000, swb. &			
F. 149 BO & 32 BW/12 hrs. CONT'D. PAGE 2.			

CO. LEA		POOL SAUNDERS		STATE N. M. KROENLEIN 172-61	
COMPANY James G. Brown & Assoc. - #1 - State "G" Elev 4240 SWD					
LOC 1980' FSL & 660' FEL Sec. 9, T. 14-S, R. 33-E 10,100' Penn.					
ACID OR SHOT		Casing Record		TOPS	
Perf: 4337-5480		3 5/8- 373- 200 5 1/2-4337- 775			
SPD. 5-7-61		COMP 6-5-61			
P. Salt Water Disposal Well					
GR	GOR	TP	CP	5480	
REMARKS					

CO. LEA		POOL SAUNDERS		STATE N. M. KROENLEIN 172-61	
REISSUE-CORRECTED LOCATION					
COMPANY James G. Brown & Assoc. - #1 - State "G" Elev 4240 SWD					
LOC 1955' FSL & 735' FEL (corrected) Sec. 9, T. 14-S, R. 33-E 10,100' Penn.					
ACID OR SHOT		Casing Record		TOPS	
Perf: 4337-5480		8 5/8- 373- 200 5 1/2-4337- 775			
SPD. 5-7-61		COMP 6-5-61			
P. Salt Water Disposal Well					
GR	GOR	TP	CP	5480	
REMARKS					

LEA, N.M. 9-14-33
James G. Brown & Assoc. - #1 - State "G"

K-172-61
PAGE 2.

DST 9820-45 op. 2 hrs., gas in 10 mins. rec. 7500' sul. wtr. & 50' H₂O GCM; ISIP 2880/30"; FP 940-2770; FSIP 2840/30".

DST 9924-36 op. 2 hrs. rec. 36' HECM w/trace of oil; ISIP 1320/30"; FP 20-20; FSIP 650/30".

DST 9929-41 op. 1 hr. 32 mins., gas in 5 mins.; oil 36 mins.; rev. out full string oil w/no wtr.; ISIP 3015/30"; FP 380-1145; FSIP 2705/1 hr.

DST 9943-52 op. 1 1/2 hr., gas in 3 mins.; oil in 1 hr.; F. to pits 30 mins. rev. out full string oil + 270' VSMC sul. wtr. below sub; ISIP 2750/30" FP 320-1030; FSIP 2120/30".

LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: TEXACO INC, 5 State of New Mexico "AT" OWWO Result: OIL DO

Loc'n: 14 1/2 mi SE/Caprock; 660' FSL, 660' FWL Sec 10-14S-33E

(Orig comp 8-10-62 thru Wolfc perfs 9892-9922', OTD 10,000' PB 9932')

Spud: 11-1-82; Comp: 11-14-82; Elev: 4227' Grd; TD: 10,000' Wolfc

Casing: 10-3/4" 370'/425 sx; 7-5/8" 4143'/700 sx; 2-7/8" 9998'/850 sx

Comp Info: A/3500 gals; Perf (Wolfc)@ 9791, 9794, 9797, 9849, 9852, 9859, 9863'-1 SPI, A/4000 gals; no new potential

Tops: NR

API No: 30-025-01126

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Date: 1-12-83 Card No.: 11 dh

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN

COMPANY Texaco Inc. - #4 - New Mexico "BG" State

NCT-1 ELEV. 4212 D

LOC. 1980' FNL & 660' FWL

Sec. 14, T. 14-S, R. 33-E

10,015' RT-Wolfcamp

PAY STIMULATION	CASING	TOPS
PERF: 9771-9954	11 3/4-385-225	Anhy. 1765
	8 5/8-4150-800	Salt 1800
	4 1/2-10015-1100	B.Salt 2565
		Yates 2651
		S.And 4117
		Glor 5565
		Tubb 6983
		Abo 7710
		Wolfc 9325
SPD. 3-14-67 COMP. 4-18-67		
I.P. F. 176 BO + 110 BW/24 hrs., 24/64" ch., natural		
GR. 41. GOR 1325 TP 100 CP pkr		TP 9771 (Wolfc)
Perf 2 SPI: 9771, 9785, 9809, 9814, 9831, 9887, 9894, 9900, 9905, 9954, no treatment.		TD 10,015
		PBD 10,000

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN

COMPANY Texaco Inc. - #3 - New Mexico "BG" State

NCT-1 ELEV. 4204 DF

LOC. 1980' FSL & 1651' FWL

Sec. 14, T. 14-S, R. 33-E

10,045' RT-Pann.

PAY STIMULATION	CASING	TOPS
PERF: 9754-9960	11 3/4-365-350	Anhy. 1682
	8 5/8-4150-900	Salt 1803
	4 1/2-10045-1100	B.Salt 2460
		Yates 2652
		S.And 4090
		Glor 5590
		Abo 7710
		Wolfc XX 9317
SPD. 11-21-66 COMP. 12-27-66		
I.P. Swb. 132 BOPD + 27 BW		
GR. 41.2 GOR 1250 TP CP		TP 9754 (Wolfc)
Core 9720-78 rec. 21' lime & sh.		TD 10,045
Core 9778-9840 rec. 62' lime w/ scat. shows oil thruout. CONT'D.		PBD 10,009

LEA, N.M.

T-14-14-33

PAGE 2.

Texaco Inc. - #3 - New Mexico "BG" State NCT-1

3 Core 9840-9900 rec. 60' lime w/scat. shows
of oil thruout.
"Core 9900-62 rec. 62' lime w/scat. shows oil
thruout.
5 Core 9962-10024 rec. 61' lime w/scat. shows
oil thruout.
4 Core 10024-10045 rec. 21' lime w/scat. shows
oil thruout.
Perf: 2 SPI/9754, 9762, 9768, 9795, 9814,
9819, 9822, 9862, 9866, 9869, 9874,
9882, 9941, 9947, 9960; 500 gal. acid/
9754-9960'.

CO. LEA

POO. SAUNDERS

STATE N.M. KROENLEIN 174-59

COMPANY Texas Co. - #2 - State "BG"

ELEV. 4206

LOC. 660' FSL & FWL

Sec. 14, T. 14-S, R. 33-E

10,000'

ACID OR SHOT	CASING RECORD	TOPS	
Perf. 28/9857-64	8 5/8-4120-2400	Yates	2654
Perf. 64/9882-98	5 1/2-9999-400	S.A.	4076
500 acid		Glor.	5626
Perf. 40/9910-20		Tubb	7012
		Abo	7732
		W.C.	9318

BPD. 2-18-59

COMP. 3-30-59

I. P. F. 240 BOPD, 24/64" ch.

GR. 41. BOR 1480 TP 160 CP pkr.

REMARKS

TP 9857
TO 10,000
PBO 9967

CONT'D. PAGE 2.

LEA, N.M. 14-14-33
Texas Co. - #2 - State "BG"

K-174-59

PAGE 2.

DST 1 9758-9820 op. 2 hrs. rec. 60' O&GCM, 75' oil; ISIP
3090/30"; FP 105-135; PSIP 3090/30".
DST 2 9820-9905 op. 2 hrs. oil 12 mins. to pits 18 mins.,
F. 84 BNO/1 1/2 hrs., rev. out 70 BO; ISIP 3705/30";
FP 925-1980; PSIP 3115/30".
DST 3 9905-10,000 op. 2 hrs. oil 15 mins. to pits 15 mins.
F. 75 BO/1 1/2 hr. rev. out 41 BO no wtr.; ISIP
3785/30"; FP 1090-2060; PSIP 3195/30".

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN174-

COMPANY Texaco Inc. - #7 - State of New Mexico "AT"
ELEV.LOC. 660'FNL & 1980'FEL
Sec. 15, T.14-S. R.33-E
10,000'RT-Penn.

PAY STIMULATION	CASING	TOPS
Perf: 9874-	10 3/4- 378- 400	Yates 2655
9884	7 5/8-4135- 700	S.And 4216
	4 1/2"L.-4007-	Glor 5535
	-9998-550	Tubb 5955
		Abo 7685
		W.C. 9291

SPD. 8-5-64 COMP. 9-18-64

I. P. Swb. 48 BOPD + 122 bbls. wtr.

GR. 41.3 GOR TSTM TP CP TP 9874(Penn.)
REMARKS: Perf 1 SPF: 9874-9884; 1000 TD 10,000
acid. PBD 9901

LEA COUNTY	NEW MEXICO	SAUNDERS FIELD
Well: TEXACO INC. 8 New Mexico "AT"State		Result: OIL DO
Loc'n: 20 mi SE/Caprock, SEC 15-14S-33E, 1980 FSL, 660 FWL Sec.		10,082

Spud: 9-24-82, Comp: 11-9-82, Elev: 4214' GL, TD: 10,100 (PMPV) PB:
Casing: 13 3/8" 480' / 700sx, 8 5/8" 4190' / 1500sx, 5 1/2" 10,100' /
2850sx, 2 7/8" 9770
Prod Zone: (Permo-PSLV) T/Pay 9813', Prod thru Perfs 9813-9983
IPF: 375 BOPD+ 128 BW, Gty 41.9, GOR 152, CP: kr, TP 190
Comp Info: Perf (Permo-PSLV) 9973-83 w/2 SPF, A/1000 gals, S/
15 BNO+8 BW, /4hrs, Perf (Permo-PSLV) @9910-9945 w/2 SPF, A/
2000 gals, Perf (Permo-PSLV) @9813-9873 w/2 SPF (OA) A/2000
gals, F/300 BW/10 hrs, F/72 BW/14 hrs, C/Hondo #3
Tops: (EL) Rustler 1693', Salt 1804', Base Salt 2488', Yates:
2650'
API No: 30-025-27912

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Date: 12-8-82

Card No.: 31 mja

Co. LEA POOL SAUNDERS- STATE N.M. KROENLEIN174-
PENN.COMPANY Texaco Inc. - #6 - State of New Mexico "AT"
ELEV.LOC. 1980'FNL & FWL
Sec. 15, T.14-S. R.33-E
10,000'RT

PAY STIMULATION	CASING	TOPS
Perf: 9866-	10 3/4- 365- 400	Yates 2650
9874	7 5/8-4129- 700	S.And. 4125
1000 acid	4 1/2"L.-3969-	Glor. 5540
	-10,000-900	Tubb 6955
		Abo 7685
		W.C. 9280
		Permo- Penn. 9720

SPD. 1-2-64 COMP. 2-8-64

I. P. F. 312 BO & 3 BW/24 hrs.,
19/64" ch.GR. 41.2 GOR 1410 TP 530 CP
REMARKS: Perf 1 SPF: 9866-9874; 1000
acid, F. 208 BO & 2 BW/16 hrs.,
19/64" ch.TP 9866
TD 10,000 L.
PBD 9965

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: TEXACO INC, 9 New MEXICO "AT" State OIL DO
 Loc'n: 21 mi SE/Caprock; 860' FSL, 660' FWL Sec 15-14S-33E Result: 10,065'
 Spud: 12-1-82; Comp: 1-18-83; Elev: 4214' Grd; TD: 10,100' Penn; PB:
 Casing: 13-3/8" 470'/700 sx; 8-5/8" 4185'/1600 sx; 5 1/2" 10,100' /
 2000 sx
 Prod Zone: (Permo-Penn), Prod thru Perfs 9806-10,015'
 IPF: 366 BOPD + 63 BW 32/64" ch, Grav 42, GOR 1572, CPpkr, TP95#
 Comp Info: Perf (Penn) 10,013-015' / 2SPF, A/3500 gals; S/85 BW
 Perf (Penn) 9898-9971' / 2 SPF, A/3500 gals; S/3 BNO & 9 BLW
 1 hr; Perf (Penn) 9806-61', A/2500 gals; C/Hondo
 Tops EL: Rustler 1700', Salt 1801', B/Salt 2485', Yates 2648'
 San Andres 4092', Glorieta 5572', Drinkard 6983', Abo 7720'
 Wolfc 9297', Penn 9750'
 API No: 30-025-23020



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 CORPORATION
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Date: 2-23-83 Card No.: 39 dh

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-59
 COMPANY Texas Co. - #3 - State "AT" ELEV. 4213

LOC. 660' FSL & FEL
 Sec. 15, T. 14-S, R. 33-E (corr.)
 10,000'

ACID OR SHOT	CASINO RECORD	Any. TOPS
Perf. 162/9748-9910	13 3/8- 364- 675	1658
500 acid	8 5/8- 4114- 3400	2646
	5 1/2- 9999- 350	4090
		5583
		7000
		7720
		9296

SPO. 4-7-59 COMP 5-28-59

I. P. F. 174 BO/24 hrs., 12/64" ch.

G. 44. GOR 1475 TP 150 CP pkr.
 REMARKS Perf.: 20/9748-53; 20/9756-61;
 40/9796-9806; 24/9850-56; 16/9870-74;
 48/9898-9910. CONT'D. PAGE 2.

TP 9748
 TD 10,000 dolo.
 POB 9998

LEA, N.M. 15-14-33
 Texas Co. - #3 - State "AT"

K-174-59
 PAGE 2.

DST 1 9750-99 op. 2 hrs. gas @ 2699 MCFG; oil in 18
 mins. flow 110 BO/ 1 1/2 hrs.; rev. out 44 BO;
 ISIP 2927/30"; FP 1400-2300; FSIP 2899/30".
 Core ① 9799-9825 rec. 26' undes.
 Core ② 9825-53 rec. 28' ls., seat. sh. part.
 Core ③ 9853-90 rec. dolo. & ls., bldg. oil.
 DST 2 9803-9902 op. 2 hrs. oil in 25 mins. to pits 5
 mins.; F. 30 BO/ 1 1/2" rev. out 36 BO; ISIP
 3655/30"; FP 685-1625; FSIP 2975/30".
 Core ④ 9902-53 rec. 51' dolo.
 Core ⑤ 9953-10000 rec. 46' dolo. sli. poro. & bldg. oil.
 DST 3 9897-10,000 op. 2 hrs. gas in 3 mins. @ 1790
 MCFG; oil in 20 mins. to pits 20 mins. F. 69 BO/
 1 1/2 hrs. thru 1" ch.; rev. out 41 BO no wtr.
 ISIP 3676/30"; FP 115-170; FSIP 170/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-59

COMPANY Texaco Inc. - #4 - St. of N. M. "AT" ELEV. 4210

LOC. 1980' FSL & 660' FEL
Sec. 15, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf.: 80/9927-47 16/9970-74 500 acid	10 3/4- 354- 400 7 5/8- 4131-1750 4 1/2L- 3977- -10000-1450	
SPD. 8-10-59 COMP 9-19-59		
I. P. P. 540 BO/24 hrs., 20/64" ch.		
GR 44. GOR 1460 TP 395 CP pkr.		TP 9927 TO 10,000 L. PSD 9995
REMARKS P. 270 BO/12 hrs.		
DST 9715-45 op. 1 1/2 hr. rev. out 116 BXW; gas TSTM. CONT'D. PAGE 2.		

LEA, N.M. 15-14-33
Texaco Inc. - #4 - St. of N. M. "AT"K-174-59
PAGE 2.DST 2 9850-9920 op. 1 1/2 hr. fail
DST 3 9910-10,000 op. 2 1/2 hr. P. 38 BO/1 hr.; rev. out
9 BO; FP 250-850; SIP 3955/30".

LEA COUNTY NEW MEXICO SAUNDER, S. FIELD

Well: GULF OIL CORP. 1 Lea "VF" State "OWWO" Result: OIL DO
Loc'n: 21 mi SE/Caprock; Sec 16-14S-33E; 330' FSL 330' FEL of Sec;
(Orig. Comp 5-7-81 thru (Permo-Penn) Perfs 9935-84', OTD
10,100; OWDD & Re-Comp 6-8-82 thru (Permo-Penn) Perfs 9935-
84', OTD 10,120', OPB: 10,043');
Spud: 9-2-82; Comp: 11-9-82; Elev: 4208' Grd; TD: 10,120' Penn; PB:
10,043'
Casing: 11-3/4" 412' / 400sx; 8-5/8" 4157' / 1500sx; 5-1/2" 10,100' /
400sx (pulled); 5-1/2" 10,120' / 1370sx; 2-3/8" 10,019'
Prod. Zone: (Permo-Penn) T/Pay 9847', Prod Perfs 9847-9984'
IPP: 155 BOPD + 55 BW, GOR 581-1, Grav 40.7
Comp Info; Perf (Permo-Penn) 9847-49', 9861-63', 9885-87' w/
4 SPF; A/3750 gals; C/NR
Tops: (EL) NR
API No: 30-025-27239

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: GULF OIL CORP, 2 Lea "VF" State Result: OIL DO
 Loc'n: 20 mi SE/Caprock; 330' FSL, 1650' FEL Sec 16-14S-33E

Cont'd from card 35:

Tops EL: Rustler 1703', Salt 2133', B/Salt 2470', Yates
 2655', Glorieta 5574', Tubb 7028', Abo 7767', Wolfc 8900'
 Cisco 9950'
 API No: 30-025-27935

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Date: 3-23-83 Card No.: 35-A dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: GULF OIL CORP, 2 Lea "VF" State Result: OIL DO
 Loc'n: 20 mi SE/Caprock; 330' FSL, 1650' FEL Sec 16-14S-33E

10,418'

Spud: 10-22-82; Comp: 2-22-83 Elev: 4239' KB; TD: 10,150' Cisco; PB:
 Casing: 11-3/4" 421' / 400 sx; 8-5/8" 4184' / 1500 sx; 5 1/2" 10,148' /
 775 sx; 2-3/8" 9766'

Prod Zone: (Permo-Penn), Prod thru Perfs 9840-9983'

IPP: 130 BOPD + 150 BW, Grav 40.7, GOR 1495

Comp Info: ranGRL, CCL logs; DST (Cisco) 9845-9995', op 1 hr
 5 mins, GTS 5 mins, rec 120' GCDF, 1320' GCO, 1320' FW

(Sampler rec 4.15 CFG + 400 cc oil (grav 42) + 400 cc wtr)
 ISIP 2808# / 1 hr, FP 1265-1265#, FSIP 2396# / 2 hrs, HP 5255-
 5255#, BHT 144 deg; DST (Cisco) 9998-10,150', op 1 hr 10 mins
 rec 150' GCM, 5750' FW (sampler rec 1500 cc wtr), ISIP 3492# / 1
 hr, FP 1757-2746#, FSIP 3169# / 2 hrs, HP 5394-5394#; BHT 146 deg
 Perf (Cisco) 9967-69, 9974-76, 9981-83' / 4 SPF, A/21,000 gals; S/
 92 BW w/SSG/9 hrs; S/62 BW/NS 8 hrs; Perf (Cisco) 9840-42,
 9860-62, 9873-75, 9889-91' / 2 SPF: A/1750 gals; Frac w/15,000
 gals & 2000# salt; Rig Rel 11-24-82; C/Gulf



Petroleum Information® Cont'd on card 35-A

CORPORATION
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Date: 3-23-83 Card No.: 35 dh

CG LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-62

COMPANY Texaco Inc. - #1 - State of New Mexico Elev 4231
 "BG" NCT-2

LOC 990' FNL & 988' FEL
 Sec. 16, T. 14-S, R. 33-E
 10,100' RT

ACID OR SHOT
 Perf: 9826-9944
 1250 acid

CASING RECORD
 10 3/4- 377- 300
 7 5/8- 4141- 300
 4 1/2L- 4032-
 -10100-500

S. And. TOPS 4058
 Glor. 5542
 Tubb 6990
 Abo 7723
 W.C. 9092

SPD 12-14-61 COMP 2-24-62

I. P. Swb. 181 BO & 106 BWPD

GR 41.00R 1175TP

CP

REMARKS: DST 9705-9825 op. 2 hrs., gas in 10,100
 12 mins., TSTM; rev. out 30' oil (Gr. 42);
 90' HO&GCM; FP 234-446; ISIP 2594/30";
 FSIP 1724/30". CONT'D. PAGE 2.

TP 9326
 10,100
 10,066

Hebbs
 Have File
 w/ logs

14S-33E; Sec 16
990' FNL 988' FFL

Lea County

(Saunders-
Wolfcamp)

Texaco, Inc. # 1-BG State NCT-2

OIL

Spud: 12-14-61; Comp: 2-21-62; Elev: 4242'DF; TD: 10,100';

PBTD: 10,066'

Casing: 10 3/4" 360'/450sx; 7 5/8" 4127'/800sx; 4 1/2" 6068'/400sx;
2 3/8" 9888'

Prod Zone: Perfs 9902-08', 9936-44', 9826-50', 9875-80', 9890-94'

IP (Swab): 136 bbls oil, 80 bbls wtr, 18 hrs, Grav 41, GOR 1175-1

Comp Data: 4/1250 gals; 250# naphth

DST, 9705-9825', open 2 hrs, rec 30' oil, 90' heavily O&G-C mud.

FP 25-49#, 30-min SIP 1608-1523#.

DST, 9840-9930', open 3 hrs, oil surf 55 min, flow 18 1/2 BO/2 hrs.

FP 717-1671#, 30-min SIP 3292-3695#.

DST, 9945-10,020', open 2 hrs, reversed out 800' heavily O&G-C

mud. FP 130-335#, 30-min SIP 2785-1775#.

DST, 10,015-100', open 2 1/2 hrs, reversed out 90' mud, 5000' salt

wtr. FP 1076-2004#, 30-min SIP 2362#.

Tops: San Andres 4059', Glorieta 5544', Tubb 6990', Abo 7765',
Wolfcamp 9092'. Pay @ 9826'. NEW MEXICO OIL LOG 4-17-62.

LEA, N.M. 16-14-33

K-174-62

PAGE 2.

Texaco Inc. - #1 - State of New Mexico "BQ" NCT-2

- 2 DST 9840-9930 op. 3 hrs., gas in 2 mins., mud in 40 min
oil in 55 mins. (F. 18 1/2 BNO/2 hrs. 5 mins.);
rev. out 32 BO & rec. 60' oil below sub; FP 717-
671; ISIP 3292/1 hr.; FSIP 3695/30".
- 3 DST 9945-10020 op. 2 hrs., gas in 8 mins. rev. out
800' HO&GCM; FP 130-335; ISIP 2785/30"; FSIP 1775/30
- 4 DST 10015-10100 op. 2 1/2 hrs. rev. out 90' mud &
5000'SW; ISIP 3293/30"; FP 1076-2004; FSIP 2362/30"
- ① Perf: 16/9936-44; 250 acid; swb. 34 bbls. LW & AW + 34
bbls. fluid (25% wtr.)/13 hrs.
- ② Perf: 48/9826-9850; 10/9875-80; 8/9890-94; 12/9902-08;
1000 acid; swb. & F. load; flow 70 BNO/6 hrs. &
died.

LEA COUNTY	NEW MEXICO	SAUNDERS FIELD
Well: MWJ PRODUCING CO.	1 Saunders "16" State	Result: OIL DO
Loc'n: 20 mi SE/Caprock, 1980 FSL, 669 FEL of Sec 16 - 14S-33E		
Spud: 9-19-80; Comp: 12-8-80; Elev: 4231' Grd; TD: 10,055 (Pennsylvan- ian) PB: 10,011'		
Casing: 13-3/8" 415'/400sx; 8-5/8" 4120'/1800sx, 5-1/2" 10,055'/300sx		
Prod Zone: (Pennsylvanian) T/Pay 9920', Prod thru Perfs 9920-62'		
IPF: 85 BOPD+30 BW, Grav(NR) CP :kr; TP 50, GOR 1000		
Comp Info: DST "Tight", Perf(Upper Pennsylvanian 9920-30', 9935-37' 9941-45', 9953-62' (OA), Treatment(NR), C/Tri-Service, Will re-issu if additional information becomes available		
Tops: (NR)		
API No: 30-025-26895		

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*lobbs
Have logs
Have file*



Petroleum Information

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Date: 12-17-80 Card No: 28 1p

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: GULF OIL CORP. 1 LEA "VF" State OWWO Result: OIL DO
 Loc'n: 21 mi SE/Caprock, Sec 16-14S-33E, 330 FSL, 330 FEL Sec (Orig.
 Cmp. 5-7-81 (Permo-PSLV) Perfs 9935-84, OTD 10,100)

Spud: 4-21-82, Comp: 6-8-82, Elev: 4208' GL, TD: 10,120 (PSLV) PB: 10,043
 Casing: 11 3/4" 412' / 400sx, 8 5/8" 4157' / 1500sx, 5 1/2" 10,100' /
 400sx, 5 1/2" 10,120' / 1370sx, 2 7/8" 10,019
 Prod Zone: (Permo-PSLV) T/Pay 9935', Prod thru Perfs 9935-84'
 IPP: 125 BOPD + 50 BW, Gty 40.6, GOR 8801
 Comp Info: Ran TMPL logs; Perf (Permo PSLV) 9935-44, 9949-53
 9962-65, 9976-84 w/2 SPF, A/250 gals, C/Cactus #69
 Tops: (EL) NR
 API No: 30-025-27239



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

Date: 7-14-82

Card No.: 39 mja

LEA COUNTY NEW MEXICO BAUM FIELD
 Well: MWJ PROD. CO. 1 Baum "17-A" State Result: D&A D
 Loc'n: 20 mi S/Caprock; Sec 17-14S-33E; 1980' FSL 1980' FWL of Sec;

Spud: 7-9-82; Comp: 1-14-83; Elev: 4251' Grd; 4261' KB; TD: 10,250'
 Penn;
 Casing: 13-3/8" 386' / 425sx; 8-5/8" 4149' / 1700sx; 5 1/2" 10,250' / 300sx;
 Comp Info: Ran ACSL, CBND, GRL; Perf (Penn) 9906-10', 9924-
 28', 9933-35', 9940-45', 9956-58', 10,008-010', 10,018-
 022', A/3000 gals; C/Tri-Service #8.
 Tops: (EL) Salt 2615', Queen 3520', San Andres 4090', Glorieta
 5570', Tubb 7115', Abo 7750', Wolfcamp 9180', Cisco 9860'.
 API No: 30-025-27883

Replaces Card 23 dated 2-9-83 to show results fr Temp Comp;



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

Date: 3-9-83

Card No.: 51 bc

LEA COUNTY NEW MEXICO BAUM FIELD
 Well: MWJ PRODUCING CO, 1 Baum "17-B" State Result: OIL DO
 Loc'n: 21 mi SE/Caprock; 660' FSL, 660' FEL Sec 17-14S-33E

Spud: 10-30-83; Comp: 2-19-83; Elev: 4229' Grd; TD: 10,200' Cisco; PB: 10,127'
 Casing: 13-3/8" 408' / 425 sx; 8-5/8" 4178' / 1500 sx; 5 1/2" 10,200' /
 450 sx; 2-3/8" 10,003'
 Prod Zone: (U/Penn), Prod thru Perfs 9962-78'
 IPF: 240 BOPD + 10 BW 22/ 64" ch, Grav 39.2, GOR 1500, TP 250#
 Comp Info: Perf (Cisco) 9962-78' / 2 SPF, A/1000 gals; flwd 240
 BO & 10 BW/24 hrs; C/Tri Service #8
 Tops EL: Yated 2625', Queen 3540', San Andres 4090', Glorieta
 5570', Tubb 7110', Abo 7735', Wolfc 9180', Penn 9810', Cisco
 9950'
 API No: 30-025-28000



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

Date: 3-16-83

Card No.: 32 dh

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-51
 COMPANY Atlantic - #1-"U" - State ELEV. 4219
 LOG 660' FSL & FEL of
 Sec. 21, T.14-S, R.33-E

ACID OR SHOT	CASING RECORD	TOPS
	9 5/8-4108-3500	T. A. 1520 270 S. A. 4076 155 W. C. 9140 -4909
SPO. 10-5-51	COMP. 12-21-51	
I. P. P & A		
DR. GOR TP CP		TO 10028 L.
REMARKS	CONT'D. PAGE 2.	

LEA, NEW MEXICO. 21-14-33
 Atlantic - #1-"U" - State.

K-174-51
 PAGE 2.

- ✓ DST 9190-9286 (W.C.), op. 1 hr., blow, rec. 40' drlg. mud; NS.
 - ✓ Core 9788-9838, rec. 50' L.
 - ~ DST 9762-9838, op. 1 hr., rec. 4400' sul. wtr., SO&GC; FP 2000; SI 3000.
 - ~ Core 9838-88, rec. 50' L.
 - ~ DST 9822-88, op. 1 hr., F. 40-50 BFPH, 20% oil, 80% sul. wtr.; FP 1800; SI 2620.
 - ✓ DST 9855-88, op. 1 hr., gas 8 min., sul. wtr. 33 mins., oil 41 mins., F. est. 25 BFPH, 90% SW, 10% oil.
 - ~ Core 9888-9928, rec. 40': 14' brn. L., porous, 17' dense lime, 9' lime, porous, bldg. oil & wtr.
 - ✓ Core 9928-78, rec. 50': 9' lime, 5' lime & sh., 10' shale, 20' lime & shale partings, 6' lime, bldg. oil & sul. wtr.
- CONT'D. PAGE 3.

LEA, NEW MEXICO. 21-14-33
 Atlantic - #1-"U" - State.

K-174-51
 PAGE 3.

- ✓ DST 9910-9928, op. 1 hr., gas 4 mins., rec. 230' oil & sul. WCM.
- ✓ DST 9921-78, 1000' WB, op. 1 hr., rec. gas 35 mins., 700' O&GCWB, 570' sul. WO&GCWB; FP 1800; SI 2920.
- ✓ Core 9972-10028, rec. 50' wtr., scat. poro., sul. odor.
- ✓ DST 9978-10028, 1000' WB, op. 45 mins., rec. 15' SGCM; ran Schj.
- ✓ DST 9883-9916, op. 2 hrs., rec. 500' WB, 450' O&GCM.
- ✓ DST 9811-9916, op. 2 hrs., 12 mins., F. 19 BF/1 hr., 4% oil, 15% BSW.

CO. LEA POOL UNDESIGNATED STATE N.M. KROENLEIN 174-61		
O.M.A.O.		
COMPANY Carl J. Westlund, Inc. - #1 - Hondo- ELEV. 4219		
Fmly. The Atlantic Reg. Co.:		
LOC. 680' FSL & FEL	-#1-"U" - State, SEE:	State
Sec. 21, T. 14-S, R. 33-E	CARD #171-51 for	
10,000' Permo-Penn.	orig.drlg.)	
ACID OR SHOT	CASING RECORD	TOPS
Perf: 9840-9939	old 9 5/8-4103-3500	Permo-Penn. 9840
3000 acid	4 1/2-10025- 200	
B.P.D. 1-14-61 COMP 2-17-61		<i>check given Mcgrath Smith 1963 4-11-66 Have File</i>
I. P. P. 22.22 BOPD		
GR. - GOR - TP CP		
REMARKS OTD 10,028'.		
CONT'D. PAGE 2.		

LEA, N.M. 21-14-33	K-174-61
Carl J. Westlund, Inc. - #1 - Hondo-State.	PAGE 2.
PB 10,036'	
Perf: 56/9925-39; 32/9882-98; 500 MA; retr. w/2000 acid/ 9832-9939; swb. 15 bbls. fluid PH (no breakdown); set BP 9870'	
Perf: 48/9840-52; 500 acid; F. 5 BOPH; F. 150 BNO/24 hrs. & died; set BP/9870'.	

	LEA COUNTY	NEW MEXICO	SAUNDERS FIELD
Well:	YATES PETROLEUM CORP, 1 Swan "VB"		Result: OIL DO
Loc'n:	22 mi SE/Caprock; 1980' FSL, 660' FEL Sec 21-14S-33E		10,090'
	Spud: 8-24-82; Comp: 11-3-82; Elev: 4212' Grd; TD: 10,324' Cany; PB:		
	Casing: 13-3/8" 450'/450 sx; 8-5/8" 4200'/2205 sx; 5 1/2" 10,324' /		
	1100 sx; 2-7/8" 9851'		
	Prod Zone: (Permo-Penn), Prod thru Perfs 9872-9948'		
	IPP: 140 BOPD + 320 BW, Grav NR, GOR 679		
	Comp Info: ran CNL, FDC, DILL Logs; Perf (Canyon) 18/10,169-		
	239', A/3000 gals; swbd wtr w/NS; sqzd 75 sx; Perf (Canyon)		
	12/10,107-137', A/2000 gals; swbd wtr w/NS; PB 10,090';		
	Perf (Cisco) 9872-9948'; A/500 gals; C/Ard #6		
	Tops EL: Rustler 1696', Salt 2550', Yates 3432', SanAnd 4206'		
	Glorieta 5562', Tubb 6996', Abo 7678', Wolfc 9094', Cisco		
	9860', Canyon 10,100'		
	API No: 30-025-27914		

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Re-Issued for EL/Tops; replaces card 25 dated 12-22-



Petroleum Information Corporation
A Subsidiary of A.C. Neilson Company

Date: 2-2-83

Card No.: 66 dh

Co. LEA POOL SAUNDERS STATE KROENKEIN 172-62
COMPANY Cosden Pet. Corp. - #1 - State "E" ELEV 4232 DF
LOC. 660' PSL & FWL *Abb NO File* 12' Kelly?
Sec. 21, T.14-S, R. 33-E 1065
~~10,200' RT - Penn.~~

ACID OR SHOT	CASING RECORD	TOPS	Gravel
Perf: 9925-10,000 26,500 acid	13 3/8- 310- 325 8 5/8- 4179-1600 5 1/2- 10042- 300	Anhy. Yates Glor. Tubb Abo W.C. Saunders	1695 2549 2655 1589 5670 -1426 6997 -2752 7780 -3534 9318 -5074 9855 -5611
SPD. 1-26-62 COMP 5-14-62			
I. P. P. 20 BO & 95 BW/24 hrs.			
GR. GOR TP CP			
REMARKS DST 9380-9915 op. 1 hr. 15 mins. gas in 8 mins. rec. 250' oil & 250' HMC0; FP 245-285; ISIP 3540/30"; CONT'D. PAGE 2.		TP 9925 TO 10,042 PBO	

LEA, N.M. 21-14-33 K-172-62
Cosden Pet. Corp. - #1 - State "E" PAGE 2.

FSIP 3170/30".
~ DST 9915-9970 op. 2 hrs. 5 mins., gas in 15 mins., est.
195,000 CFG; rec. 1760' oil & 40' wtr.; FP 130-
448; ISIP 3133/30"; FSIP 1594/30".
~ DST 9970-10030 misrun
+ DST 9962-10030 op. 2 hrs. rec. 100' DM & 1950' salty
sul. wtr.; no FP; ISIP 3690/30"; FSIP 3630/30".
Perf: 20/9925-9935, 4/9950-9952, 16/9972-80; 5000 acid;
swb. 140 bbls. fluid/9 hrs. (45 BO & 95 BW); reA/10,000
swb. 210 bbls. fluid/12 hrs. (24 BO & 186 BAW); PB 9910'
Swb. 84 BO & 146 BW/16 hrs.; BP/9910'
~ Perf: 12/9836-42, 12/9856-62, 8/9866-70, 16/9873-81,
16/9887-95; 2000 acid in 3 stages; swb. 256 BAW & form.
wtr. & 22 BO/24 hrs./9836-9842'; swb. 310 bbls. wtr. &
trace of oil/24 hrs. 9856-9881'; swb. 213 BW/6 1/2 hrs.,
9887-9895'; resqz. perfs 9836-95' w/125 sx; reA. 11,000
~ Perf: 24/9994-10,000; 500 acid; P. 14 BO & 80 BW/24 hrs.;
P. 10 BO & 95 BW/24 hrs.

LEA COUNTY NEW MEXICO UNDESIGNATED FLD
Well: YATES PETROLEUM CORP, 2 Woodpecker "SY" State Result: SUS OPR SUS
Loc'n: 22 mi SE/ Caprock; 1980' FNL, 660' FEL Sec 21-14S-33E

Spud: 5-12-82; Comp: 8-9-82; Elev: 4213' Grd; TD: 10,100' Penn
Casing: 13-3/8" 450'/550 sx; 8-5/8" 4200'/500 sx; 5 1/2" 10,100'/
750 sx
Comp Info: C/Ard #5
Tops: NR
API No: 30-025-27811

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LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: YATES PETROLEUM CORP, 1 Woodpecker "SY" State Result: OIL DO
 Loc'n: 22 mi SE/Caprock; 660' FNL, 660' FEL Sec 21-14S- 33E 10,079'

Spud: 2-21-82; Comp: 4-19-82; Elev: 4211' Grd; TD: 10,170' Cisco; PB:
 Casing: 13-3/8" 445' / 450 sx; 8-5/8" 42-0' / 2300sx; 5 1/2" 10,170' /
 940'; 2-7/8" 9873'

Prod Zone: (Permo-Penn), T/Pay 9905', Prod thru Perfs 9950-32'
 IPP: 58 BOPD + 7 BW, Grav 41.5, GOR 586
 Comp Info: ranCNL, FDC, DILL Logs; Perf (Permo-Penn) 9905-12'
 A/2500 gals; C/Tom Brown #25
 Tops EL: San Andres 4150', Glorieta 5566', Tubb 7004', Abo
 7652', Wolfc 9106', Cisco 9985'
 API No: 30-025-27712



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Date: 5-19-82

Card No.: 28 dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: YATES PET. CORP. 1 Woodpecker "SY" State "OWWO" Result: OIL DO
 Loc'n: 22 mi SE/Caprock; Sec 21-14S-33E; 660' FNL 660' FEL of Sec;
 (Orig. Comp 4-19-82 thru (Permo-Penn) Perfs 9905-32', OTD
 10,170', OPB: 10,079');

Spud: 6-10-82; Comp: 6-21-82; Elev: 4211' Grd; TD: 10,170' Cisco; PB:
 10,079'

Casing: 20" 40' / 15sx; 13-3/8" 445' / 450sx; 8-5/8" 4200' / 2300sx; 5-1/2"
 10,170' / 940sx;

Comp Info: Perf (Penn) 9824-9933', A/31,000 gals; No New Pot'l;
 Tops: NR
 API No: 30-025-27712

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Date: 8-25-82

Card No.: 21 bc

LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: YATES PETROLEUM CORP, 2 Woodpecker "SY" State Result: OIL DO
 Loc'n: 22 mi SE/Caprock; 1980' FNL, 660' FEL Sec 21-14S-33E 10,046'

Spud: 5-12-82; Comp: 8-9-82; Elev: 4213' Grd; TD: 10,100' Penn; PB:
 Casing: 13-3/8" 450' / 550 sx; 8-5/8" 4200' / 500 sx; 5 1/2" 10,100' /
 750 sx; 2-7/8" 9737'

Prod Zone: (Permo-Penn), T/Pay 9790', Prod thru Perfs 9790-
 99 63 1/2'

IPP: 284 BOPD + 120 BW, Grav 41, GOR 394
 Comp Info: Perf (Bough) 9790-9963 1/2', A/8500 gals; C/Ard #5
 Tops EL: Yates 2660', Queen 3429', San And 4136', Glorieta
 5580', Abo 7724', Wolfc Bough "A" 9788', Bough "B" 9845'
 Bough "C" 9886', Bough "D" 9943'
 API No: 30-025-27811

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Replaces card 58 dated 8-18-82 for result: of
 suspended completion and correct field from
 Undesignated



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Date: 9-8-82

Card No.: 51 dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: YATES PETROLEUM CORP, 3 Woodpecker "SY" State Result: OIL DO
 Loc'n: 21 mi SE/Caprock; 660' FNL, 1800' FEL Sec 21-14S-33E 10,071'
 Spud: 7-5-82; Comp: 8-26-82; Elev: 4213' Grd; TD: 10,150' Penn; PB:
 Casing: 13-3/8" 452'/450 sx; 8-5/8" 4200'/1815 sx; 5 1/2" 10,150' /
 700 sx; 2-7/8" 9880'
 Prod Zone: (Permo-Penn), T/Pay 9816', Prod thru Perfs 9816-9942'
 IPP: 428 BOPD + 180 BW, Grav 41, GOR 1401
 Comp Info: Perf (U/Penn) 9816-9942', A/5000 gals; C/Collier
 #11
 Tops EL: Rustler 1674', Yates 2652', Queen 3421', San And
 4089', Glorieta 5588', Tubb 7012', Drinkard 7123', Abo 7743'
 Wolfc 8134', Cisco 9978'
 API No: 30-025-27874

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Date: 9-22-82 Card No.: 7 dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: YATES PETROLEUM CORP, 4 Woodpecker "SY" State Result: OIL DO
 Loc'n: 22 mi SE/Caprock; 660' FNL, 1980' FWL Sec 21-14S-33E PB: 10,329'
 Spud: 9-30-82; Comp: 1-9-83; Elev: 4219' Grd; TD: 10,425' Penn
 Casing: 13-3/8" 450'/450 sx; 8-5/8" 4193'/2250 sx; 5 1/2"
 10,425'/1000 sx; 2-7/8" 10,114'
 Prod Zone: (Permo-Penn), Prod thru Perfs 9775-10,061'
 IPP: 281 BOPD + 45 BW, Grav 42.7, GOR 623
 Comp Info: Perf (Cisco) 20/9973-10,017, 10,044-061', A/
 9000 gals; Perf (Permo-Penn) 15/9891-9940', A/2500 gals
 Perf (Permo-Penn) 11/9775-9816', A/2500 gals; C/Ard #6
 Tops EL: Rustler 1702', Yates 2650', Queen 3420', San And
 4023', Tubb 7001', Abo 7748', Wolfc 9112', Cisco 9988'
 API No: 30-025-27942

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Replaces card 35 dated 1-19-83 for results of
 suspended completion



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Date: 2-9-83 Card No.: 80 dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: YATES PETROLEUM CORP, 5 Woodpecker "SY" State Result: OIL DO
 Loc'n: 21 mi SE/Caprock; 1980' FNL, 1980' FEL Sec 21-14S-33E PB: 9976'
 Spud: 10-9-82; Comp: 1-10-83; Elev: 4212' Grd; TD: 10,160' Penn;
 Casing: 13-3/8" 450'/450 sx; 8-5/8" 4185'/1350 sx; 5 1/2"
 10,071'/1300 sx; 2-7/8" 9830'
 Prod Zone: (Permo-Penn), Prod thru Perfs 9886-9962'
 IPP: 290 BOPD + 115 BW, Grav 42.7, GOR 914
 Comp Info: Perf (Perm-Penn) 9941-42, 9949-53', 9955-62' /
 1 SPF, A/3000 gals; Perf (Permo-Penn) 9886-99, 9903-05'
 w/1 SPF, A/3500 gals; C/Landis #3
 Tops EL: Rustler 1660', B/Salt 2533', Yates 2648', Queen
 3422', San And 4088', Tubb 7013', Abo 7760', Wolfc 9101;
 Cisco 9982'
 API No: 30-025-27963

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Date: 2-9-83 Card No.: 24 dh

LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: YATES PET. CORP. 1 Swan "VB" Result: OIL DO

Loc'n: 22 mi SE/Caprock; Sec 21-14S-33E; 1980' FSL 660' FEL of Sec;

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Spud: 8-24-82; Comp: 11-3-82; Elev: 4212' Grd; TD: 10,324' PMPV; PB: 10,090'

Casing: 13-3/8" 450' / 450sx; 8-5/8" 4200' / 2205sx; 5-1/2" 10,324' / 1100sx; 2-7/8" 9851'

Prod. Zone: (Permo-Penn) T/Pay 9872', Prod Perfs 9872-9948'

IPP: 140 BOPD + 32 BW, GOR 679-1, Grav NR

Comp Info: Perf (Bough) 10,169-239' w/18 shots; A/3000 gals; S/SW w/NS; Sqzd 10,169-239' w/75 sx; Perf (Bough) 10,107-137' w/12 shots; A/2000 gals; S/wtr w/NS; PB to 10,090', Perf (Bough) 9872-9948', Treatment NA; C/Ard Drlg. #6.

Tops: NR

API No: 30-025-27914



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Date: 12-22-82 Card No: 25 bc

Co LEA SAUNDERS STATE N.M. 174-57

COMPAN Texas Co. - #3 - St. N. M. AN 4215 DF

LOC 1980' FSL & 1978' FWL
Sec. 22 T. 14-S. R. 33-E
9900'

ACID TEST SHOT	LEADING WEIGHT	Yates	2638
Perf: 40/9862-72	13 - 340-400	S.A.	4058
9862-86 sqz	7 - 4179-2200	Glor.	5605
9810-18 sqz	5 - 9897-400	Tubb	7016
9772-82 prod.		Abo.	7747
		W.C.	9322

980 10-18-57 12-18-57

F. 148 BOPD / 20 BSW; 11/64" TC

G. 48 GOR 1220 TD 75

REMARKS 1980 5500 BO
156000 BO Cum.

9772
9897 L
9790

CON'T. PAGE 2

LEA, N.M. 22-14-33
Texas Co. - #3 - St. N. M. AN.

K-174-57
PAGE 2.

DST 9760-9806 op. 3 1/2 hr., gas 7 mins. @ 179 MCFG; fluid 2 hrs.; to pits 1 1/2 hr.; flow 20 BO & 80 BXW/1 1/2 hrs., Gr. 38.3; rev. out 150' fluid; FP 490-2930; SIP 3170/30".

DST 9810-9855, op. 3 hrs, 5 min, rec. 62' GCM w/SSO FP 60, SIP 4740, 30 min.

DST 9855-97, op. 3 hrs, GS/10 min, rec. 1040' O, 60' sul. wtr, FP 110-250, SIP 1780, 30 min

TD 9897 L., POF; test swb. dry; reA/3696; swb. 3 BO/24 hrs.; swb. dry

rePerf. 46/9862-86; pkr. 9687; swb. 104 BW/55 hrs. PB 9790; test control; flow swb. wtr. & swb. dry; ret. @ 9842; sqz. perf 9862-86 w/50 sx

Perf. 32/9810-18; A-500 swb. wtr.; A-1000 rec. wtr. & dry; ret. @ 9790'; sqz. perfs w/40/9810-18

Perf. 40/9772-82; swb. 53 BO & 3 BW/10 hrs.

LEA POOL SAUNDERS STATE N.M. ARIZONA 174-58

COMPANY The Texas Co. - #4 - St. N.M. "AN" ELEV 4213 DF

LOC. 660' FSL & FEL
Sec. 22, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
1000 acid	13 - 363-350	Yates 2665
Perf. 120/9730-60		S.A. 4220
Perf. 104/9790-9816	8 - 4150-2200	Glor. 5620
Perf. 80/9848-68	5 - 10000-400	Tubb 7030
Perf. 96-9888-9912		Abo 7755
		W.C. 9338

SPO 5-14-58 COMP 6-26-58

I. P. P. 416 BO/24 hrs.; 20/64" ch.

GR 42.3 GOR 1385 IP 760 CP -

REMARKS

9730
10,000 L.
9999

CONT'D. PAGE 2.

LEA, N.M. 22-14-33 K-174-58
Texas Co. - #4 - St. N. M. "AN". PAGE 2.

DST 9730-9830 op. 2 hrs., 2000' WB; gas 55 mins., rec. GCWB, 720' HO&GCM & 4590' oil; FP 1070-1800; SIP 2760/30".

DST 9829-85 1900' WB op. 2 hrs., WB 12 mins.; mud 20 mins. oil 25 mins.; flow 55 BO/1 hr. 35 mins.; rev. out 9 BO; FP 1480-2410; SIP 2010/30".

DST 9885-10,000 1980' WB, op. 2 hrs. 15 mins.; WB 30 mins.; oil 1 hr. 15 mins.; flow 51 BO/1 hr.; rev. out 21 BO; rec. 90' oil below sub; FP 1190-1590; SIP 3185/30".

LEA POOL SAUNDERS STATE N.M. ARIZONA 174-58

COMPANY Texas Co. - #5 - St. N. M. "AN" ELEV 4213 DF

LOC. 1980' FSL & 660' FEL
Sec. 22, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 40/9930-40	13 3/8- 364-450	W.C. 9340
11,000 acid	8 5/8-4169-2400	Glor. 5613
	5 1/2-10000-400	Tubb 7022
		Abo 7745
		W.C. 9340

SPO 8-19-58 COMP 11-19-58

I. P. P. 58 BO + 80 BWPD

GR 43.5 GOR 876 TP - CP

REMARKS

TP 9741
TO 10,000 L.
PRO 9998

CONT'D. PAGE 2.

LEA, N.M. 22-14-33
The Texas Co. - #5 - St. N.M. "AN"

N-174-50
PAGE 2

- DST 9750-9845, op. 4 hrs, GS/10 min, gge. 632 MCF, rec 1080' O&GCM, NW, FP 220-440, SIP 2180/30"
- DST 9845-85, op. 2 hrs, rec. 105' M, NS, FP 90-90, SIP 1280/30" PB 9989'
- DST 9885-10,000 op. 2 hrs., gas 8 mins., gge. 16 MCFD; rec. 800' GCM w/SSO; 25' oil, 5' AW; FP 145-380; SIP 1550/30".
- Perf. 40/9930-40; 500 acid; swb. 39 bbls. LO&AW/10 hrs., swb. dry; reA/2000; swb. 40 bbls. LO & 40 BAW + 51 bbls. NO/16 hrs.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-58

COMPANY Texas Co. - #6 - St. N. M. "AN" ELEV. 4213 DP

LOC. 660' FSL & 1976' FEL
Sec. 22, T.14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 96/9856-80	13 3/8- 365- 400	Yates 2645
500 acid	8 5/8-4141-2400	S. And. 4138
reA/2000	5 1/2-10000- 400	Tubb 7022
Perf. 264/9756-9822		Abo 7744
wash w/500 acid		W.C. 9336

SFD. 10-24-58 COMP 12-10-58

P. F. 322 BOPD + 20 BW; 20/64" ch.

GR. 43. GOR 1950 TP 475 CP pkr.

REMARKS

TP 9574
TD 10,000
PSD 9916

CONT'D. PAGE 2.

LEA, N.M. 22-14-33
Texas Co. - #6 - St. N. M. "AN"

K-174-58
PAGE 2.

- DST 9720-9825 1700' WB op. 3 1/2 hrs. gas 40 mins., WB 45 mins., mud 1 hr., oil 1 1/2 hr. F. 70 BO + 20% wtr./2 hrs.; gas @ 382 MCFD; rev. out 37 bbls. fluid, oil 20%; FP 1720-2240; SIP 3000/30"
- DST 9825-90 2000' WB op. 2 hrs. gas 30 mins. rec. 90' mud, 7300' oil; FP 960-1110; SIP 1110/30".
- DST 9890-10,000 op. 2 hrs. gas 1 hr. rec. 1000' O&GCM, 10' oil, 5' XW; FP 1030-1370; SIP 1710/30".

Co. LEA POOL SAUNDERS STATE N.M. 174-59

COMPANY Texas Co. - #7 - State of N.M. "AN" ELEV. 4213

Loc. 660' PNL & FEL
Sec. 22, 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 10 1/4 / 9858-84	13 3/8 - 370-400	Yates 2647
500 acid	8 5/8 - 4117-2200	S.A. 4070
	5 1/2 - 10000-400	Glor. 5594
		Tubb 7013
		Abo 7710
		W.C. 9316

SPD. 12-28-58 COMP 2-8-59

I. P. F. 185 BOPD, 14/64" ch.

G. 40 GOR 1400 TP 700 CP pkr.

REMARKS

TP 9858
10,000
PRD 9960

CONT'D. PAGE 2.

LEA, N.M. 22-14-33
Texas Co. - #7 - State of N.M. "AN".K-174-59
PAGE 2.

- DST 9735-9822 1000' WB op. 2 1/2 hrs. gas 43 mins. @ 1690 MCFG; WB 1 hr. oil 1 hr. 15 mins. F. 102 bbls. fluid/1 hr. 4 mins. rev. out & rec. 63 bbls. fluid, FP 1632-2763; SIP 3678/30".
- DST 9825-9900 op. 1 1/2 hrs. gas 5 mins. @ 2388 MCFG mud 8 mins. oil 17 mins. F. 95 BO/1 hr. 13 mins.; rev. out & rec. 33 BO; FP 1210-2070; SIP 3040/30".
- DST 9915-10,000 op. 2 hrs. gas 15 mins., TSTM; rec. 500' O&GCM; 90' oil; FP 135-215; SIP 2682-1308/30".

LEA COUNTY NEW MEXICO SAUNDERS FIELD

Well: TEXACO INC, 2 State New Mexico "AN" OWWO Result: OIL DO

Loc'n: 22 mi S-SE/Caprock; 1980' FSL, 1980' FEL Sec 22-14S-33E;
(Orig #2 State "AN" comp 3-16-53 thru Permo-Penn Perfs 9876-83, OTD 10,050', PB 10,047')

PB: 10,047'

Spud: 11-1-79; Comp: 11-15-79; Elev: 4215' DF; TD: 10,050' Penn

Casing: 13-3/8" 350' / 375' ex; 8-5/8" 4162' / 2500' ex; 5 1/2" 10,049' / 450'

Prod Zone: (Permo-Penn), T/Pay 9178', Prodthru Perfs 9178-9883'

IPP: No new potential

Comp Info: Perf (Permo-Penn) 9786-90, 9798-9804, 9820-25

9835-38' / 3 SPF, A/3000 gals; Perf (Perm-Penn) @ 9178, 9181

9184, 9187, 9492, 9497, 9507, 9510' / 2 SPI, A/3000 gals; A/7000 gals

Tops: NR

API No: 30-025-01137

LEA, NEW MEXICO. 22-14-33
Texas Co. - #2 - State of N.M. "AN"

K-174-53
PAGE 2.

1 DST 9100-9170 op. 1 hr., rec. 25' mud; NS.
2 DST 9230-9594 op. 1 hr., rec. 268' mud; NS; PP
3 DST 9748-9805 op. 3 hrs., rec. gas 3 mins.,
mud 13 mins., oil 1 hr., F. 36 BF/2 hrs.,
cut 10% oil, 90% wtr.; PP 3480; SI 3585.
4 DST 9835-9860 op. 3 hrs., gas 40 mins., rec.
450' mud, & 824' OMOCXW, 2750' GCXW;
PP 1725; SI 3210.
5 DST 9872-9900 op. 2 hrs., 50 mins., gas 4 mins.,
F. 50 mins., F. 27 BF/2 hrs., 423 wtr.;
58% oil; PP 2700; SI 3040.
6 DST 9900-9925 op. 1 hr., 15 mins., rec. 30' mud.
7 DST 9920-9945 op. 2 hrs., 40 mins., gas 11
mins., rec. 300' mud, 850' / 860' XW; PP
3590; SI 3950.

CONT'D. PAGE 3.

LEA, NEW MEXICO. 22-14-33
Texas Co. - #2 - State of N.M. "AN".

K-174-53
PAGE 3.

4 DST 9990-10,050 op. 2 hrs., rec. 100' mud; NS.
PP 160; SI 1510.
perf. 28/9876-9883; 2" @ 10044; Pkr. 9737
Swb. 132 BF/14 hrs. 65% wtr. 35% oil.
Swb. & F. 90 BO / 144 BBSW/24 hrs.

LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-53
COMPANY Texas Co. - #2 - State of N.M. "AN" Elev. 4215
Loc. 1980' FSL & FEL of
Sec. 22, T. 14, R. 33

ASID OR SHOT	CASING RECORD	TIME
	13 3/8- 35- 375	S.A. 4065
	0 5/8-4162-2500	Qlor. 5630
	5 1/2-10049- 450	Tubb 7060
	2 -10044	Abo 7785
		W.C. 9130

CRD 12-24-53 CORR. 3-16-53

I. P. F. 54 BO / 81 BW/24 hrs.

GR. 42 COR TP CP
REMARKS CONT'D. PAGE 2.

TP 9876
ID 10,050 L.
CRD 10,047

Co. LEA - POOL NEW DISCOVER STATE N. MEX. KROENLEIN 174-51

COMPANY Texas Co. - #1-"AN" - State

Elev. 4213

LOG. 660' FSL & 1980' FWL
Sec. 22, T. 14-S, R. 33-E

ACID OR SHOT	CASING RECORD	TOPS
500 gals. acid.	13 3/8- 326- 340	T. Anh. 1590
	8 5/8-4165-2300	T. Yats. 2640
	5 1/2-2905-750	S. And. 4090
	2 3/8-9901	Glor. 5600
		Tubbs 6969
		Abo. 7729
		W.C. 9130
		Penn. ? 9324
SFD. 11-8-50	COMP. 1-27-51	
I. P. F. 701 BOPD, 1/2" ch., based on 175.25		
B.O. 6 hrs.		
GR. 39 GOR 1644-TP 175	CP 150	TP 9875
REMARKS CONT'D. PAGE 2.		TD 9905 Ls.
		PBD 9902

LEA, NEW MEXICO. 22-14-33
Texas Co. - #1-"AN" - State.

1-174-51

PAGE 2.

- 1 DST 7491-7588, op. 1 hr.; rec. 95' drlg. mud; NS.
- 2 DST 9770-9800, op. 2 hrs. 14 min.; 2000' WB; WB 35 min.; mud 42 min.; gas 45 min.; oil 50 min.; F. to pits 24 min.; F. 89 BF 1 hr.; cut 30% salty sul. wtr.; FP 3400-3275; 20 min. SI 3550; Gr. 42.
- 3 DST 9801-9835, 2000' WB, op. 4 hrs. 50 min.; gas 1 hr. 45 min.; WB 3 hrs.; mud 3 hr. 25 min.; oil 3 hrs. 45 min.; F. to pits 5 min.; F. tanks 1 hr.; 33 B.O. Gr. 41.7; GOR 1150-1; Circ. rec.; rec. 180' blk. mud; 30' sul. wtr. on top tool.
- 4 DST 9836-66, 2000' WB; op. 2 hrs.; rec. 1500' drlg. fluid all. OC; pkr. failed.
- 5 DST 9856-95, 2000' WB; op. 2 hrs. 5 min.; WB 50 min.; gas & mud 1 hr.; oil 64 min.; F. tanks 38 1/2 B.O. 30 min.; F. tanks 29.7 B.O. 30 min.; Gr. 43.2 GOR 1800; 1; FP 1300-1550; 20 min. SI 3600; Circ.
- CONT'D. PAGE 3.

LEA, NEW MEXICO. 22-14-33
Texas Co. - #1-"AN" - State.

K-174-51

PAGE 3.

Rec.; Elec. Log 9895.
Perf. 150/9875-9900; 2" 9901; tr. 500 gals.; F. pits 1 1/2 hrs.; F. tanks 221 B.F. 5 hrs.; cut 20% load wtr., 1/2" ch.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-

COMPANY Texaco Inc. - #9 - State of N. M. "AN"

ELEV. 4210

LOC. 660' FNL & 1980' FWL
Sec. 22, T. 14-S, R. 33-E
10,000' RT - Permo-Penn.

PAY STIMULATION	CASING	TOPS
Perf: 9862- 9885	10 3/4- 388- 400 7 5/8- 4120- 150 4 1/2" L.- 4003- -9999- 700	Yates 2635 Glor 5980 Abo 7715 W.C. 9292
SPD. 6-26-64	COMP. 11-2-64	
I. P. Swb. 49 BOPD + 61 bbls. wtr.		
GR. 41.2 GOR	TSTM TP CP	TP 9862 (W.C.)
REMARKS: /Perf 2 SPI: 9776, 9782, 9883, 9884, 9886, 9888; 1200 acid, swb. 75 BLO, 31 BAW &		TD 10,000 PBD 9998
CONT'D.		PAGE 2.

LEA, N.M. 22-14-33 K-174-
Texaco Inc. - #9 - State of N. M. "AN" PAGE 2.

plus 150 bbls. FW/14 hrs.; set ret/9850';
could not sqz.; reset ret./9587'; sqz.
perfs 9776-9888' w/100 sx
rePerf 2 SPI: 9882, 9884, 9886, 9888; 1000 acid,
swb. 40 bbls. LO, 31 bbls. NO & 38 bbls.
FW/14 hrs., swb. 40 bbls. FW/14 hrs.; sqz.
perfs 9882-88 w/50 sx
rePerf 2 SPF: 9880-85; 500 acid/9880-85
2 Perf 2 SPI: 9766, 9776, 9783, 9792; set ret.BP/
9845'; 500 acid/9766-92, swb. 13 bbls. NO,
51 bbls. LW & 66 bbls. FW/36 hrs.; reA/
2000 gal/9766-92, swb. 10 bbls. NO & 205
bbls. FW/24 hrs.; Visqz perfs 9766-92 w/
75 sx, swb. dry
3 Perf 1 SPI: 9862, 9863, 9864, 9882, 9883,
9884, 9885; 500 acid; reA/1000; set pkrs/
9827' & 9734'; reA/2500 gal/9766-9792,
CONT'D. PAGE 3.

LEA, N.M. 22-14-33 K-174-
Texaco Inc. - #9 - State of N. M. "AN" PAGE 3.

Swb. 213 bbls. FW/24 hrs.; set CIBP/9820';
sqz. perfs 9766-92 w/75 sx; sqz. 4 1/2"
liner w/100 sx; DO/9958'; reA/1000 gal/
9862-85.

Co. LEA POOL SAUNDERS STATE H.M. KROENLEIN 174-59
 COMPANY Texaco Inc. - #8 - St. of New Mexico AN ELEV. -
 LOC. 1980' FNL & 660' FEL
Sec. 22, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	Any.	TOPS
Perf:	10 3/4- 375- 475	Yates	1608
16/9866-70	7 5/8-4122- 1700	Glor.	2645
40/9880-90		Tubb	5398
40/9920-30	4 1/2-3971-10000-	Abo	7011
1000 G. Acid	1250- L.	W.C.	7739
			9329

SPD. 6-14-59 COMP 7-7-59

I. P. F. 569 BOPD; 20/64" ch.

GR 42 GOR 1621 TP 75 CP Pkr.
 REMARKS

TP 9866
 TO 10,000 L.
 PRO 9962

Co. LEA POOL SAUNDERS STATE H.M. KROENLEIN 174-61
 COMPANY Texaco Inc. - #8 - St. of New Mexico ELEV. PAGE 2
 LOC. 1980' FNL & 660' FEL
Sec. 22, T. 14-S, R. 33-E

ACID OR SHOT	CASING RECORD	TOPS
Perf: 9776-9970	old 10 3/4- 369-460 7 5/8- 4122-1700 4 1/2- 3971- 10000-1250-L.	

SPD. 18- - COMP. 1-18-61

I. P. F. 100 BOPD + 30 bbl. wtr.

GR 42.4 GOR 1312 TP
 REMARKS

TP 9776
 TO 10,000
 PRO

14S-33E; Sec 22
 1980' FNL 660' FEL

Lea County

(Saunders-
 Wolfcamp)

Texaco, Inc. # 8 State "AN"

OIL

Spud: 5-25-59; Comp: 1-18-61; Elev: 4197' GR; TD: 10,000'

Casing: 10 3/4" 369'/460sx; 7 5/8" 4122'/1700sx; 4 1/2" 10,000'

Prod Zone: Wolfcamp perfs 9776-9970'

IPP: 100 bbls oil, 30 bbls wtr, 24 hrs, Grav 42.4, GOR 1312-1

Comp Data: not reported

Tops: Pay @ 9776'.

CO. LEA

POOL SAUNDERS- STATE N.M. KROENLEIN
PERMO-PENN.

T-22-14-33

COMPANY Texaco Inc. - #10 - State of N. M. "A"

ELEV.

LOC. 1980'FWL & 660'FWL
Sec. 22. T.14-S. R.33-E
10,600'RT-Wolfcamp

PAY STIMULATION

PERF: 9898-9913

CASING

11 3/4- 355- 300
8 5/8-4120- 500
4 1/2-10060-1100

TOPS

Yates 2650
S.And 4093
Glor 5596
Tubb 7016
Abo 7717
W.C.XX 9317

SPD. 9-9-66

COMP. 10-18-66

I. P. F. 146 BOPD + 71 BW, 32/64"ch.

GR. 42.1 GOR 400 TP 75 CP
DST 9700-9820 op. 1 hr. 5 mins.,
gas in 17 mins., TSTM; rec. 4000'
hvy. GCM w/sli. SO; CONT'D. PAGE 2.TP 9898(Permo-
TD 10,060 Penn)
PBD 9920

LEA, N.M.

Texaco Inc. - #10 - State of N. M. "A"

T-22-14-33

PAGE 2.

- 500' oil + 1500' sul. wtr.; FP 1796-1457;
ISIP 1796; FSIP 1372/___.
- DST 9820-9900 op. 1 hr. 5 mins., gas in 5
mins. at 1305 MCFGPD, decr. to 290 MCFGPD;
rec. 150' gas cut mud + 1850' oil + 400'
salty sul. wtr., 35,000 PPM; FP 735-991;
ISIP 2757/30"; FSIP 2253/1 hr.
- DST 9900-10060 op. 45 mins., gas in 5 mins.,
rec. 44 BO + 33 bbls. salty sul. wtr.,
52,500 PPM; FP 2383-3068; ISIP 3101/___;
FSIP 3135/___.
- Perf 2 SPI: 9944, 9948, 9960, 9964; 500 gal.
acid/9944-64'; swb. 3 BNO + 264 BFW/24
hrs., 9944-64'; sqz. perfs/9944-64' w/
100 SX.
- Perf 2 SPI: 9898, 9902, 9908, 9913; spot 500
gal. acid/9898-9913'.

CO. LEA

POOL SAUNDERS

STATE N.M. KROENLEIN 171-59

COMPANY Amerada Pet. Corp. - #7 - State S "J" ELEV 4201

LOC. 660'FWL & 1980'FWL
Sec. 23. T.14-S. R. 33-E
10,000'

ACID OR SHOT

Perf. 92/9780-93
Perf. 16/9798-9802
Perf. 28/9820-27
Perf. 36/9923-32
1000 acid

CASING RECORD

13 3/8- 294- 250
8 5/8-4154-1450
5 1/2-4034-
-9943- 600Anhy. TOPS 1690
Salt 1753
B.Salt 2495
Yates 2662
B.Yates 2810
S.And. 4113
B.S.And. 5612
Paddock 5920
C.F. 6343
Tubb 7004

SPD. 3-9-59

COMP. 5-3-59

I. P. P. 25 BO + 66 BXW/24 hrs.

GR. 41. GOR 1642 TP - CP
REMARKS TOPS CONT'D.: Abo 7739; W.C.
9067; Penn. Reef 9334.TP 9780 SEE "REMARKS"
TD 9946 L.
PBD 9939

CONT'D. PAGE 2.

LEA, N.M. 23-14-33
Amerada Pet. Corp. - #7 - State S "J"

K-171-59
PAGE 2.

DST / 9736-9850 op. 4 hrs. rec. 800' HOCM, (40% oil),
2058' SMC0; FP 273-795; SIP 1305/30".
DST 2 9850-9900 op. 4 hrs. rev. out 6 BO + 86 BW;
rec. 90' SW; FP 815-3087; SIP 3145/30".
DST 3 9913-46 op. 4 hrs. rec. 650' O&GCM, 80' oil, 10'
SW; FP 55-315; SIP 1990/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-59

COMPANY Amerada Pet. Corp. - #6 - State "J" ELE 4200

LOC. 1980' FSL & FWL
Sec. 23, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASINO RECORD	Anhy.	TOPS
Perf. 16/9862-66	13 3/8- 293- 250	Salt	1615
Perf. 28/9895-9902	8 5/8-4180-1500	B.Salt	1707
2000 acid	5 1/2L.4054-	Yates	2502
	-9918- 800	S.A.	2665
		Glor.	4130
		C.F.	5632
		Tubb	6365
		Abo	7009
		W.C.	7745
		Renn.	9076
			9344
			9862
			9922
			9912

BPD. 1-23-59 COMP 4-13-59

I. P. P. 55 BO + 25 BWPD

GR. 41. GOR 1287 TP CP

REMARKS Perf 40/9848-58; A-500; reA/500;
sqz. w/75 sx; Perf 48/9845-56; sqz.
w/75 sx; acid w/250; Perf 24/9845-56; reA/250;
sqz. w/75 sx; Perf 24/9753-59; 24/9790-96, 500 acid/9753-
9796.

CONTIN. PAGE 2.

LEA, N.M. 23-14-33
Amerada Pet. Corp. - #6 - State "J".

K-171-59
PAGE 2.

Perf 12/9942-95, 500 acid
Perf 28/9895-9902; 2000 acid; PB 9912
Perf 16/9862-66

1DST 9505-9577 op. 4 hrs. gas 43 mins., TSTM; rec. 973'
oil, FP 134-400; SIP 1730/30".

2DST 9745-9834 op. 4 hrs. F. 21 BO + 4 BXW/2 hrs. 20
mins.; rec. 4 BO & 38 BXW; rec. 3 gals. oil below
sub; FP 900-2574; SIP 2593/30".

3DST 9845-9873 op. 5 hrs. F. 35 mins. to pits 25 mins.
F. 40 BO & 26 BXW/4 hrs., Gr. 40; rev. out 55 BO
& 25 BXW/4 hrs., rec. 60' oil, 10' XW below sub;
FP 625-2034; SIP 2872/30".

4DST 9890-9922 op. 4 hrs. rec. 270' O&GCM, 180' oil,
270' O&GCXW below sub; 60' oil 30' XW, Gr. 41;
FP 55-160; SIP 2035/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Pet. Corp. - #5 - State 3 "J" ELEV. 4207 DP

LOC. 660' FNL & FWL
 Sec. 23, T. 14-S, R. 33-E
 10,000'

ACID OR SHOT	CASINO RECORD	TOPS
Perf. 52/9857-70 500 acid	5 1/2 L. 4011- -9985- 600	W.C. 9055
SPO. 10-6-58 COMP. 11-11-58		
I. P. F. 248 BOPD; 12/64" ch.		TP 9857
GR 42.2 GOR 1029 TP 860 CP pkr.		TD 9986 L.
REMARKS P. 83 BO/8 hrs.		PBO 9975

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Petr. Corp. - #4 - State 3 "J" ELEV. 4205 DP

LOC. 1980' FNL & 660' FWL
 Sec. 23, T. 14-S, R. 33-E
 10,000'

ACID OR SHOT	CASINO RECORD	TOPS
500 acid	13 3/8- 295- 250	Anhy. 1629
Perf. 36/9765-74	8 5/8-4169-1500	Salt 1720
Perf. 16/9787-91	5 1/2 L 4046	B. Salt 2480
	- 9949-800	Yates 2656
SPO. 8-17-58 COMP. 9-24-58		S.A. 4108
I. P. F. 232 BO + 14 BXW/24 hrs.		C.F. 6342
1/4" ch.		Tubb 7000
GR 40.3 GOR 1237 TP 350 CP pkr.		Abo 7738
REMARKS		W.C. 9067
		TP 9765
		TD 9950 L.
		PBO 9942

CONT'D. PAGE 2.

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 PAGE 2

LEA, N.M. 23-14-33
 Amerada Pet. Corp. - #4 - State 3 "J"

- 1 DST 9750-9850, op. 4 hrs, 46 min, GS/4 min, MS/16 min, Oil S/26 min, clean to pits/20 min, fl. 115 BO / 53 BSW/4 hr, GOR 1448, Gr. 39, rev out 39 BO / 24 BSW, rec. 110' 0, 10' SW below sub; FP 1680-2815, SIP 2935/30"
 - 2 DST 9865-9905, op. 7 hrs, 33 min, GS/4 min, fluid S/3 hrs, flo to pits/30 min, flo 53 BO / 30 BSW, GOR 1085, rev out 56 BO / 15 BSW, rec 10' 0 below sub. FP 263-1575, SIP 3700/30", ran logs at 9905
 - 3 DST 9905-50, op. 4 hrs, GS/4 min, TSTM, rev out 19 BO / 66 BSW, rec. 90' SW below sub, FP 735-2725, SIP 2790/30"
- ① Perf. 36/9765-74
 ② Perf. 16/9787-91; 500 acid.

Co LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Pet. Corp. - #3 - State S "J" ELEV 4198 DF

LOC 660' FSL & 1980' FWL
 Sec. 23, T. 14-S, R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	Anhy.	TOPS
1000 acid	13 - 296-250	Salt	1613
	8 - 4169-1500	B.Salt	1708
	5 1/2L-4080-	Yates	2504
	-9999- 600	Red sand	2672
SPD 7-5-58 COMP 8-17-58		S.A.	3426
I. P. F. 353 BO/24 hrs.; 14/64" ch.		C.F.	4135
		Tubb	6373
		B.Tubb	7010
			7143
		SEE "REMARKS"	
GR 40.2 GOR 1422 TP 650 CP 400		TP	9754
TOPS CONT'D.: Abo 7745; W.C. 9080;		TD	10,000 L.
REMARKS Penn. Reef 9348.		BPD	9986
CONT'D. PAGE 2.			

LEA, N.M. 23-14-33
 Amerada Pet. Corp. - #3 - State S "J"

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 PAGE 2.

- 1 DST 9738-9826 op. 4 hrs. 2 mins. gas 4 mins. mud 12 mins.; oil 17 mins. F. 130 BO & 8 BW/4 hrs., 5/8" ch.; GOR 794; Gr. 40.3; rev. out 61 BO & 1 BXW; rec. 20' oil below sub; FP 2065-2771; SIP 3092/30".
- 2 DST 9840-90 op. 4 hrs. 37 mins.; gas 4 mins.; mud 16 mins. oil 22 mins. clean to pits 15 mins.; P. 50 BO & 132 BXW/4 hrs.; gas gge. 650 MCF; rev. out 17 BO & 39 BW; rec. 20' XW & 1' oil below sub; FP 2100-2910; SIP 3020/30".
- 3 DST 9890-9935 op. 4 hrs. gas 11 mins. gge. 20 MCFG rev. out 7 BO & 30 BXW; rec. 60' XW; FP 115-1745; SIP 3235/30".
- 4 DST 9945-10,000, 1000' WB op. 4 hrs., rec. WB, 260' XW; 20' oil; FP 405-405; SIP 925/30".
- 1 Perf. 16/9754-58
- 2 Perf. 44/9769-80
- 3 Perf. 44/9790-801; A-1000 rec. load.

Co LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Pet. Corp. - #2 - State S "J" ELEV 4204 DF

LOC 1980' FSL & 660' FWL
 Sec. 23, T. 14-S, R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	Anhy.	TOPS
Perf.: 9766-9880	10 - 294- 250	Yates	1600
1000 acid	7 - 4157-1500	S.A.	2660
	5 L. - 4050	B.S.And.	4117
	-10015- 540	C.F.	5620
SPD 5-15-58 COMP 7-1-58		Tubb	6359
I. P. F. 240 BO + 53 BXW/24 hrs.		B.Tubb	6700
18/64" ch.		Abo	7136
GR 43.5 GOR 1469 TP 300-600 CP -		W.C.	7740
		Penn.Reef	9070
REMARKS		TP	9340
			9766
			10,015 L.
		BPD	9939

CONT'D. PAGE 2.

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PAGE 2.LEA, N.M. 23-14-33
Amerada Pet. Corp. - #2 - State S "J"

DST 9750-9831 op. 5 hrs. gas 6 mins.; mud 30 mins.; salt wtr. & oil 35 mins.; flow 21 BO & 75 BXW/4 hrs.; GOR 1712; Gr. 37.6; rev. out 21 BO & 14 BXW; rec. 20' oil & 20' XW; FP 1285-2910; SIP 3215-30".

DST 9860-9900 op. 5 hrs. 25 mins. gas 3 mins. oil 1 hr. 25 mins.; flow 36 BO + 8 BXW/4 hrs.; gas @ 178,520 CFOPD rev. out 14 BO & 14 BXW; rec. 50' oil, 2' XW below sub; FP 380-1615; SIP 2375/30".

DST 9900-45 op. 4 hrs. rec. 155' HO&GCM, 573' XW; FP 95-310; SIP 1410/30".

DST 9955-10010 op. 1 hr. 15 mins., 1000' WB rec. WB + 100' mud, 180' MCXW; FP 475-520; SIP 3510/30".

Perf. 32/9766-74
Perf. 16/9783-87
Perf. 24/9800-06
Perf. 56/9866-80

LEA N.M. 23-14-33 171-58
COMPANY Amerada Pet. Corp. - #1 - State S "J" 4210 DP
660' FSL & PWL
Sec. 23, T. 14-S, R. 33-E
10,000'

AC D OR SHOT				
Perf. 9754-9932	13	- 276- 250	Anhy.	1597
	3	- 1160-1500	Salt	1690
	5	L. 4063	B. Salt	2497
		- 10062- 600	Yates	2667
			Queen	3436
			S.A.	4120
SFO 2-15-58		4-1-58	Abo	7750
			U.C.	9074

F. 528 BO/24 hrs.; 24/64" ch.

40. GOR 2000 475-650

REMARKS

9754
10,052 L.
CO 10,047

CONT'D. PAGE 2.

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PAGE 2.LEA, N.M. 23-14-33
Amerada Pet. Corp. - #1 - State S "J"

DST 1 9740-9825 op. 4 hrs. 16 mins., gas 3 mins. mud 8 mins. oil 12 mins. to pits 4 mins.; flow 144 BO/4 hrs., Gr. 43.1°; GOR 1240/1; rev. out 52 BO; 109' oil below sub; FP 2090-2646; SIP 2820/30".

DST 2 9825-80 op. 4 hrs. gas 4 mins. mud 47 mins. oil 56 mins.; to pits 4 mins. flow 27 BO/3 hrs., Gr. 41; GOR 3321; rev. out 47 BO; rec. 50' oil, 10' XW below sub; FP 365-1560; SIP 2555/30".

DST 3 9880-9955 op. 4 hrs. 24 mins. gas 24 mins. @ 2300 NCFG; 231' oil, 142' HO&GCM, 90' O&GCM; 33' O&GCM below sub; FP 60-150; SIP 3030/30". (231' oil-Gr. 40° CO 10,047)

DST 4 9855-10,000 op. 4 hrs. 33 mins., 1000' WB gas 33 ml; rec. WB, 1630' oil 43.2 Gr.; 270' mud below sub; sw: 87' oil w/SSXW; FP 430-800; SIP 2525/30".

DST 5 10010-52 op. 3 hrs. 5 mins., 1000' WB rec. WB, 7450 sul. wtr. rev. out 87' sul. wtr. below sub; FP 678-3760; SIP 3760/30". CONT'D. PAGE 3.

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PAGE 3.LEA, N. M. 23-14-33
Amerada Pet. Corp. - #1 - State S "J"

Perf. 140/9897-9932
 Perf. 40/9882-9892
 Perf. 32/9754-62
 Perf. 44/9770-81
 Perf. 52/9790-9803
 Perf. 24/9812-18
 Perf. 24/9840-46
 Perf. 32/9868-76; A/1000: 9754-9932.
 F. 176 B0/8 hrs. (on I.P.)

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: MWJ PRODUCING CO, 1 Saunders "26" State Result: OIL DO
 Loc'n: 23 mi SE/Caprock; 1980' FNL, 660' FWL Sec 26-14S-33E
 PB: 9930'
 Spud: 10-30-81; Comp: 2-13-82; Elev: 4189' Grd; TD: 10,075' Penn
 Casing: 13-3/8" 420'/400 sx; 8-5/8" 4170'/1500 sx; 5 1/2" 10,010'/300
 Prod Zone: (U/Penn), T/Pay 9848', Prod thru Perfs 9848-94'
 IPP: 130 BOPD + 210 BW, Grav 42.1, GOR 1231
 Comp Info: ran GRNL, CCL logs; Perf (Penn) 9945-52'/2 SPF, A/
 1000 gals; CIBPE 9930'; Perf (Penn) 9848-52, 9856-66, 9888-
 94'/2 SPF, A/3000 gals; Rig Rel 1-6-82; C/Tri Service #8
 Tops EL: Yates 2622', San And 4065', Glorieta 5593', Tubb
 6988', Abo 7644', Wolfc 9146'
 API No: 30-025-27605

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Date: 3-31-82 Card No: 44 dh

D. LEA POOL SAUNDERS STATE N.M. & ROENLEIN 174-58
 COMPANY Texas Pacific C&O Co. - #2 - St. N.M. "X" ELEV. 4201 DF
 LOC. 330' FNL & 1650' FWL
 Sec. 26, T. 14-S, R. 33-E
 10,500'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 24/9894-9900	13 3/8- 326- 500	Yates 2663
250 acid	8 5/8- 4181-1873	S. And. 4112
Perf. 20/9750-55	5 1/2- 9999- 300	Abo 7765
Perf. 32/9790-98		W.C. 9112
500 acid		Penn. 9360
IPD. 10-17-58 COMP. 12-11-58		
F. 215 BOPD; 13/64" ch.		
GOR 1023 TP 775 CP pkr.		TP 9750
REMARKS		TD 10,000
		PBO 9840

CONT'D. PAGE 2.

LEA, N.M. 26-14-33
Texas Pacific C&O Co. - #2 - St. N. M. "X".

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PAGE 2.

DST 1 9715-9810 op. 3 hrs. gas 6 mins. mud 8 mins.; oil 25 mins.; F. 84 BO & 13 BXW/2 hrs. 15 mins.; rev. out 40 BO & 5 BXW; FP 2290-2620; SIP 2850/30"
DST 2 9820-9910 op. 3 hrs. mud 38 mins. F. 14 bbls. fluid/1 hr. cut 95% wtr.; rev. out 6000' SOCXW FP 2080-2905; SIP 2950/30".

Perf: 24/9894-9900 250 acid

Perf: 20/9750-55

Perf: 20/9790-98 500 acid

CO. LEA POOL SAUNDERS STATE N.M. HOENLEIN 174-58
COMPANY Texas Pacific C&O Co. - #1 - State of New Mexico "X" ELV 4209 DF
LOC 660' FNL & FWL
Sec. 26, T.14-S. R.33-E
10,500'

AC OR SHOT	CAS NO. RIGID	TIME
Natural	13 - 350-350	S.A. 4130
	8 - 4179-1780	Tubb 7020
	5 - 10049-300	Abo 7778
		W.C. 9110
		Saunders L. 9725
SPO. 6-17-58	COMP. 8-7-58	
I. P. F. 252 BO + 550 MCFG/24 hrs.		
14/64" ch.		
Gr. 42. GOR 2104	790 CP pkr.	9748
REMARKS		10,050 L.
		9984
CONT'D. PAGE 2.		

LEA, N.M. 26-14-33
Texas Pacific C&O Co. - #1 - State of New Mexico "X"

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PAGE 2.

DST 1 9730-9830 op. 3 hrs. gas 4 mins.; mud 14 mins.; oil 16 mins.; flow to pits 20 mins.; flow 115 BO/2 hrs. 45 mins.; 3/8" ch.; 1680 MCFGPD, Gr. 42; FP 3025-3410; SIP 3490/30".
DST 2 9830-9950 op. 3 hrs. 25 mins.; gas 3 mins.; mud 14 mins.; oil 18 mins.; flow 128 BO/3 hrs.; 1/2" ch.; rev. out 42 BO; FP 2055-2710; SIP 2915/30".
DST 3 9950-10050 op. 3 hrs. rec. 80' O&GCM; 520' MCsul. wtr.; FP 105-315; SIP 3060/30". PB 9984'
Perf. 36/9748-57
Perf. 92/9792-9815
Perf. 80/9848-63
Perf. 72/9890-9908; pkr. @ 9717; F. 212 BO/22 hrs.; 12/64" ch.; TP 900#; GOR 1500/1.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 172-58
 COMPANY Fish Northwest Constructors Inc. - #2 - ELEV. 4201 DF
 State "A"

LOC 1980' FSL & 660' FWL
 Sec. 26, T. 14-S, R. 33-E
 10,500'

ACID OR SHOT	CASING RECORD	FEET
	13 - 385-410	S.A. 4127
	8 - 4150-1200	Glor. 5697
		Tubb 7080
		Abo 7789
		W.C. 9154
		Waco 9203
SFD 4-30-58	COMP 6-15-58	
P. P & A		
GR GOR TP CP		10,040 L.
REMARKS		

CONT'D. PAGE 2.

LEA, N.M. 26-14-33

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PAGE 2.

Fish Northwest Constructors Inc. - #2 - State "A".

DST 1 9790-9840 op. 3 hrs., 1000' WB, gas 2 hrs. 14 mins.
 rec. WB & 2000' SO&GCM, 3000' XW; FP 685-2622;
 SIP 2690/1 hr.

DST 2 9852-96 op. 3 hrs. 1000' WB gas 1 hr. 15 mins. rev.
 out WB, 500' SO&GCM; 5800' XW; FP 665-3010; SIP
 3075/1 hr.

DST 3 9895-9960 op. 3 hrs. 1 min., 1000' WB gas 29 mins.
 WB 1 hr. 35 mins. mud 1 hr. 40 mins., oil, mud & wtr
 2 hrs.; to pits 1 min. flow 4 bbls. fluid/1 hr. rec.
 37 BXW & 7 BO&BS; FP 1315-2825; SIP 2915/1 hr.

SIM 10,046 = 10,040; BP @ 9844'

DST 4 9823-44 op. 1 hr., 500' WB rec. 45' GCM & WB;
 FP 305; SIP 520/1 hr.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-53

COMPANY Texas Co. - #1-"EW" - State of N. M. ELEV. 4205 DF

LOC 660' FSL & FWL
 Sec. 26, T. 14-S, R. 33-E

ACID OR SHOT	CASING RECORD	S. A. TYPE
	13 3/8- 340- 375	Glor. 5730
	9 5/8-4195-2500	Tubb 7015
	5 1/2-10048-400	Abo 7800
		W.C. 9225
SFD 4-29-53	COMP. 8-14-53	
P. P & A		
GR GOR TP CP		10,040 L.
REMARKS	CONT'D. PAGE 2.	

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LEA, NEW MEXICO. 26-14-33
Texas Co. - #1-"BW" - State of N. M.

PAGE 2.

- 1 DST 9574-9669 op. 1 hr., 30 mins., rec. 24' mud.
2 DST 9819-9865 op. 2 hrs., gas 8 mins., rec. 24' XW.
40 BO&GCM, 90' HO&GCKW, 20' sul. wtr.
3 DST 9861-90 op. 2 hrs., gas 16 mins., rec. 230' oil,
90' O&GCM, 450' SS.
4 DST 9905-9918 op. 2 hrs., rec. gas 15 mins., rec. 6138'
salty sul. wtr.
5 DST 9953-9960 op. 1 hr., 45 mins., rec. 75' M, BS.
1 Perf. 472/9805-9923 swb. 66 BF/7 hrs., 96% wtr, 15%
BS&W; sqz. 100 sx. 9805-9920. swb. 39 BO/7 hrs.,
tr. 500/9773-9793 swb. 107 BF/7 hrs., 40% AW.
Swb. 67 BF/24 hrs., 98% XW; sqz. 50 sx. 9773-93
2 Perf. 27/9871-78 swb. 61 BF/29 hrs., 98% sul. wtr.
3 Perf. 24/9835-41 swb. 153 BF/24 hrs., 85% XW, 15% BS.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 173-59

COMPANY Harvey L. Hurley - #5 - Atlantic State Elev 4206
Ac 3

LOC. 1980' FSL & FEL
Sec. 27, T. 14-S, R. 33-E
10,000'

ACID OR SHOT		TOPS
1500 acid	13 3/8-500-325	S. And. 4098
Perf. 216/9822-9934	8 5/8-4205-2000	Glor. 5675
	5 1/2-10020-555	Abo 7794
		W.C. 9130
		Saunders Ls. 9767

BPD. 8-21-59 COMP. 10-6-59

I. P. F. 336 BO/24 hrs., 1/2" oh.

G=44. BOR - TP 150 CP pkr.

REMARKS

TP 9822
TO 10,020 L.
PRO

CONT'D. PAGE 2.

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LEA, N.M. 27-14-33
Harvey L. Hurley - #5 - Atlantic State Ac 3

PAGE 2.

- DST 1 9783-9847 tool plugged
DST 2 9779-9847 op. 1 1/2 hr. rec. 45' OCM, 1373' oil,
474' XW; FP 355-890; SIP 2675/30".
DST 3 9843-9912 op. 3 hrs. 5 mins., gas in 6 mins.,
mud 1 hr. 55 mins.; to pits 10 mins. F. 12 BO/1
hr; rev. out 12 1/2 BO; rec. 180' XW; FP 515-
835; SIP 2130/30".
DST 4 9912-60 op. 2 hrs. gas in 5 mins. rec. 5' oil,
270' O&GCM w/trace XW; FP 70-100; SIP 1545/30".
DST 5 9960-10020 op. 40 mins. rec. 10' mud; FP 45-45;
SIP 130/30".
Perf.: 8/9822-24; 16/9829-33; 16/9846-50; 8/9860-62;
6/9904-06; 16/9930-34.

CO. LEA		POOL SAUNDERS		STATE N.M. KROENLEIN 173-60	
COMPANY		Harvey L. Hurley - #7 - Atlantic State		ELEV 4211	
				Acc. 4	
LOC 1650' FSL & 990' FEL					
Sec. 27, T. 14-S, R. 33-E,					
10,000'					
ACID OR SHOT		CASING RECORD		TOPS	
Perf.: 9804-9960		13 3/8- 334- 400		Anhy. 1560	
2000 acid		8 5/8-4150- 725		Yates 2647	
		5 1/2-10010-550		Queen 3420	
				S. And. 4141	
				Glor. 5694	
				C.F. 6360	
				Tubb 7045	
				Abo 7722	
				W.C. 9154	
				Penn. 9374	
SPD. 5-15-60		COMP. 7-7-60		TP 9804	
I. P. F. 430 BOPD, 26/64" ch.				TD 10,010 L.	
GR 42. GOR 1800 TP 500		CP pkr.		PBD 9971	
REMARKS F. 316 BO/16 hrs.					

CO. LEA		POOL SAUNDERS		STATE N.M. KROENLEIN 171-58	
COMPANY		The Atlantic Rfg. Co. - #2 - State "R"		ELEV 4206 DP	
LOC 660' FNL & FEL					
Sec. 27, T. 14-S, R. 33-E					
10,100'					
ACID OR SHOT		CASING RECORD		TOPS	
Perf. 104/9802-28		11 3/4- 399- 250		W.C. 9110	
Perf. 76/9857-76		5 1/2-9950- 600			
1000 MA					
SPD. 9-24-58		COMP. 11-6-58		TP 9802	
I. P. F. 323 BOPD; 1/4" ch.				TD 9950 L.	
GR 42.8 GOR -		TP 675		PBD 9932	
CP pkr.					
REMARKS F. 148 BO/11 hrs.					

CO. LEA		POOL SAUNDERS		STATE N.M. KROENLEIN 173-53	
COMPANY		Lawton Oil Corp - #2 - State R		ELEV 4214'	
LOC 660' FNL & 1980' FWL of sec.					
Sec. 27; T-14S; R-33E					
ACID OR SHOT		CASING RECORD		TOPS	
		9-5/8 4158 2700		Anhy 1607	
		5-1/2 9904 300		Yates 2650	
		2 9864		S.A. 4085	
				Glor 5640	
				Abo 7730	
				Tubb 7740	
				Penn 9338	
SPD. 1-5-53		COMP. 2-23-53		TP 9874'	
I. P. F. 249 BOPD, 1/4" ck.				TD 9905' 11mo	
GR 43		GOR 1189 TP 600		CP 9864	
REMARKS		CONT'D ON PAGE 2			

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LEA, NEW MEXICO 27-14S-33E
Lawton Oil Corp - #2 - State R

DST 9761-80 op 4 hrs. gas 8 mins rec. 8700' XW.
FP 3560 SIP 3560

DST 9810-40 op 4 hrs. gas 5 mins rec. 300' oil. FP 300'
GCM, sul odor. FP 300 18 mins SIP 940#

DST 9867-9905 op 2-1/2 hrs. gas 3 mins fluid 20 mins
Clean pits 10 mins F/9 BO 2 hrs. NWCirc rec. rec. no v
wtr. Perf 106/9874-9899

4/DST 9874-9899 op 8 hrs. F/83 BO 8 hrs.

CO. LEA POOL SAUNDERS STATE N.M. KRUEBLEIN 173-58

COMPANY Phoenix Enterprises - #1 - Atlantic State. Lev. 4212 DF

Loc. 660' FSL & 1980' FWL

Sec. 27, T. 14-S, R. 33-E
10,000'

ACID OR SHOT

Perf. 16/9807-11
Perf. 24/9830-36
Perf. 60/9844-59
Perf. 44/9867-78
Perf. 20/9895-9900
cont'd.

CASING RECORD

13 3/8- 322- 300
8 5/8- 4223-1950
5 1/2- 9992- 600

TOPS

S.A. 780
B.S. 3670

SPO. 10-18-58 COMP. 12-9-58

I. P. P. 241 BO + 23 BXWFD

OR. 38. BOR

TP

CP

REMARKS Perf.: 12/9914-17; 20/9920-25;
32/9947-55; 28/9978-85; 1000 acid;
SF —

TP 9807

TD 9992

PRO

CONT'D. PAGE 2.

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PAGE 2.

LEA, N.M. 27-14-33
Phoenix Enterprises - #1 - Atlantic State.

DST 9790-9846 op. 2 hrs. gas 5 mins. rev. out 13 BXW +
24 BO; rec. 40' AW & 20' oil; FP 255-1515; SIP
2732/1 hr.

DST 9847-94 op. 3 hrs. gas 8 mins. rev. out 400' GCM,
rec. 20' HO&GCM, 40' oil; FP 127-193; SIP 2635/1 hr.

DST 9894-9945 op. 3 hrs. 35 mins. gas 3 mins. F. 27 BO
thru 1" ch./2 hrs. 35 mins.; rev. out 9 3/4 BO; rec.
60' oil; FP 187-685; SIP 245/60".

DST 9971-92 op. 3 hrs. 15 mins. gas 4 mins. oil 2 hrs
11 mins. F. 12 BO; rev. out 20 BO & 13 BW; FP 190-
1415; SIP 1763/1 hr.

Co. LEA POOL SAUNDERS STATE N.M. ARDENLEIN 173-53

COMPANY Lawton Oil Corp - #3 - Atlantic State ELEV. 4219'
"R"

LOC. 1650' FNL & 990' FWL of sec.
Sec. 27: T-14-S; R-33-E

ACID OR SHOT	CASINO RECORD	TOPS
1 Perf: 220/9800-55	13-3/8 338 300	Yates 2646
2 Perf: 112/9912-94	9-5/8 4150 2200	SA. 4075
Acid 5500 gals.	5-1/2 10000 300	Glor 5644
		Tubb 7040
		Abo 7740
		Penn 9356
SPD. 3-6-53	COMP. 5-12-53	
I. P. P&A	360' oil 330' 935	
GR. GDR TP CP		TP
REMARKS CONT'D ON PAGE 2		TO 10,000' lime
		PBD

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PAGE 2

LEA, NEW MEXICO Sec. 27-14S-33E
Lawton Oil - #3 - Atlantic State "R"

- 1 DST 9155-9192 op 30 mins rec. 15' mud N.S.
2 DST 9800-50 op 5 hrs. rec. 360' oil / 450' O&GCM; FP 175-250 SIP 2050#
3 DST 9885-95 op 4 hrs. Gas 5 mins, rec. 300' oil; 8000' X sul wtr. FP 2300 SIP 2625#
4 DST 9925-60 op 2 hrs. Gas 7 mins, Rec. 930' oil; 270' O&GCM; / 30' XW; FP 120 SIP 1380#

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PAGE 2.

LEA, N.M. 27-14-33
Atlantic Ref. Co. - #3 - State "R"

- DST② 9825-9900 op. 1 1/2 hrs. gas 5 mins. rec. 1440' SW; rec. 25' oil below sub; FP 244; SIP 1553/30".
DST③ 9900-50 op. 1 hr. gas 5 mins. rev. out 433' HO&GCM, 850' WCM, 7379' oil; rec. 90' oil w/SXW below sub; FP 350-1035; SIP 3000/30".
DST④ 9950-10,000 op. 1 hr. rec. 105' OCM, 90' HO&GC salty sul. wtr.; FP 25-55; SIP 1150/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-59
 COMPANY Atlantic Ref. Co. - #3 - State "R" ELEV. 4214
 LOC. 660' FNL & 1980' FEL
 Sec. 27, T. 14-S, R. 33-E
 10,100'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 64/9910-26 500 acid	11 3/4- 382- 275 8 5/8- 4150-1000 5 1/2-10000-800	Anhy. 1580 Yates 2650 S.A. 4122 Glor. 5640 Abo 7773 W.C. 9123
SPO. 2-1-59 COMP 3-31-59		
I. P. F. 192 BO + 19 BWPD, 16/64" ch.		
GR. 40. GOR 1349 TP 450 CP pkr. REMARKS ① DST 9740-9825 op. 2 hrs. gas 5 mins. rec. 259' OCM, 1039' oil, 120' XW, FP 85-435; SIP 2215/30". CONT'D. PAGE 2.		TP 9910 TD 10,000 PRO 9987

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 173-59
 COMPANY Harvey L. Hurley - #2- Atlantic-State ELEV. 4214
 LOC. 660' FSL & FWL
 Sec. 27, T. 14-S, R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 104/9911-37 1000 acid	13 3/8- 326- 325 8 5/8- 4224-1950 5 1/2-10002-600	Tubb 7035 Abo 7753 Husco 9207 W.C. 9800
SPO. 12-4-58 COMP 1-20-59		
I. P. F. 243 BOPD; 24/64" ch.		
GR. 43. GOR - TP 290 CP pkr. REMARKS		TP 9911 TD 10,003 PRO 10,002
CONT'D. PAGE 2.		

LEA, N.M. 27-14-33
 Harvey L. Hurley - #2- Atlantic-State.

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 PAGE 2.

DST 9866-9956 op. 2 hrs. 15 mins., gas 2 mins.; oil 8 mins.; to pits 10 mins. F. 62 BO/2 hrs.; rev.out 27 BO; rec. 90' oil below sub; FP 1040-1885; SIP 2485/1 hr.
 DST 9971-10002 op. 2 hrs. 52 mins. gas 4 mins. oil 50 mins. to pits 2 hrs.; flow 31 BO (30% wtr.)/2 hrs.; FP 490-1691; SIP 2015/1 hr.
 DST 9819-56 op. 3 hrs. gas 5 mins. rec. 13 BO & 52 BXW/undes. time; rec. 10' oil & 80' XW below sub; SI 2825/1 hr.; FP 432-2045; SIP 2355/60".

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-51
 COMPANY Atlantic - #1-R - State ELEV. 4211
 LOC. 1980' FSL & 1980' FWL of Sec
 Sec. 27, T-14-S, R-33-E

ACID OR SHOT	CASING RECORD	TOPS
Perf 24/9948-54 Perf 60/9932-48 2500 gals. A.	13-3/8 - 369 - 450 9-5/8 - 4106 - 3450 7 - 10100 - 600 2-1/2 - 9957	A. 1540 S.A. 4095 Glor. 5640 Abo. 7730 W.C. 9160 Miss. 12965 Dev. 13742 (Tentav (Tops Con't)
BPD. 2-13-51 COMP. 10-6-51		TP 9932 TD 14,147 Dol. RBD 10,039
I. P. F. 534 ED/24 hrs / 177 BSltW; 5/8" ch.		
GR. A1 BOR 250 TP 250 CP 0		
REMARKS	Con't. Page #2	

LEA, NEW MEXICO
 Atlantic - #1-R - State

27-14-33

171-51
 Page #2

- 1 DST 9793-9822, op. 1', rec. 2000' wtr blanket, 360' MCSltW, 5620' GCSltW.
- 2 DST 9822-52, op. 1', rec. 470' wtr blanket, 1530' GCW blanket, 90' hvy GC & al GCM
- 3 DST 9852-82, op. 1', rec. 2000' wtr blanket, 90' p H.
- 4 DST 9872-9912, op. 1', rec. 2000' wtr blanket, 90' oil, 180' oil wtr, 150' MCSltW.
- 5 DST 9912-42, op. 1', rec. 2000' wtr blanket, 30' p H.
- 6 DST 9942-72, op. 1', wtr blanket 2000. GCMtr blanket/10", GCM/6", GCM/30", rec. 810' sltW, 540' GCSlt W sltW, 650' GAGCM
- 7 DST 9972-10002, op. 1', rec. 2000' wtr blanket, 30' p H, NS
- 8 DST 10002-036, op. 1', rec. 2000' wtr blanket, 30' p H, NS
- 9 DST 10091-134, op. 1', rec. 2000' wtr blanket, 1290' slt.W
- 10 DST 10422-436, op. 1', rec. 2000' wtr. blanket, 270' slt W.
- 11 DST 10530-590, op. 1', rec. 2000' wtr blanket, 360' al GCM,

Con't. Page #3

LEA, NEW MEXICO
 Atlantic - #1-R - State

27-14-33

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 Page #3

- 1500' slt.W.
- 12 DST 11079-128, op. 1', rec. 2000' wtr blanket, 95' SI GCM
 - 13 DST 13720-724, op. 1', rec. 3500' wtr blanket, 615' al GAGCM
 - 14 Core 12428-448, rec. 20' sh.
 - 15 DST 13783-837, 3500' wtr blanket, op. 1', 50", failed
 - 16 DST 13790-838, op. 3', failed
 - 17 DST 14040-082, op. 45", rec. 3500' wtr blanket, 35' p H.
 - 18 DST 14087-147, op. 1', rec. 4000' wtr blanket, 3012' p MCSlt wtr, 150' p H, FP 1995-3010, 15" SI 5717; PB 10,039; fl. 4/5 ED / 25% slt W; 5/8" ch/15'; fl. 334 BO / 111 BSlt W/15 hrs;
- Tops Dev. 13742
 Fuss. 14050

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 173-59
 COMPANY Harvey L. Hurley - #3 - Atlantic StateA ELEV 4212
 LOC. 1980' FSL & 790' FWL
 Sec. 27, T.14-S, R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 8 1/4 / 9905-26 1000 acid	13 3/8 - 315 - 50 8 5/8 - 4225-2000 5 1/2 - 10010-5550	Anhy. 1538 S. And. 4082 Glor. 5655 Abo 7766 W.C. 9107 Penn. 9766
SPD. 6-6-59 COMP 7-25-59		
I. P. F. 260 BO/24 hrs., 16/64" ch.		TP 9905 TD 10,010 PSD
GR. 42. GOR - TP 180 CP -		
REMARKS		

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 173-59
 COMPANY Harvey L. Hurley - #3 - Atlantic St. ELEV 4207
 LOC. 660' FSL & 2080' FEL
 Sec. 27, T.14-S, R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 2 1/4 / 9822-28 Perf. 8 / 9832-34 Perf. 20 / 9834-39 Perf. 20 / 9843-48 Perf. 28 / 9857-64 500 MA	13 3/8 - 326 - 325 8 5/8 - 4224-1800 5 1/2 - 9982 - 600	S.A. 4112 Glor. 5680 Abo 7805 W.C. 9150 Penn. 9792
SPD. 1-18-59 COMP. 2-28-59		
I. P. F. 388 BOPD, 32/64" ch.		TP 9822 TD 9996 PSD 9982
GR. 38. GOR - TP 200 CP pkr.		
REMARKS DST 9833-9873 op. 2 hrs. 53 mins. gas 3 mins. mud 30 mins. oil 53 mins. F. 41 bbls. fluid/2 hrs.; CONT'D. PAGE 2.		

LEA, N.M. 27-14-33
 Harvey L. Hurley - #3 - Atlantic St.

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 PAGE 2.

rev. out 40 bbls. fluid; SIP 2982/30"; FP 862-2052; SIP 2697/1 hr.
 DST 9874-9941 op. 2 hrs. 17 mins. gas 3 mins. oil 17 mins. F. 50 bbls. fluid/2 hrs.; rev. out 37 bbls. fluid, (7 BXW); SIP 2551/38"; FP 1209-2075; SIP 2462/1 hr.
 DST 9946-9996 op. 2 hrs. 37 mins. rec. 600' VHO&GCM, 60' VHO&GCM below sub; no wtr.; SIP 230/30"; FP 1117-187; SIP 2301/1 hr.

- Dead Bug

Atlantic St. AC 2 (32 1/2 - 100 - 312)

all 1950-71 in play 1976

Co. **LEA** POOL **SAUNDERS** STATE **N.M. GROENLEIN 173-60**
 COMPANY **Harvey L. Hurley - #6 - Atlantic St.** ELEV **4206**
 Ac. **4**
 LOC **330' FSL & 990' FEL**
Sec. 27, T. 14-S, R. 33-E
10,000'

ACID OR SHUT	CASING RECORD	Yates	Tops
Perf. 120/9813-9927	13 3/8- 314- 300	S. And.	2650
1750 acid	8 5/8- 4155- 500	Glor.	4124
	5 1/2- 10010- 550	Abo	5700
		W.C.	7823
			9166

BPD 1-6-60 COMP 2-22-60

I. P. F. 302 BOPD, 14/64" ch.

G# 45. BOR - TP 300 CP pkr.

REMARKS Perf.: 28/9813-20; 12/9850-53;
 32/9855-63; 16/9870-74; 32/9919-27.

TP 9813
 TD 10,010 L.
 PRO 9970

LEA COUNTY NEW MEXICO SAUNDERS FIELD
 Well: MWJ PRODUCING CO. 1 Saunders "28" State Result: OIL DO
 Locn: 23 mi SE/Caprock, 1980' FNL, 1980' FWL of Sec 28-14S-33E
 Spud: 8-3-80; Comp: 10-17-80; Elev: 4216' Grd; TD: 10,100' Penn; PB:
 10,035'
 Casing: 13-3/8" 420'/400sx; 8-5/8" 4126'/1500sx; 5-1/2" 10,100'/300
 sx; 2-3/8" 10,018'
 Prod Zone: (U/Penn), T/Pay 9948', Prod thru Perfs 9948-54'
 IPP: 140 BOPD + 55 BW, Grav 39.9, GOR 1286
 Comp Info: Perf (U/Penn) 9948-54' w/2 SPF, A/3000 gals (20%), C/Tri-
 Service
 Tops: (EL) San And 4060', Glorieta 5560', Tubb 6955', Abo 7620',
 Wolfe 9294'
 API No: 30-025-26894

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Petroleum Information

CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 11-26-80 Card No. 10 gh

LEA POOL SAUNDERS STATE N.M. GROENLEIN 174-58
 Texas Co. - #2 - State N.M. "BU" ELEV 4218 DF
 660' FSL & FEL
 Sec. 28, T. 14-S, R. 33-E
 10,000'

1500 acid	13 - 358- 350	Yates	2610
Perf.: 9914-40	8 - 4140-3000	S.A.	4055
	5 - 10005- 400	Glor.	5655
		Tubb	7018
		Abo	7755
		W.C.	9360

2-6-58 3-26-58

F. 177 BO/24 hrs.; 20/64" ch.

42.7 1720 75 -

9914
 10,005 L.
 10,002

CONT'D. PAGE 2.

K-174-58
PAGE 2.LEA, N.M. 28-14-33
Texas Co. - #2 - State N. M. "BU".

1DST 9820-9905 op. 3 1/2 hrs. gas 5 mins., 49 MCFGPD;
rev. out 12 BO & 35 BXW; FP 3370-1985; SIP 3260/30".

2DST 9905-55 op. 3 hrs. gas 5 mins. rec. 60 MCFGPD; rev.
out 50 BO; FP 430; SIP 1230/30".

3DST 9955-10005 op. 3 1/2 hrs. gas 4 mins., 24 MCFGPD;
rev. out 10' HO&GCM; FP 60-2015; SIP 120/30".

Perf. 104/9914-40; 500 acid swb. & flow acid wtr.
A/1000 swb. 231 BAW & 7 BBS&W/40 hrs.

CO. LEA POOL N.SAUNDERS STATE N.M. KROENLEIN 171-54
COMPANY Amerada - #3 - State SH ELEV. 4219'
LOC. 1980' FEL & 1980' FSL of sec.
Sec. 28-14S-33E

ACID OR SHOT	CABING RECORD	TOPS
Acid 3000 gals.	13-3/8 296 250	Anhy 1558
	8-5/8 4180 1500	Salt 1652
Perf 60/9940-55	5-1/2 9980 600	Yates 2637
	2 9958	S.A. 4112
		Glor 5636
		C.F. 6333
		Tubb 7015
		Abo 7757
SPO. 11-28-53 COMP. 1-25-54		Cont'd
I. P. F. 211 BOPD / 25 BAW& salt Wtr.		TP 9940'
	16/64" ck.	TO 9980' ls.
GR. 40.9 BOR 896 TP 475 Pkr CP 9569		RED 9966'
REMARKS		
CONT'D ON PAGE 2		

LEA, NEW MEXICO 28-14-33
Amerada - #3 - State SHK-171-54
PAGE 2

TOPS; WC 9077 Penn XX 9614

1DST 9135-9255 op 1 hr 50 mins rec. 70' mud. FP 20-50
15 min SIP 50#

2DST 9765-9850 op 4 hrs. gas 5 mins, unloaded 730' MCO
oil out 270' XWCM. 800' salty surf wtr. Rec. 20' oil;
70' XW. FP 830 15 min SIP 1870

3DST 9850-9900 op 5 hrs. 39 mins, Gas 4 mins, Mud & Oil
1 hr. 39 mins, F. 30 BO / 12 BXW 4 hrs. Rev. out 15
BO / 11 B salt wtr. Rec. 10' oil/-10' XW. below sub.
FP 650-1825 15 min SIP 2675#

4DST 9900-40 op 4 hrs. gas 9 mins, rev. out 120' oil, 225'
O&GCM, Rec. 105' oil, 10' O&GCM, below sub.
FP 100-130 15 min SIP 395

5DST 9940-80 op 4 hrs. 22 mins, gas 3 mins, Mud 18 mins,
Oil 20 mins F. 130 BO / 12 BW 4 hrs. Rev. out 13 BO
Rec. 87' oil; 3' salt wtr. below sub. FP 935-1385
15 mins SIP 2575#

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-59

COMPANY Amerada Pet. Corp. - #4 - State S "H" ELEV. 4219

LOC. 660' FSL & 1980' FEL
Sec. 28, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	Any.	TOPS
Perf. 132/9939-9972	13 3/8- 320- 250	Salt	1541
500 acid	8 5/8- 4150-1500	B. Salt	1637
	5 1/2L.-3954	Yates	2466
	-9984-8000	Queen	2626
		S.A.	3404
		Glor.	4115
		C.F.	5632
		Tubb	6360
			7005
SPO. 2-23-59 COMP 4-5-59		SEE "REMARKS"	
I. P. F. 143 BOPD + 14 BW, 24/64" ch.		TP	9939
GR. 41. GOR 1303 TP 40 CP pkr.		TO	9988
REMARKS TOPS CONT'D.: Abo 7747; W.C. 9078;		PBO	9980
Penn. XX 9361.			

LEA COUNTY

NEW MEXICO

SAUNDERS FIELD

MWJ Prod co. I Saunders "28-A" State

Well: 23 mi SE/Caprock, Sec 28-14S-33E-1980 FNL, 660

Result: OIL DO
FEL Sec

Spud: 4-14-81, Comp: 9-4-81, Elev: 4207' GL, TD: 10,050 (PSLV) PB: 9937
 Casing: 13 3/8" 370' / 400sx, 8 5/8" 4125' / 1300sx, 5 1/2" 10,050' / 300sx
 Prod Zone: (PSLV) T/Pay 9886', Prod thru Perfs 9886-94'
 IPP: 30 BOPD + 45 BW, Gty 39.9, GOR 1286
 Comp Info: Perf (Bough "C") 9886-94, A/3000 gals-C/Tri-Service #8
 Tops: (EL) SADR 4060', GLRT 5560', Tubb 6955', Abo 7620', WFMP 9294'
 PSLV 9948'
 API No: 30-025-27361

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 CORPORATION
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Date: 10-7-81 Card No: 9 mja

Co. LEA

POOL SAUNDERS

STATE N.M. KROENLEIN 174-52

COMPANY Texas Co. - #1 - State "B"

ELEV. 4216 DF

LOC. 1980' FSL & 660' FEL
Sec. 28, T. 14-S, R. 33-E

ACID OR SHOT	CASING RECORD		TOPS	
	13	3/8- 330- 350	S.A.	4095
	8	5/8-4140-2500	Glor.	5670
	5	1/2-9902- 300	ABO	7790
	2	-9910	W.C.	9150
SPO. 10-8-52	COMP.	12-18-52		
I. P.	Swb. 18 1/2 bbls. fluid cut w/25% wtr./24 hrs.		TP	9900
GR. 43.	GOR, 1938	TP - CP -	TO	9920 L.
REMARKS			PBO	
CONT'D. PAGE 2.				

K-174-52
PAGE 2.LEA, N.M. 28-14-33
Texas Co. - #1 - State "BU".

1 DST 9850-9910 op. 2 1/2 hrs., rec. 280' OGCM, 3864' oil, unload 2690' oil, 376' SWCM, 270' SW.
 2 DST 9890-9920 op. 3 hrs. 47 mins., gas 6 mins., mud 1 hr. 38 mins., oil 1 hr. 47 mins., flow 16 BO/2 hrs., circ. rec. gas 50,000 CFOPD; PP 1410; SIP 2800/15".
 Sub. & flow 182 bbls. fluid, 95% oil & 5% BSAW/24 hrs.
 Sub. & flow 69 bbls. fluid, 15% wtr./10 hrs.
 P. 28 bbls. fluid/3 hrs., 2% wtr., 21/64" ch.
 Sub. & flow 73 bbls. fluid/9 hrs., 32% wtr.
 Sub. 80 bbls. fluid/9 hrs., 85% wtr.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-51
 COMPANY Atlantic - #1 - "S" - State ELEV. 4220
 LOC: 1980 FNL & 1980 FEL
 Sec. 28, T-14s, T-33E

ACID OR BHT	CASING RECORD	TOPS
12,000 gals.	13 3/8- 368-400	S.A. 4120
72 holes 9878-90	9 5/8-4137-3500	Glor. 5670
60 holes 9932-42	7 -10012-800	ABO. 7760
		W.C. 9180
		Por. 9820

BPD. 2-9-51

COMP. 6-1-51

I. P. F. 224 BO. / 373 BW. in 24 hrs.
 thru 2" open ch., on 2 1/2" at 9936.

GR. 41.2 BDR 1672TP

CP

REMARKS CONT'D. PAGE 2.

TP 9878
 TD 10012 L.
 PBD 9942

K-174-51
PAGE 3.

LEA, N.M. 28-14-33
 Atlantic - #1 - "S" - State

1 DST 9924-77, op. ?; gas 11 mins.; mud 2 hrs. 8 mins.
 oil 2 hrs. 11 mins.; F. 67.7 BF. 16 hrs.; 50% Oil
 Re-Perf. 60/9946-56.
 2 DST 9914-80, op. ?; Gas 5 mins.; M&O. 3 hrs. 39 mins.
 F. 51 BF. 9 1/2'; 50% Oil; 50% wtr.
 1 Perf. 60/9937-42.
 2 DST 9897-9944, op. ?; 2000' B.; gas 1 hr. 50 mins.
 WB. 5 hrs. 40 mins. F. 12 BF 16 hrs.; 20-25% Oil
 75% wtr.; F. 83.5 BF. 24 hrs.; 50% oil; 50% wtr.
 Tr. 100 gal. thru perfs.; F. 75 B.D. / 73 B.
 sul wtr. 12 hrs.; 20/64" tbq. ch.; F. 51 BO.
 / 70 B. sul. wtr. 10 hrs.; 20/64" tbq. ch.
 1 Perf. 72/9878-90.

LEA, N.M. 28-14-33
Atlantic - #1-"S" - State

K-171-51
PAGE 2.

- 1 DST 9809-30, op. 1 hr.; rec. 115' mud.
2 DST 9830-68, op. 1 hr.; rec. 30' mud.
3 DST 9868-88, op. 1 1/2 hr.; gas 45 mins.; rec. 750' oil; 90' O&GCM.; 90' BS&Sul. WCM.; FP. 1250, SI. O.
4 DST 9877-9918, op. 2 hrs.; gas 44 min.s; rec. air recovery, rec. 650' O&GCM.; 250' WB.; 120' Sul. wtr.; 150' MCSul.wtr.; FP. 1200, SI. 1750.
5 DST 9907-58, op. 1 1/2 hrs.; gas 46 mins.; unload 2000 WB. 5310 oil.; rec. 1000' oil, 520 slty. sul. wtr.; 90' O&GCM.; FP. 2300; 15 mins. SI. 3150.
6 DST 9979-10012, op. 1 1/2 hrs.; rec. 2000 WB.; 3250 sul. wtr.; 180 MCSul. wtr.
Perf. 60/9940-50.
Perf. 60/9946-56.
CONT'D. PAGE 3.

Co. LEA	POOL SAUNDERS	STATE N.M. KROENLEIN 171-59
COMPANY Amerada Pet. Corp. - #5 - State S "H"		ELEV. 4223
LOC. 660' FSL & 1980' FWL Sec. 28, T. 14-S, R. 33-E 10,000'		
ACID OR SHOT Perf. 80/9965-85 500 acid	CASING RECORD 13 3/8-295-250 8 5/8-4149-1500 .5 1/2-10030-600	TOPS Anhy. 1553 Salt 1647 B.Salt 2467 Yates 2627 Red sand 3401 S.And. 4107 Tubb 7006 Abo 7754 W.C. 9067 Penn. 9357
BPD. 4-12-59 COMP 5-24-59		
I. P. F. 163 EO + 182 BW/24 hrs.		
GR. 41.7 GOR 1076 TP 200 CP pkr.		
REMARKS: DST 9830-80 op. 5 1/2 hrs., O&XW 90 mins. F. 12 BO & 28 BXW/4 hrs.; rev. out 25 BO & 51 BXW; rec. 90' XW; FP 930-2780; SIP 2840/30". CONT'D. PAGE 2.		

LEA, N.M. 28-14-33
Amerada Pet. Corp. - #5 - State S "H"

K-171-59
PAGE 2.

- 2 DST 9900-9944 op. 4 hrs. 25 mins. gas in 4 mins. oil in 24 mins. F. 109 BO & 15 BXW/4 hrs.; rev. out 11 BO & 28 BXW rec. 70' O&GCM.; FP 1500-2220; SIP 2600/30".
3 DST 9955-9994 op. 4 hrs. 20 mins. oil 19 mins. F. 147 BO + 16 BXW/4 hrs. rev. out 17 BO & 28 BXW; rec. 60' mud 10' oil; FP 1640-2260; SIP 2620/30".
4 DST 10002-10030 op. 1 hr. 25 mins. rec. 30' drlg. mud; FP 0-0; SIP 1400/30".

CO. **LEA** POOL **UNDESIGNATED STATE N.M. KROENLEIN 171-59**
 COMPANY **Amerada Petr. Corp. - #1 - State SK** ELEV. **4234 DF**
 LOC. **660' FSL & FEL**
Sec. 29, T. 14-S, R. 33-E

ACID OR SHOT	CASING RECORD	TOPS
500 acid	5 1/2 L. -4062- -10195- 800	Penn. 9368
SPD. 1-9-59 COMP 2-21-59		
I. P. P. 58 BO + 50 BXW/24 hrs.		TP 9944
GR. 40.2 GOR 995 TP - CP		TD 10,200 L.
REMARKS		PRD 10,108

LEA COUNTY NEW MEXICO SAUNDERS
 Well: POGO PRODUCING CO. 1 SAN State Result: OIL DO
 Loch: 23 mi SE/Caprock, Sec 32-14S-33E, 990 FNL, 660 FEL Sec
 Spud: 1-29-81, Comp: 7-10-81, Elev: 4221' Grd, TD: 10,250 (FSLV) PB: /10,055
 Casing: 13 3/8" 310'/490sx, 8 5/8" 4170'/1819sx, 5 1/2" lnr-3864-
 10,249-1490sx
 Prod Zone: (Penn) T/Pay 9496', Prod thru Perfs 9496-9919'
 IPP: 77 BOPD + 17 BW, Gra (NR) GOR 1636'
 Comp Info: Perf (Penn) 9496 9500, 9853-55, 9888-91, 9916-19, 10,064-
 070 w/46 shots (OA) S/30 SW in 2 runs, PB to 10,055, A/2000 gals
 C/Cactus #30
 Tops: (EL) NR
 API NO: 30-025-27208

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

Date 7-29-81

Card No.: 10 mja

CO. **LEA** POOL **SAUNDERS** STATE **N.M. KROENLEIN 171-59**
 COMPANY **Amerada Pet. Corp. - #8 - J. E. Stevens** ELEV. **4215**
 LOC. **1980' FSL & FEL**
Sec. 33, T. 14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	Any. TOPS
Perf. 88/9934-56	13 3/8- 298- 250	Salt 1605
500 acid	8 5/8-4168-1500	Yates 2617
	5 1/2-4063-	S. And. 4113
	L. -10008- 800	Paddock 5953
		C.F. 6364
		Tubb 6992
		Abo 7733
		W.C. 9068
		Penn. Reef 9480
SPD. 7-18-59 COMP 8-28-59		TP 9934
I. P. P. 255 BO/24 hrs., 24/64" ch.		TD 10,010
GR. 41. GOR 708 TP 510 CP pkr.		PRD 10,000
REMARKS		
DST 9810-55 op. 4 hrs. rec. 60' mud + 170' GCM; PP 100-120; SIP 620/30".		
CONT'D. PAGE 2.		

LEA, N.M. 33-14-33
Amerada Pet. Corp. - #8 - J. E. Stevens

K-171-59
PAGE 2.

- 1 DST 9863-9922 op. 4 hrs. rec. 125' oil, 250' O&GCM, 162' XW; FP 80-220; SIP 1200/30".
2 DST 9916-63 op. 4 hrs. 37 mins. F. 77 BO + 7 BXW/4 hrs. rev. out 41 BO no wtr.; rec. 84' XW; FP 940-1720; SIP 2220/30".

Co. LEA

POOL SAUNDERS

STATE N.M. KROENLEIN 171-59

COMPANY Amerada Pet. Corp. - #7 - J. E. Stevens ELEV. 4216

Loc. 1980' FNL & FEL

Sec. 33, T. 14-S, R. 33-E
10,000'

ACID OR SHOT
Perf. 96/9956-80
500 acid

CASING RECORD
13 3/8-318-250
8 5/8-4159-1500
4 1/2-L-4017-
-10011-800

Anhy.	TOPS	
Salt	1517	
B. Salt	1611	
Yates	2454	
Queen	2615	
S. And.	3395	
Abo	4105	
W.C.	7739	
Penn	9077	
	9366	

BPO. 6-2-59

COMP. 7-16-59

I. P. F. 226 BO + 6 BW/24 hrs., 1/2" ch.

GR. 40. GOR 909 TP 0-120 CP pkr.

REMARKS

TP 9956
TO 10,015 L.
PRO 10,006

CONT'D. PAGE 2.

LEA, N.M. 33-14-33
Amerada Pet. Corp. - #7 - J. E. Stevens

K-171-59
PAGE 2.

- 1 DST 9810-53 op. 6 1/2 hrs. F. 41 BO + 3 BXW/4 hrs., rev. out 22 BO & 6 BXW; rec. 30' GCM + 10' oil; FP 220-1040; SIP 2320/30".
2 DST 9870-9928 op. 4 hrs. 9 mins. rev. out 36 BO + 8 BXW; rec. 140' XW; FP 900-1840; SIP 2020/30".
3 DST 9930-9976 op. 4 hrs. 35 mins. F. 70 BO/4 hrs. rev. out 43 BO; rec. 60' SW; FP 620-1400; SIP 2020/30".
4 DST 9984-10015 op. 1 hr. 21 mins. rec. 106' drlg. mud; FP 0-50; SIP 1080/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Pet. Corp. - #6 - J. E. Stevens ELEV. 4219 DF
 LOC. 660'FNL & 1980'FEL
 Sec. 33, T.14-S. R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 112/9942-70	8 5/8-4154-1500	Yates 2616
2000 acid	5 1/2L.-4014- -10038- 660	Queen 3397
		S. And. 4108
		Glor. 5643
		C.F. 6362
		Tubb 6998
		Abo 7742
		W.C. 9075

SPO. 10-5-58 COMP. 11-14-58

I. P. F. 160 BO + 5 BXWPD, 23/64" ch.

GR. 41.8 GOR 1924 TP 250 CP pkr.

REMARKS

CONT'D. PAGE 2.

LEA, N.M. 33-14-33
 Amerada Pet. Corp. - #6 - J. E. Stevens.

K-171-58
 PAGE 2.

1 DST 9800-50 op. 4 hrs. gas 5 mins. rev. out 22 BO
 + 5 BW, rec. 45 BO & 45' XW; FP 190-1130; SIP
 2105/30".

2 DST 9923-72 op. 5 hrs. 8 mins. gas 6 mins. oil 1 hr.
 52 mins. F. 48 BO/3 hrs.; rev. out 25 BO & 2 BXW;
 rec. 30' oil; FP 255-945; SIP 2500/30".

3 DST 9975-10016 op. 4 hrs. rec. 1240' XW; FP 555;
 SIP 3290/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 COMPANY Amerada Petr. Corp. - #5 - Stevens ELEV. 4212 DF
 LOC. 1980'FSL & 660'FEL
 Sec. 33, T.14-S. R. 33-E
 10,000'

ACID OR SHOT	CASING RECORD	TOPS
	13 3/8- 295- 250	
	8 5/8-4159-1500	
	5 1/2-L.-4035- -10021- 800	

SPO. 8-20-58 COMP. -

I. P. F. 234 BO + 12 BXW/24 hrs., 24/64" ch.

GR. 42.2 GOR 1470 TP 150 CP pkr.

REMARKS

CONT'D. PAGE 2.

K-171-58
PAGE 2LEA, N.M. 33-14-33
Amerada Pet. Corp. - #5 - StevensDST 9802-39, op. 4 hrs, GS/4 min, rev out 26 BO / 12
BSW, rec. 10' oil, Gr. 37.4, 80' SW below sub, FP
2135-2165, SIP 2195/30"

Perf. 36/9814-23
 Perf. 56/9854-68
 Perf. 56/9882-96
 Perf. 72/9936-54; 1000 acid/all perfs; P. 170 bbls. LO &
 64 bbls. NO + 10 BAW/20 hrs., 24/64" ch.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-50

COMPANY Amerada Petr. Corp. - #4 - J. E. Stevens ELEV. 4212 DF

LOC. 1980' FNL & 660' FEL
Sec. 33, T.14-S, R. 33-E
10,000'

ACID OR SHOT	CASING RECORD	TOPS
1000 acid	13 - 296- 250	Anhy. 1506
Perf. 124/9862-93	8 - 4159-1500	Salt 1602
2 Perf. 84/9932-53	5 L. - 4034	B. Salt 2450
	- 9998- 800	Yates 2613
		Queen 3395
		S.A. 4105
		Glor. 5650
		Paddock 5965
		SEE "REMARKS"
		TP 9862
		10,000 L.
		PBD 9990

SPD 4-4-58

COMP 5-16-58

I. P. F. 345 BO + 42 BAW/24 hrs.;
28/64" ch.

GR. 41.8 GOR 928 TP 160 CP -

REMARKS TOPS CONT'D.: C.F. 6365; Tubb
7003; Abo 7743; W.C. 9081; Penn Reef
9363.

F. 172 BO & 21 BAW/12 hrs.

CO. LEA POOL WILDCAT STATE N.M. KROENLEIN 172

COMPANY Atlantic Refg. Co. - #1 - J.E. Stevens ELEV. 4214

LOC. 660' FNL & 660' FEL
Sec. 33, T.14-S, R. 33-E

ACID OR SHOT	CASING RECORD	TOPS
	13-3/8 - 424 - 250	A. 1510
	9-5/8 - 2617 - 600	S.(B.) 2470
		L., FCG 2600
		S.A. 2680
		Rd. Sd. 3410
		Gr. Br. 3900
		B. And. 4110
		C.F. 5690
		Glor. 5690 ?
		TP
		TD 8245
		PBD

SPD. 10-17-44

COMP. 2-2-45

I. P. D & A

GR. GOR TP CP

REMARKS Con't. Page #2

CO LEA POOL SAUNDERS STATE N.M. KROENLEIN 171-58
 OWDD
 COMPANY Amerada Pet. Corp. - #3 - J. E. Stevens ELEV. 4214 DF
 (fmly. Atlantic Pet. Co. - #1 - J.E. Stevens, SEE:
 LOC 660'FNL & PEL CARD #172 for orig. drlg.)
 Sec. 33, T. 14-S, R. 33-E
 OTD 3245' I.; 10,100' test

ACID OR SHOT	CASING RECORD	TOPS
	7 -4196- 800	Anhy. 1514
	5 -4108	Salt 1610
	-10020- 600	Yates 2603
		Red sand 3397
		S.A. 4108
		Paddock 5957
		C.F. 6373
		Tubb 7002
		Abo 7748
		W.C. 9080
SPD 1-19-58 COMP 2-13-58		9890
		10,020 L.
		9971

REMARKS: F. 197 BO + 2 BXW/24 hrs.
 G# 42. GOR 1023 14/64" ch. CP -
 CO 1701'; Perf. 20/9993-98 swb.
 dry; A-500. Rec. XW; sqz. perf. 9993-98
 W/75 sx.; CO 9971; Perf. 64/9890-9906;
 80/9942-62; A-1000.

LEA, NEW MEXICO 33-14-33
 Atlantic Refg. Co. - #1 - J.E. Stevens

K-172
 Page #2

Core 3415-25, (2'2") Pd. shly sd. TD 4993 dol. prep to core
 Core 4690-4705 (15') top 5' tan dol scat F por. bldg. 0, 6'
 tan col. sect Andy inc. & 0 sta 4' Andy & strks dol.
 Core 4786-94, (8') br dol anhy inc. sul odor.
 DST 4690-4794, thru 6" DP op 30", rec 10' 6" H.
 Core 4993-5006, (7 1/2) drk br dol scat anhy inc. fine por & alstn
 Core 5006-15, (3') dns drk br dol NS
 DST 4960-5015, 5/8 HPC, op. 1 hr & 15", rec. 210' alty fl. &
 190' sul str. drlg in L, & sh @ 8155

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-59

COMPANY Shell Oil Co. - #1 - State SC ELEV. 4221

LOC 660'FNL & 1980'FWL
 Sec. 33, T. 14-S, R. 33-E
 10,100'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 56/9854-9882	13 3/8- 342- 375	Abo 7772
2000 acid + more	8 5/8-4153-1750	W.C. 9175
	5 1/2-10110-200	Penn. 9785

SPD 6-13-59 COMP 8-9-59

I. P. P. 120 BO/24 hrs. + 278 BXW

G# 43. GOR 1480 TP - CP
 REMARKS: Perf: 40/9854-64; 16/9878-82; 24/
 9900-26; 68/9982-99; 16/10004-08).

TD 9854
 TD 10,112 L.
 SPD 9891

Co. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-60

COMPANY Shell Oil Co. - #2 - Stato SC

ELEV 4230

LOC. 1980' FNL & 660' FWL

Sec. 33, T.14-S. R. 33-E

10,100' Penn.

ACID OR SHOT

Perf.

9861-9887

500 G. Acid

CASING RECORD

13 3/8- 304- 350

8 5/8-4170- 668

5 1/2-10096-200

TOPS

Abo 7720

W.C. 9173

Penn 9786

SPD. 3-26-60 COMP 6-3-60

I. P. F. 300 BOPD + 155 BW; 1" ch

GR 39 GOR 1254 TP 100 CP Pkr.

REMARKS

TP 9861

TD 10,100 Dolo.

PBO 10,050

Co. LEA

POOL SAUNDERS

STATE N.M. KROENLEIN 172-60

COMPANY Cosden Pet. Corp. - #2 - State "B"

ELEV 4224

LOC. 2310' FSL & FWL

Sec. 33, T.14-S. R. 33-E

10,150'

ACID OR SHOT

Perf.: 20/9956-61

500 acid

13 3/8- 355- 350

8 5/8-4150-1000

5 1/2-9980- 300

S. ind. 4090

Glor. 5627

Tubb 6995

Abo 7665

Hueco 9166

Penn. 9800

SPD. 12-7-59 COMP 1-16-60

I. P. F. 685 BO/24 hrs., 24/64" ch.

GR 42. GOR - TP 300 CP 150

REMARKS

9956

9980 L.

CONT'D. PAGE 2.

LEA, N.M. 33-14-33

Cosden Pet. Corp. - #2 - State "B"

K-172-60

PAGE 2.

DST 9820-68 op. 2 hrs. 15 mins., gas 5 mins., Wb 1 hr. 43 mins., GCM 2 hrs. rev. out 9047' oil; rec. 50' sul.wtr.; FP 912-1833; SIP 2467/30".

DST 9890-9955 op. 2 hrs. rec. 50' G&CC sul.wtr.; FP 495; SIP 1080/30".

DST 9960-80 op. 2 hrs. 25 mins., gas 5 mins. oil 48 mins. F. 50 10/1 hr. 37 mins. rev. out 9935' oil; FP 1350-1930; SIP 2378/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 172-
 OWWO
 COMPANY American Petrofina Co. of Texas - #1 - State
 "B" (fmly. Cosden Pet. Corp. - ELEV. 4223
 LOC. 1650' FNL & 2310' FWL #1 - State "B", CARD DF
 Sec. 33, T. 14-S, R. 33-E #172-59)

PAY STIMULATION	CASING	TOPS
Perf: 9881- 9891 1500 acid	old 5 1/2-10053-300	Yates 2614 Queen 3392 S. And 4100 Glor 5645 Tubb 7000 Abo 7730 Penn 9632
SPD re -	COMP. 8-10-63	
P. P. 60 BO + 20 BW/24 hrs.		
3R. - GOR - TP CP		TP 9881(Penn.)
REMARKS: BP/9952'; Perf: 15/9881-86, 9/9888-91. (Prior to W0, P. 12 BO & 200 bbls. wtr.).		OTD 10,053 L. PBD 9952

LEA, N.M. 33-14-33
 Cosden Pet. Corp. - #1 - State "B"

K- 172-59
 PAGE 2.

DST 9880-9930 op. 3 hrs. rev. out 1500' HO2GCM + 93'
 XW; rec. 180' XW, 3' oil; FP 745-1280; SIP
 3570-2230/30".
 DST 9942-9988 op. 1 hr. 45 mins. F. 15 BO/1 hrs. rev.
 out fair SO; rec. 150' XW; FP 1725-2470; SIP
 2650/30".

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 172-59

COMPANY Cosden Pet. Corp. - #1 - State "B" ELEV. 4223

LOC. 1650' FNL & 2310' FWL
 Sec. 33, T. 14-S, R. 33-E
 10,100'

ACID OR SHOT	CASING RECORD	TOPS
Perf. 24/9974-80 500 acid	13 3/8- 306- 325 8 5/8- 4178-2000 5 1/2-10053-300	Yates 2614 Queen 3392 S. And. 4100 Glor. 5645 Tubb 7000 Abo 7730 Penn. 9632
SPD 3-21-59	COMP 5-20-59	
I. P. F. 260 BO/24 hrs., 26/64" ch.		
GR. 42. GOR 775	TP 375	CP 0
REMARKS / DST 9845-74 op. 3 hrs. 43 mins. F. 7 BO/1 hr. rev. out 63 BO + 63 BXW; rec. 180' XW; FP 1505-2180; SIP 2360/30".		
CONT'D. PAGE 2.		

TP 9974
 TD 10,053 L.
 PBD

Co. LEA POOL SAUNDERS STATE N.M. KRUGENLEIN 172-53
 COMPANY Fish Northwest Constructors Inc. - #4 - ELEV. 4212 DF
 Maud Saunders "A"
 Loc. 1980' FNL & 660' FWL
 Sec. 34, T.14-S. R. 33-E
 10,500'

ACID OR SHOT	CASING RECORD	TOPS
3500 acid/9866-9960	13 - 366- 375	Tubb 7057
	8 - 4295-2100	Abo 7773
	5 - 10010- 600	W.C. 9200

SPO. 12-6-57 COMP 1-26-58

I. P. F. 240 BO/24 hrs. + 24 BW; 3/8" ch.

GR. 41.6 GOR - TP 300 CP -

REMARKS

9866
 10,013 L.
 9980

CONT'D. PAGE 2.

LEA, N.M. 34-14-33 K-172-58
 Fish Northwest Constructors Inc. - #4 - Maude Saunders "A" PAGE 2.

DST 9830-9890, 980' WB op. 3 hrs. rec. WB + 40' oil;
 1' oil below sub; FP 635-1450; SIP 2180/1 hr.
 DST 9890-9955, 980' WB op. 2 hrs. gas 10 mins., rec.
 flow 19.22 bbls./fluid/1 hr.; rev. out 38 bbls.
 fluid mostly oil, 60' oil below sub; FP 800-1860;
 SIP 2585/1 hr.

CO 9980'

Perf. 136/9866-9900

Perf. 40/9910-20

Perf. 100/9935-60; A-3500.

Co LEA POOL SAUNDERS STATE N.M. KRUGENLEIN 172-51

COMPANY Fish Northwest Constructors Inc. - #3 - ELEV. 4216-D
 Maud Saunders "A"

Loc. 660' FNL & FWL
 Sec. 34, T.14-S. R. 33-E
 10,500'

ACID OR SHOT	CASING RECORD	TOPS
Perf: 9924-96	13 - 370- 250	Tubb 7054
Acid: 2000	8 - 4300-2300	Abo. 7768
	5 - 10016- 400	Waco 9177

SPO. 10-2-57 COMP 11-27-57

I. P. F. 360 BOPD

GR. 42.3 GOR - TP 350 CP

REMARKS

F. 45 BO/3 1/2 hrs.

9924
 10,016 L
 10,013

CONT'D. PAGE 2.

LEA, N.M. 34-14-33

K-172-57

PAGE 2.

Fish Northwest Constructors Inc. - #3 - Maud Saunders "A"

- 1 DST 9850-9895 op. 5 hrs. gas 23 mins. rec. 300' GCM,
22' oil, 3' XW; FP SIP
- 2 DST 9950-60 op. 2 hrs., gas 4 mins., mud 12 mins.,
oil 18 mins., flow 72 BO/2 hrs., 1/4" tbg. ch.;
FP; SIP
- 3 DST 9960-10010 op. 2 1/2 hr., rec. gas 4 mins., mud
27 mins.; oil 32 mins.
- 1 Perf. 96/9924-48; A-1000; flow 279 BO/24 hrs.; kill well
- 2 Perf. 120/9966-96; A-1000. flow 19 BO/1 hrs.; FTP 360#.

30-025-

CO.

LEA

POOL SAUNDERS- STATE N.M. KROENLEIN S-34-14-33

OWWO-FR&C

PERMO-PENN.

COMPANY

Skelly Oil Co. - #2 - M. H. Saunders 4210 DF

LOC.

(fmly. Fish Northwest Constructors - #2-A - ELEV. 4210 DF
660' FNL & 1980' FWL Maud Saunders)

Sec. 34, T. 14S, R. 33-E

PAY STIMULATION

PERF:

old 13 1/2- 361- 350
8 5/8-4295-2200
5 1/2-10030-150

CASING

TOPS

SPD.

Re-

COMP.

I. P.

P & A/1-13-71

GR.

GOR

TP

CP

(Orig. comp. as oil well/9-24-57)

TP

OTD 10,030

OPBD 10,007

CO. LEA

POOL SAUNDERS

STATE N.M. KROENLEIN 172-57

COMPANY Fish Northwest Constructors - #2-A -

ELEV. 4210 DF

Maud Saunders

LOC.

660' FNL & 1980' FWL

Sec. 34, T. 14S, R. 33E

10,500'

ACID OR SHOT

CASING RECORD

TOPS

13 -361- 350
8 -4295-2200
5 -10030- 150

Tubb 7056
Abo 7772
Waco 9197

SPD. 8-3-57

COMP. 9-24-57

I. P. P. 264 BO + 48 BW/24 hrs., 22/64" ch.

GR. 41.6 GOR 1923 TP 390 CP -

REMARKS:

TP 9856
TD 10,030 L.
OPBD 10,007

CONT'D. PAGE 2.

LEA, N.M. 34-14-33

K-172-57

PAGE 2.

Fish Northwest Constructors - #2-A - Maude Saunders

- ✓ DST 9815-60 op. 3 1/2 hrs., gas 3 mins., rec. 70% XW; 30' oil; fluid to surface in 15 mins., to pits in 1 hr., flow 98 BF/30 mins., 30% oil, 70% XW; rev. out 27 BF, 90' XW below sub; FP 1600-3100; SIP 3100/30".
- ✓ DST 9860-9905 op. 2 1/2 hrs., gas 3 mins., OCM 10 min.; oil 14 mins.; to pits 6 mins., flow 28 BO/1 hr.; pres.: ---. PB 10,007'
- ✓ DST 9974-10026 op. 2 1/2 hrs., gas 5 mins., mud 22 mins., oil 26 mins.; to pits 4 mins., flow 20 BO/2 hrs.; rev. out 16 BO; rec. 15' wtr. below sub; FP 615-1685; SIP 1975/30".
- ✓ Perf. 60/9856-71
- ✓ Perf. 60/9875-90. TD 10,030 L.; PB 10,007; A-1000/9856-9890; Flow 10 BO/1 hrs., 1/4" ch.; TP 480#.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-58

COMPANY Shell Oil Co. - #8 - state "A"

ELEV. 4208 DF

LOC. 990'FNL & 2310'FEL
 Sec. 34, T.14-S, R. 33-E
 10,000'

ACID OR SHOT

Perf:
 64/9970-86
 16/9994-98
 250 G. Acid

CASING RECORD

13 - 371- 400
 8 - 4223- 875
 5 - 10060- 200

SA
Penn.

TOPS

4123
 9760

BPD. 6-3-58 COMP. 7-14-58

I. P. F. 296 BOPD & 79 BSW; 1/2" ch.

GR. 40.6 GOR 1328 TP 195 CP -

REMARKS

TP 9970
 TD 10,068 L.
 BPD 10,033

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-58

COMPANY Shell Oil Co. - #7 - State "A"

ELEV. 4208 DF

LOC. 1980'FNL & 2310'FEL
 Sec. 34, T.14-S, R. 33-E
 10,000'

ACID OR SHOT

Perf. 24/9850-56
 Perf. 24/9862-68
 Perf. 16/9873-77
 A-1000

CASING RECORD

13 - 366- 400
 8 - 4228- 901
 5 - 10057- 200

TOPS

Yates 2626
 Queen 3428
 Penrose 3714
 S.A. 4130
 Penn. 9760

BPD 4-24-58 COMP 6-30-58

I. P. F. 174 BO + 39 BXW/24 hrs.
1/2" ch.

GR. 40.4 GOR 1213 TP 50 CP 500

REMARKS

TP 9850
 TD 10,058 L.
 BPD 10,029

CONT'D. PAGE 2

LEA, N.M. 34-14-33
Shell Oil Co. - #7 - State "A"

K-174-58
PAGE 2

/ DST 9750-9900, op 2 hrs. 20 mins., gas 5 mins., mud 20 mins., oil 50 mins., pits 30 mins., F. 16 BO/1 hr.; Grav. 40; GOR 2165; rev out full string oil; 100' O&GCM; 2400' MCXW; FP 985-1870; SIP 2255/30".
 > DST 9900-55, op 2 hrs., gas 5 mins., rev out 2100' oil; Grav. 36.7; rec. 480' GCM; FP 100-430; SIP 1855/30".
 > DST 9945-10,015, op 2 hrs., gas 4 mins., rev out 5845' GCM; 570' O&GCM; rec. 510' O&GCM; FP 370-1380; SIP 1820/30".
 > DST 9983-10,050, op 2 hrs., rec. 1070' SW; 160' mud; FP 125-615; SIP 2230/30".
 / Perf. 24/9916-22
 > Perf. 16/9936-40
 > Perf. 40/9963-73
 > Perf. 44/9977-88; A-500 swb. 34.8 BO + 16 BXW/11 hrs. PB 10,029'; SLM 10,050 = 10,053'; F. 50 BO/18 hrs.
 > Perf.: 9850-9877; A-1000.

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-58
OWDD PAGE 3.

COMPANY Shell Oil Co. - #6 - State "A"

ELEV. 4207

LOC. 990' FNL & 660' FEL
Sec. 34, T.14-S, R.33-E

PAY STIMULATION	CASING	TOPS
Perf: 9859- & OH 9865	old 5 1/2-9859-500	Yates 2650 Glor. 5708 Abo 7834 Penn 9770
SPD. re=	COMP. 8-21-63	
I. P. P. 33 BO + 45 BW/24 hrs.		
GR. = GOR 4897 TP CP		TP 9789-9905
REMARKS: OTD 9860' L. / Perf 12/9859-65,		NTD 9938
2000 acid; old perfs: 9789-9852'		PBD 9905

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-54

COMPANY Shell Oil - #6-A - State

ELEV. 4207'

LOC. 990' FNL & 660' FEL of sec.
Sec. 34-143-33E

ACID OR SHOT	CASING RECORD	TOPS
Acid 500 gals.	13-3/8 349 400 8-5/8 4193 2900 5-1/2 9859 800 2 9852	Yates 2650 Glor 5708 Abo 7834 Penn 9770
SPD. 10-16-54	COMP. 12-10-54	
I. P. F.174 BOPD / 44 BSW; 22/64" ok.		
GR. 40.5 GOR 1465 TP 300 Pkr CP 9800		TP 9836'
REMARKS		TD 9860' 1s.
		PBD 9854
CONT'D ON PAGE 2		

K-174

PAGE 2

LEA, N.M. SEC. 34-143-33E
Shell Oil - #6 -A - State

- / DST 9814-60 op 3 hrs. 40 mins, gas 8 mins, F. to pits 2 h
F. 20 BO 1 hr 15 mins, rev. out 60 EF est 50% oil,
50% SW. Rec. 10' oil, 180' SW on top of tool.
FP 950-2500 35 mins, SIP 2770#
- 2 DST 9852-60 op 2 hrs. air sub leaked mud abv. subrec.
Rec. 5000' mud, 20' SW below sub. FP 2970-3015
15 min SIP 3015#
- / Perf 44/9836-47; Tr. 250 mud acid perfs. form wouldn't
bake acid.
Reperf 44/9836-47 Retrt 500 mud acid

CO. LEA POOL SAUNDERS STATE N.M. KROENLEIN 174-54

COMPANY Shell Oil - #5-A - State

ELEV. 4207'

LOC. 1980' WELL & 660' WELL of sec.
Sec. 34-143-33E

ACID OR SHOT
Acid 500 gals.

CASINO RECORD
15-3/8 349 400
3-5/8 4200 2250
5-1/2 9919 500
2 9872

TOPB
Abo 7940
Pena 9770

SPO. 7-10-54

COMP. 9-14-54

I. P. P. 273 BOPD / 30 EW, 18/64" ck.

GR. 40 GOR 1621 TP 525 CP 1100

REMARKS

CONT'D ON PAGE 2

TP 9832'
TD 9920' 1s.
PUD 9910

LEA, N.M. SEC. 34-143-33E
Shell - #5-A - State

K-174

PAGE 2

- / DST 9748-9826 op 2 hrs. gas 15 min rec. 180' GCM, 120'
OAGCM, FP 150 30 min SIP 2125#
- 2 DST 9824-9850 op 1 hr 45 mins, gas 2 mins, F. 10 mins,
clean pits 20 mins, F. 90 BO 1 hr 15 mins, GOR 837;
Rev. out 1980; rec. below 800' HOCH, FP 2175 15
min SIP 2475#
- 3 DST 9850-85 op 2 hrs. gas 13 mins, rec. 200' oil, 600'
HOCH, FP 200 30 min SIP 1825#
- 4 DST 9900-20 op 2 hrs. gas 45 mins, rec. 6624' sulf wtr.
1438' HOCH; FP 1325 30 min SIP 2525#
- / Perf 16/9832-36;
- 2 Perf 40/9846-56 Trt. 500 9832-56; F. 104 EF 4 hrs. 16/64"
ck. cut 12% wtr.

30-025-
 CO. LEA POOL SAUNDERS - STATE N.M. S-34-14-33 KROENLEIN
 OWWO-FR&C PERMO-PENN
 COMPANY Skelly Oil Co. - #1 - M. H. Saunders
 (fmly. opr. by Fish, Northwestern ELEV. 4195 GR
 LOC. 1950' FNL & 1985' FWL Const.)
 Sec. 34, T.14-S, R.33-E

PAY STIMULATION	CASING	TOPS
PERF:	old 13 3/8- 366- 290	
	" 8 5/8-4309-2200	
	" 5 1/2-10030-600	
SPD. re - COMP.		
I. P.	P & A/1-8-72	
GR. GOR TP CP		TP
(Orig. comp. 8-14-57 as oil well)		OTD 10,030
		PBD

LEA SAUNDERS N.M. 172-57
 Fish, Northwestern Constructors Inc. - 4209 DE
 #1 - "X" - Maud Saunders A
 1950' FNL & 1985' FWL
 Sec. 34, T.14-S, R. 33-E
 10,500'

13	- 366- 290	Tubt	7063
8	-4309-2200	Abo	7777
5	-10030- 600	N.C.	9206
		Perm. Pay	9808

5-8-57 8-14-57

P. 212 30 + 3 BSW/24 hrs., 1/2" ch.

38. - 400 plcr. 9914
 10,030 L.
 CO 10,014

CONT'D. PAGE 2.

LEA, N.M. 34-14-33 K-172-57
 Fish, Northwestern Const. Inc. - #1 - Maud Saunders "X" A
 PAGE 2.

1/DST 9500-53 op. 1 hr., rec. 350' mud; PP 70-140; SIP
 215/30".
 2/DST 9800-75 op. 4 hrs. 10 mins., rec. 4140' HORIZON; PP
 545-1310; SIP 1565/30".
 3/DST 9875-9925 op. 5 hrs. 15 mins., rec. gas 5 mins.,
 oil 3 hrs. 10 mins., P. 11 30/2 hrs.; rev. out 5 00;
 PP 645; SIP 1565/30".
 4/DST 9925-10000 op. 4 hrs. 53 mins., gas 4 mins.; flow to
 pits 27 mins.; flow to tanks 4 hrs., 61 30/4 hrs.;
 PP 645-1075; SIP 1915/30". CO 10014', SI
 1/Perf. 120/9914-14
 2/Perf. 120/9962-92; A-1000 all perfs.