

CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS

GUADALUPE PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

April 10, 1986

HAND DELIVERED

R. L. Stamets, Director
Oil Conservation Division
New Mexico Department of
Energy and Minerals
State Land Office Building
Santa Fe, New Mexico 87501

Case 8882

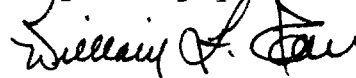
Re: Application of Yates Petroleum Corporation for
Salt Water Disposal, Lea County, New Mexico.

Dear Mr. Stamets:

Yates Petroleum Corporation requests that a case be docketed for hearing before a Division Examiner on April 30, 1986, for consideration of the above-referenced application. Enclosed is an original and one copy of OCD Form C-108 with attachments. Copies of this application have been sent to the Oil Conservation Division office in Hobbs and, additional copies have been sent by certified mail to all leasehold operators within one-half mile of the subject well and the surface owner.

Your attention to this request is appreciated.

Very truly yours,



William F. Carr

WFC/cv
enclosure

cc: (w/o enclosure)
Mr. Randy Patterson
Mr. Albert R. Stall
Yates Petroleum Corp.
207 South Fourth Street
Artesia, New Mexico 88210



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1331

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

April 7, 1986

To: Offset Operators

Re: Freeman "ACF" No. 1
660' FSL & 660' FWL
Sec. 22, T.16S., R.37E.
Lea County, New Mexico

Gentlemen:

Yates Petroleum Corporation is proposing to convert the referenced well from a producer to a water disposal well. Details of the proposed conversion are contained in the accompanying application.

The surface landowner and all offset leasehold operators within one-half mile of the well are being provided a copy of the application.

If you have any comments or questions, please feel free to contact me at (505) 746-3558.

Sincerely,

Albert R. Stall
Engineer

ARS/lab

cc: N.M.O.C.D., Santa Fe
N.M.O.C.D., Hobbs



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ARTESIA, NEW MEXICO 88210

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SEC. TREAS.

April 7, 1986

Mr. Elbert Shipp
B.E. Shipp Estate
1104 West Avenue J
Lovington, N.M. 88260

RE: Freeman "ACF" No. 1
660' FSL & 660' FWL
Sec. 22, T.16S., R.37E.
Lea County, New Mexico

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If you have any comments or questions, please feel free to contact me at (505) 746-3558.

Sincerely,

Albert R. Stall
Engineer

ARS/lab

cc: N.M.O.C.D., Santa Fe
N.M.O.C.D., Hobbs

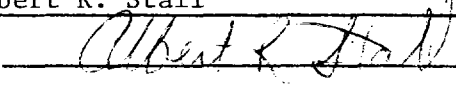
APPLICATION FOR AUTHORIZATION TO INJECT

FREEMAN "ACF" #1

Case 8882

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Yates Petroleum Corporation
Address: 207 S. 4th Street; Artesia, N.M. 88210
Contact party: Albert R. Stall Phone: (505) 746-3558
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Albert R. StallTitle EngineerSignature: 

Date: _____

- * 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 NMOCD District Office in

Hobbs.

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

FORM C-108 Supplement

Freeman "ACF" #1

I. Purpose:

To plugback this well from present PBTD of 11605' (CIBP @ 11640' capped with 35' cement) to 10900' and convert to salt water disposal status. Planned injection interval is 10050-10350'.

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

Attn: Albert R. Stall

III. Well Data:

See attached well data sheet.

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

Well and lease information posted through March 26, 1986. Map has a two-mile radius circle and a one-half mile radius circle around the subject well.

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

VII. Data on proposed operations:

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

(2). The system will be closed.

(3). The average injection pressure will be 0 to 2040 PSIG.

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

a. Shipp "ZI" #1
660' FNL & 2310' FNL
Sec. 27, T.16S., R.37E.
Cisco Canyon Formation--10975-11028'
Well produces too little water to obtain a sample.

b. Shipp "ZI" #2
660' FNL & 1100' FNL
Sec. 27, T.16S., R.37E.
Strawn Formation--11461-11475'
See attached analysis.

c. Shipp "ZI" #3
1470' FNL & 660' FNL
Sec. 27, T.16S., R.37E.
Strawn Formation--11439-11444'
See attached analysis.

- d. Hummingbird "ADM" St. #1
2086' FNL & 554' FEL
Sec. 8, T.16S., R.37E.
Strawn Formation--11524-11566'
See attached analysis.
 - e. Kochia "AAM" St. #1
990' FSL & 2310' FEL
Sec. 35, T.15S., R.36E.
Devonian Formation--13672-13676'
See attached analysis
- (5). Chlorides from water produced by the above-mentioned wells range from 26000 to 74000 parts per million. The subject well is not yet completed in the proposed injection zone and therefore, a water analysis is not available. However, water chlorides are expected to be within the range of the produced water and injection compatibility appears acceptable.

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

VIII. Geological data:

Injection zone: 10050-10350'

Lower Abo (Permian) 10050-10132'

- 20-40% Dolomite, white to brown, very fine to fine crystalline, with dead oil stain, silty in places
- 30-60% Limestone, tan to brown, very fine to fine crystalline, fossiliferous, with dead oil stain, silty in places
- trace-10% Chert, light blue, white, tan, light brown, subangular, opaline, translucent, fossiliferous

Uppermost Wolfcamp (Permian) 10132-10350'

- 90-100% Limestone, white to brown, very fine to fine crystalline, fossiliferous in places, dead oil stain in places; trace of intercrystalline and fracture porosity, yellow fluorescence, poor to fair dull green wet cut
- trace-10% Chert: as above
- trace-10% Dolomite: as above

The underground source of drinking water in this area is Ogallala formation of Tertiary age, the base of which is estimated at 275' at the location of the proposed disposal well. The Santa Rosa formation is also a possible fresh water aquifer with a base of approximately 1000'.

- IX. The planned completion program is to selectively perforate and stimulate with acid within the proposed injection interval 10050-10350'.
- X. CNL, FDC, DLL logs have been submitted to the NMOC, Hobbs District Office.

- XI. There are three water wells of record within a one-mile radius of the subject well. They are located in Unit O Sec. 22, Unit J Sec. 27, Unit J Sec. 28, T.16S., R.37E. Water analyses from samples obtained on March 31, 1986, are 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 offset operators listed on the attached page have been furnished a copy of this application by certified mail.

The surface owner listed below has been furnished a copy of this application by certified mail.

Mr. Elbert Shipp
B.E. Shipp Estate
1104 West Avenue J
Lovington, N.M. 88260

Additional data submitted:

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

OFFSET OPERATORS

Township 16 South, Range 37 East, NMPM
Lea County, New Mexico

Pennzoil Exp. and Prod. Co.
P.O. Box 1828
Midland, TX 79701
ATTN: Land Dept.

Moncor Trust Co., Trustee
for W.T. Reed
P.O. Box 70
Hobbs, NM 88240
ATTN: Ms. Terry Howard

Jeanne Van Zant Sanders
Sinclair Bldg., Suite 508
106 W. Fifth Street
Fort Worth, TX 76102

Harry J. Schafer, Jr., Trustee
P.O. Box 14667
Oklahoma City, OK 73113

Sun Exploration and Prod. Co.
P.O. Box 1861
Midland, TX 79702

Bill Seltzer
507 Petroleum Bldg.
Midland, TX 79701

Texaco, U.S.A.
P.O. Box 3109
Midland, TX 79701
ATTN: Land Dept.

Mr. James R. McCrory
P.O. Box 25764
Albuquerque, NM 87125

Petco Limited
P.O. Box 911
Breckenridge, TX 76024

Coates Energy Trust and
Elizabeth H. Maddux
P.O. Box 171717
San Antonio, TX 78217

J.H. Van Zant, II
1722 Commerce Bldg.
307 W. 7th
Fort Worth, TX 76102

Amerind Oil Co.
500 Wilco Bldg.
Midland, TX 79701

Ensearch Exploration, Inc.
P.O. Box 4815
Midland, TX 79704
ATTN: Land Dept.

Mr. James R. Woods
P.O. Box 1417
Socorro, NM 87801

Mrs. Mary K. Grisso
2328 N.W. 47th
Oklahoma City, OK 73112

Felmont Oil Corporation
P.O. Box 2266
Midland, TX 79702

Heritage Resources
Paragon Tower, Suite 1000
600 N. Marienfield St.
Midland, TX 79701

American Quasar Pet. Co.
One First City Center
Suite 1000
Midland, TX 79701

INJECTION WELL DATA SHEET

Yates Petroleum Corporation		Freeman "ACF"		
OPERATOR		LEASE		
#1	660' FSL & 660' FWL	Sec. 22	T. 16S.	R. 37E.
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

See attached schematics.

Tabular DataSurface Casing

Size 13 3/8 " Cemented with 475 sx.
 TOC Surface feet determined by circulation
 Hole size 17 1/2"

Intermediate Casing

Size 8 5/8 " Cemented with 1850 sx.
 TOC Surface feet determined by circulation
 Hole size 11"

Long string

Size 5 1/2 " Cemented with 1100 sx.
 TOC 6835 feet determined by bond log
 Hole size 7 7/8"
 Total depth 11850'

Injection interval

10050 feet to 10350 feet
 (perforated or open-hole, indicate which) perforated

Tubing size 2 7/8" lined with plastic set in a
 (material)
Guiberson Uni VI (plastic-coated) packer at 10000 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Lower Abo/Upper Wolfcamp
- Name of Field or Pool (if applicable) None
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? oil and/or gas test
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 11667-11687'
CIBP capped with 35' cement set at 11640'; 11467-11498' and 10973-11071 1/2' plan to
set CIBP at 10925' and cap with 35' cement
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. All production within the area of review is from the Northeast Lovington
Penn. The subject well has been producing from the interval 10973' to 11494'.
Closest production from other pools is from Casey Strawn and Lovington Paddock,

both approximately 1 1/2 miles south of the subject well. Casey Strawn production is from a depth of approximately 11400 feet, and Lovington Paddock production is from a depth of approximately 6200 feet.

TABULATION
Freeman "ACF" #1
Wells Within Area Of Review

Sec. 21, T.16S., R.37E.

- (1). C&K Petroleum Inc. Monteith #1 660' FSL & 660' FEL
Spudded 12-12-76. Completed 1-16-77 as a dry hole.
TD 11680'. Strawn. Casing and cement: 13 3/8" in 17 1/2"
hole set at 415' and cemented with 400 sacks, cement circu-
lated to surface; 8 5/8" in 11" hole set at 4327' and
cemented with 1950 sacks, cement circulated to surface;
7 1/8" hole to TD, no production casing was run. Well was
plugged per attached schematic.

Sec. 22, T.16S., R.37E.

- (2). Magnolia Petroleum Co. B.E. Shipp #1 1980' FSL & 1980' FWL
Spudded 5-3-53. Completed 10-18-53 as a dry hole.
TD 12540'. Casing and cement: 13 3/8" in 17 1/2" hole set
at 451' and cemented with 500 sacks, cement circulated to
surface; 9 5/8" in 12 1/4" hole set at 4820' and cemented with
2800 sacks, drilled to TD; no production casing was run. Well
was plugged per attached schematic.
- (3). Yates Petroleum Corp. Freeman "ACF" #1 660' FSL & 660' FWL
Spudded 4-2-85. Completed 5-23-85 in the Penn. TD 11850'.
Casing and cement: 13 3/8" in 17 1/2" hole set at 455' and ce-
mented with 475 sacks, cement circulated to surface; 8 5/8"
in 11" hole set at 4294' and cemented with 1850 sacks, cement
circulated to surface; 5 1/2" in 7 7/8" hole set at 11850' and
cemented with 1100 sacks, top of cement at 6835' as detected by
bond log. Perforated 11667' to 11687'. CIBP set at 11640' and
capped with 35' of cement. Producing perforations 10973' to
11498'. Plan to set CIBP at 10925' and cap with 35' of cement,
selectively perforate and treat within the interval 10050' to
10350', run plastic-coated tubing and packer and commence water
disposal.

Sec. 27, T.16S., R.37E.

- (4). Yates Petroleum Corp. Shipp "ZI" #1 660' FNL & 2310' FWL
Spudded 4-4-84. Completed 7-10-84 in the Penn. TD 11530'.
Casing and cement: 13 3/8" in 17 1/2" hole set at 450' and ce-
mented with 450 sacks, cement circulated to surface; 8 5/8" in
11" hole set at 4325' and cemented with 2350 sacks, cement
circulated to surface; 5 1/2" in 7 7/8" hole set at 11850' and
cemented with 1100 sacks, top of cement at 7465' as detected by
bond log. Perforate 11546' to 11551'. Retainer set at 11530'
and perforations 11546' to 11551' squeezed with 35 sacks of cement
into formation. Producing perforations are 10975' to 11028' and
11414' to 11493 1/2'.
- (5). Yates Petroleum Corp. Shipp "ZI" #2 660' FNL & 1100' FWL
Spudded 11-17-84. Completed 1-14-85 in the Penn. TD 11862'.
Casing and cement: 13 3/8" in 17 1/2" hole set at 455' and cemented
with 450 sacks, cement circulated to surface; 8 5/8" in 11" hole
set at 4300' and cemented with 2250 sacks, cement did not circulate

to surface, filled hole to surface with 5 cubic yards of Ready-Mix concrete; 5 1/2" in 7 7/8" hole set at 11862' and cemented with 450 sacks, top of cement at 9845' as detected by bond log. Perforated 11526' to 11532'. Retainer set at 11505' and perforations 11526-11532' squeezed with 80 sacks of cement into formation. Producing perforations are 11461' to 11475'.

- (6). Yates Petroleum Corp. Shipp "ZI" #3 1470' FNL & 660' FWL
Spudded 8-27-85. Completed 10-26-85 in the Penn. TD 11902'.
Casing and cement: 13 3/8" in 17 1/2" hole set at 437' and cemented with 450 sacks, cement circulated to surface; 8 5/8" in 12 1/4" hole set at 4319' and cemented with 2250 sacks, cement circulated to surface; 5 1/2" in 7 7/8" hole set at 11902' and cemented with 1305 sacks, top of cement at 7864' as detected by bond log. Producing perforations are 11439' to 11444'.

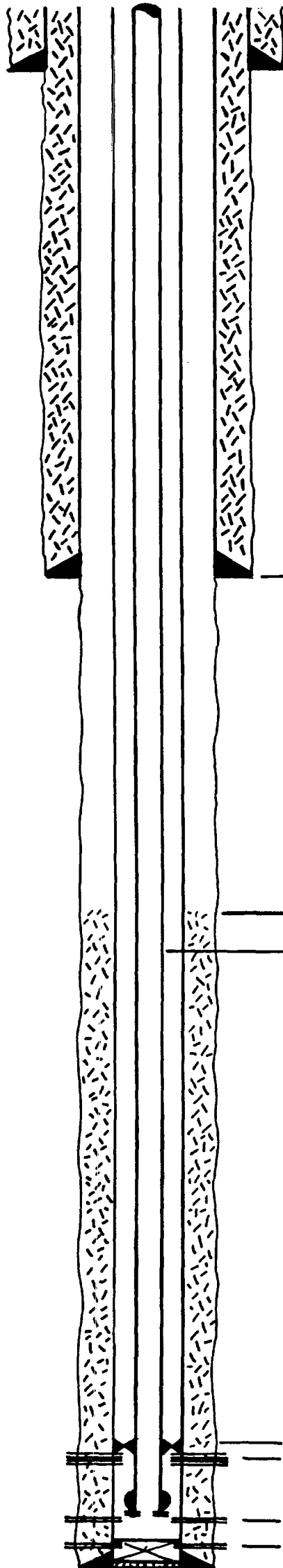
Sec. 28, T.16S., R.37E.

- (7). Amerind Oil Carter #1 810' FNL & 660' FEL
Spudded 2-28-85. Completed 4-16-85 in the Penn. TD 11775'.
Casing and cement: 13 3/8" in 17 1/2" hole set at 358' and cemented with 360 sacks, cement circulated to surface; 8 5/8" in 11" hole set at 4200' and cemented with 2175 sacks, cement circulated to surface; 5 1/2" in 7 7/8" hole set at 11592' and cemented with 300 sacks, top of cement at 10200' as detected by temperature survey. Producing perforations are 11361' to 11469'.

PRESENT WELL CONDITION

Elev. 3787.4' G.L.
3803.4' K.B.

Yates Petroleum Corporation
Freeman "ACF" #1
Sec. 22-16S-37E
660' FSL & 660' FWL
Permo Penn
Lea County, New Mexico
Spud Date: 4- 2-85
T.D. Date: 5-10-85
Compl. Date: 6-11-85



17 $\frac{1}{2}$ " hole to 455'
13 3/8" 54.5# J-55
ST&C @ 455'. Cmt'd
w/475 sx Class "C"
w/2% CaCl (circ. to surface)

11" hole to 4294'

8 5/8" 32# J-55 ST&C @ 4294'. Cmt'd w/1600 sx Lite
w/15#/sx salt & 1#/sx flocele; plus 250 sx Class "C"
w/2% CaCl (circ. to surface)

Top of cement @ 6835' (Bond Log)

2 7/8" 6.5# N-80 Tubing

Tubing Anchor @ 10,888', Seating Nipple @ 11,496',
Perf Sub @ 11,497'

Perf 10,973-11,071 $\frac{1}{2}$, Treated w/6000 gal 15% NEFE acid &
ball sealers

Perf 11,467-98, Treated w/2500 gal 15% NEFE acid & ball sealers

Perf 11,667-87, Treated w/2000 gal 15% NEFE acid & ball sealers

CIBP @ 11,640' w/35' cmt

7 7/8" hole to 11,850'

5 $\frac{1}{2}$ " 20# N-80 & 20# L-80 @ 11,850'. Cmt'd w/1100 sx Class "H"
w/0.7% Halad 9.

T.D. 11,850'

PROPOSED DISPOSAL WELL DIAGRAM

Yates Petroleum Corporation

Freeman "ACF" #1

Sec. 22-16S-37E

660' FSL & 660' FWL

Permo Penn

Lea County, New Mexico

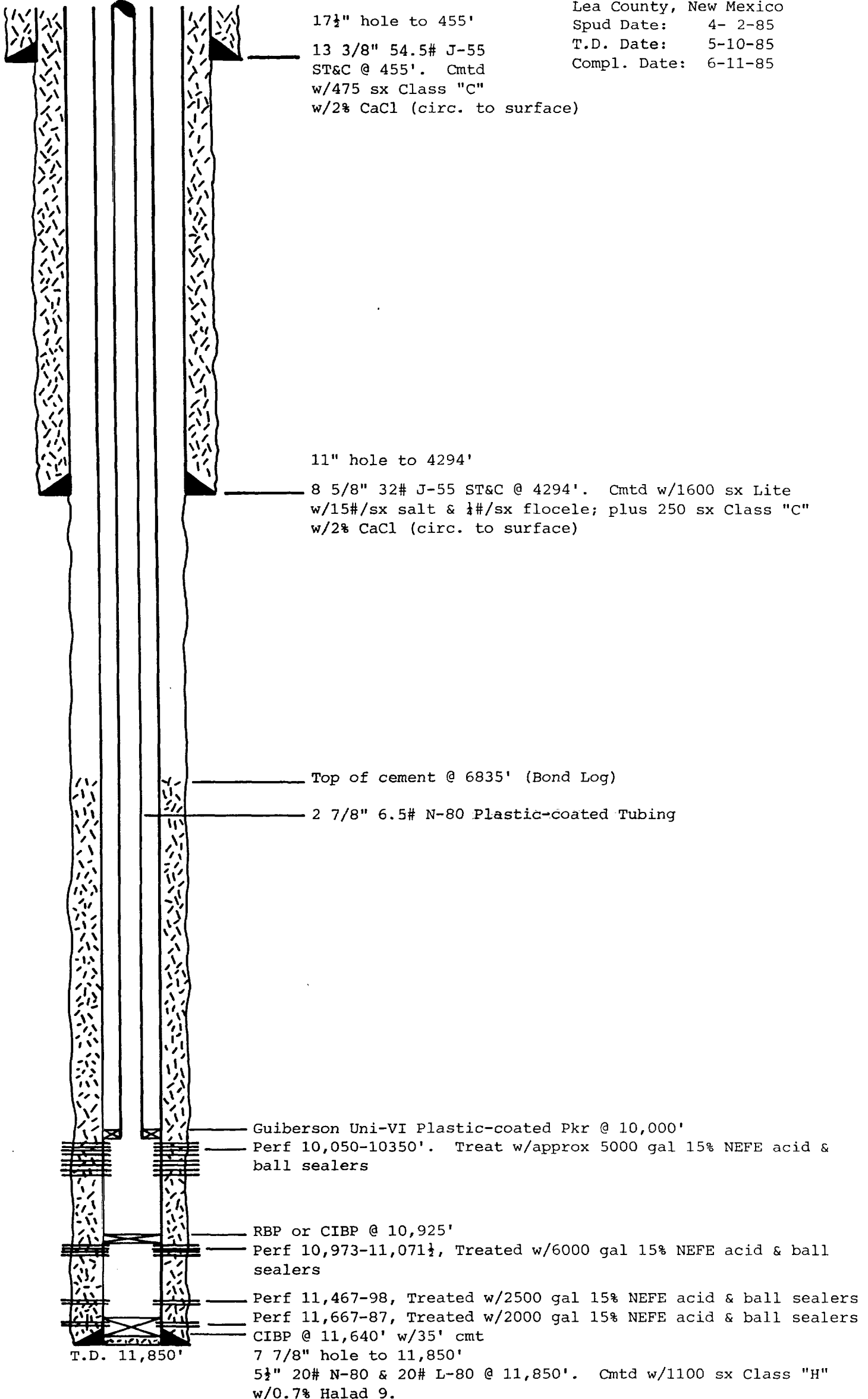
Spud Date: 4- 2-85

T.D. Date: 5-10-85

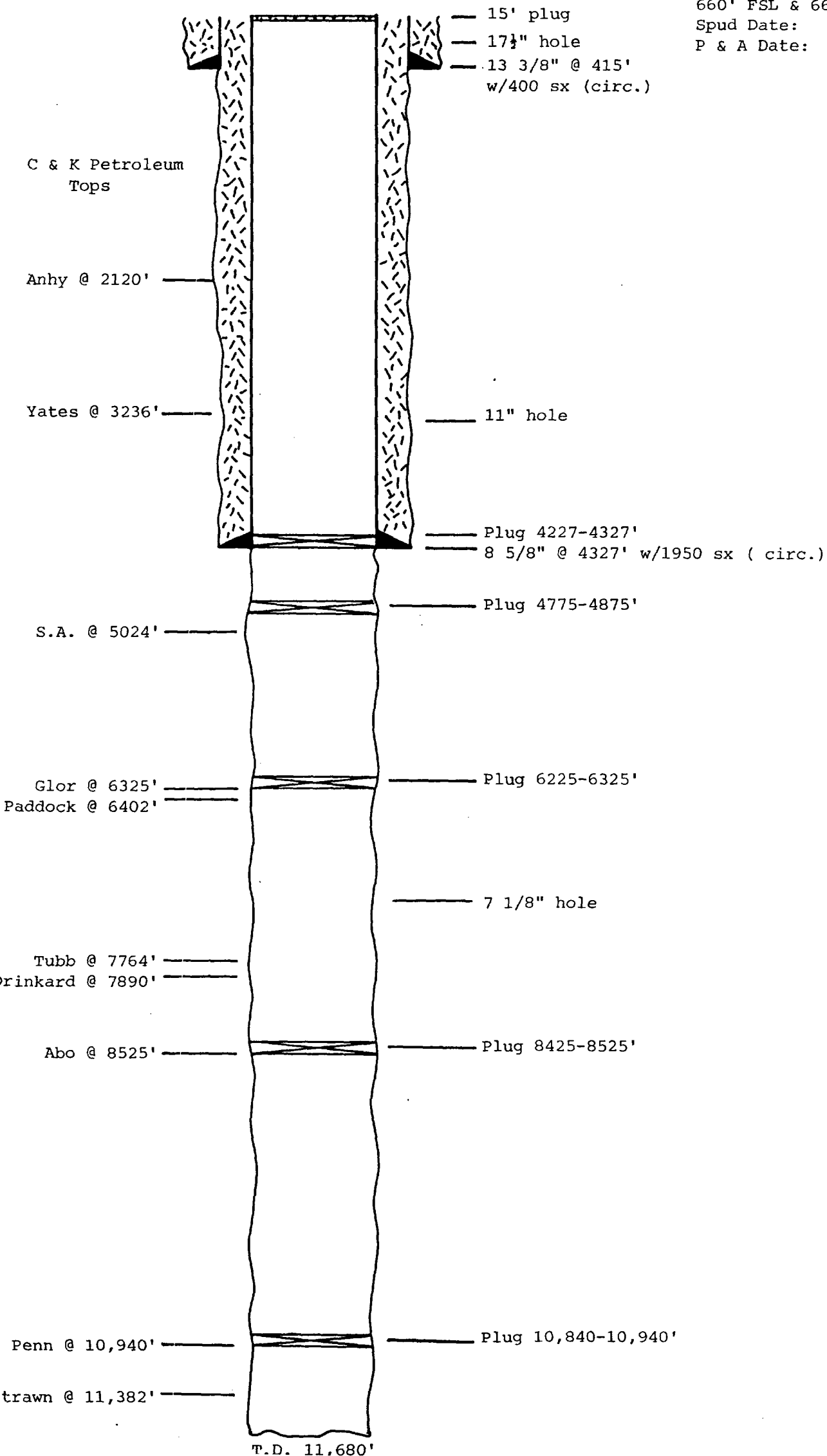
Compl. Date: 6-11-85

Elev. 3787.4' G.L.

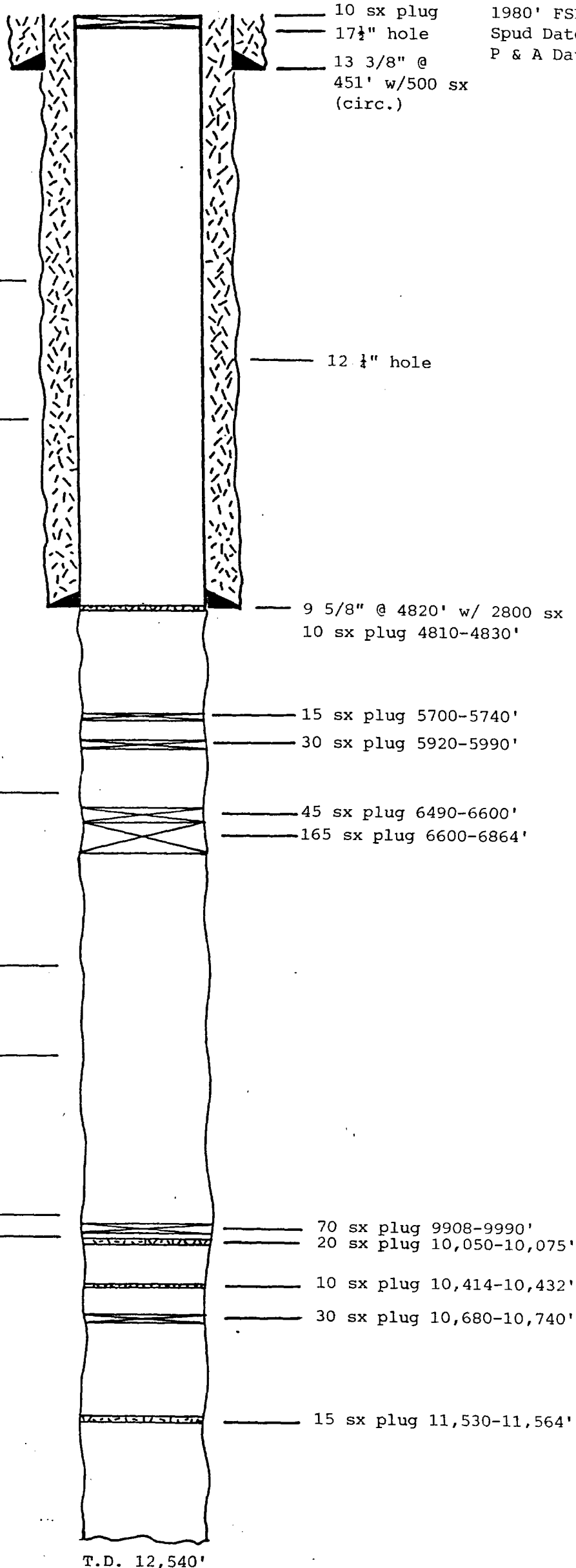
3803.4' K.B.



C & K Petroleum
Monteith #1
Sec. 21-16S-37E
660' FSL & 660' FEL
Spud Date: 12-12-76
P & A Date: 1-16-77



Magnolia Petroleum Co.
B.E. Shipp #1
Sec. 22-16S-37E
1980' FSL & 1980' FWL
Spud Date: 5- 3-53
P & A Date: 10-18-53



T.D. 12,540'

agnolia Petroleum
Tops

Anhy @ 2133'

Yates @ 3295'

S.A. @ 6360'

Tubb @ 7794'

Abo @ 8517'

W.C. @ 9830'

Penn @ 10,010'

LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

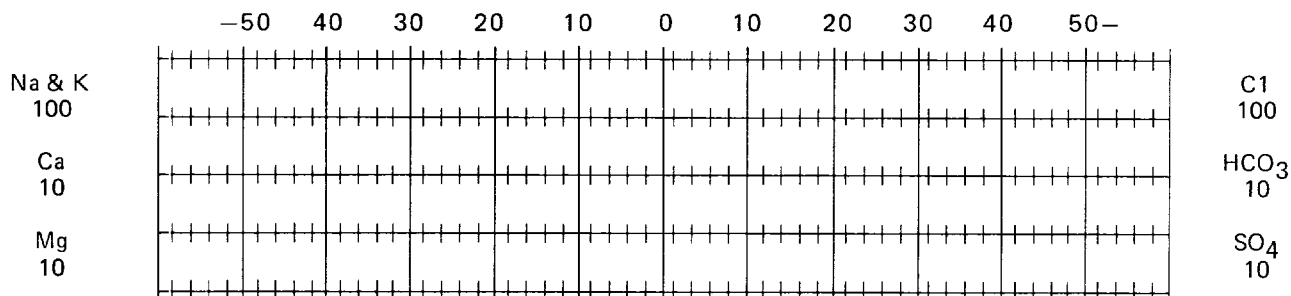
OPERATOR	Yates Petroleum Corporation	DATE SAMPLED	3/31/86
WELL	Freeman "ACF" #1	DATE RECEIVED	3/31/86
FIELD	NE Lovington Penn	SUBMITTED BY	Ray Stall
FORMATION	Cisco Canyon	WORKED BY	<i>Lloyd Bloomer</i>
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	10973-11687'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.070	AT	72 °F	TOTAL DISSOLVED SOLIDS	---	PPM
pH	6.5			RESISTIVITY	.12 at 79	PPM
IRON	Ferric strong/Ferrous strong			SULFATE	1200	PPM
HYDROGEN SULFIDE	None			BICARBONATE	10cc 1.0 610	PPM
HARDNESS	.1cc 7.8 78,000			CHLORIDE	1cc 2.7 54,000	PPM
CALCIUM	.1cc 5.0 20,000			SODIUM CHLORIDE	88,830	PPM
MAGNESIUM	.1cc 2.8 6,804		PPM	SODIUM	---	PPM
SODIUM & POTASSIUM	---		PPM	POTASSIUM	---	PPM
PHOSPHATE	---				0% KCL	

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

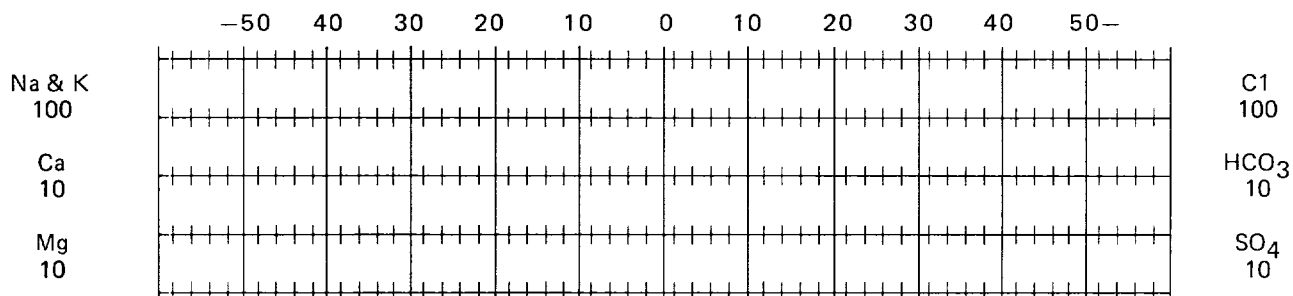
OPERATOR	Yates Petroleum Corporation	DATE SAMPLED	3/31/86
WELL	Shipp "ZI" #2	DATE RECEIVED	3/31/86
FIELD	NE Lovington Penn	SUBMITTED BY	Ray Stall
FORMATION	Strawn	WORKED BY	<i>Floyd Bloomer</i>
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	11461-11475'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.080	AT	74 °F	TOTAL DISSOLVED SOLIDS	---	PPM
pH	7.0			RESISTIVITY	.10 at 74°F	PPM
IRON	Ferric good/Ferrous strong			SULFATE	2,000	PPM
HYDROGEN SULFIDE	None			BICARBONATE	10cc 1.1 671	PPM
HARDNESS	.1cc 2.3 23,000			CHLORIDE	1cc 3.3 66,000	PPM
CALCIUM	.1cc 1.9 7,600			SODIUM CHLORIDE	108,570	PPM
MAGNESIUM	.1cc .4 972	PPM		SODIUM	---	PPM
SODIUM & POTASSIUM	---	PPM		POTASSIUM	---	PPM
PHOSPHATE	---				0% KCL	

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

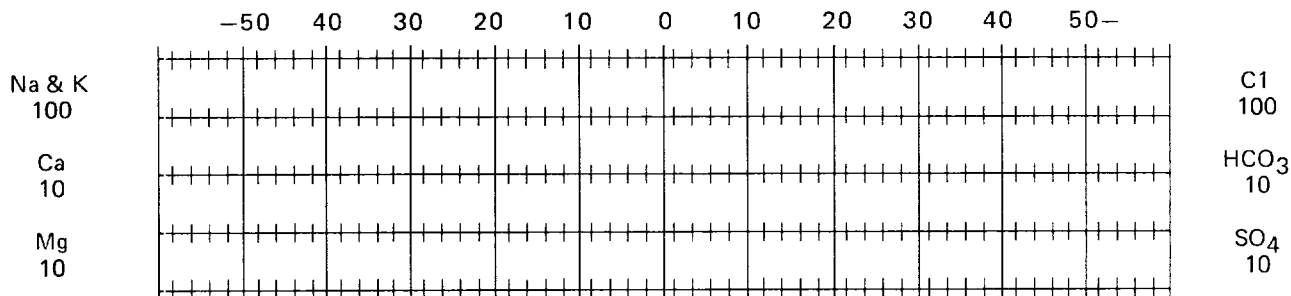
OPERATOR	Yates Petroleum Corporation	DATE SAMPLED	3/31/86
WELL	Shipp "ZI" #3	DATE RECEIVED	3/31/86
FIELD	NE Lovington Penn	SUBMITTED BY	Ray Stall
FORMATION	Strawn	WORKED BY	Lloyd Bloomer
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	11439-11444'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.095	AT	74	°F	TOTAL DISSOLVED SOLIDS	---	PPM
pH	7.0				RESISTIVITY	.09 at 74°F	PPM
IRON	Ferric faint/Ferrous good				SULFATE	2,000	PPM
HYDROGEN SULFIDE	None				BICARBONATE	10cc 1.2	732 PPM
HARDNESS	.1cc 2.4	24,000			CHLORIDE	3.7	74,000 PPM
CALCIUM	.1cc 1.2	4,800			SODIUM CHLORIDE	121,730	PPM
MAGNESIUM	.1cc 1.2	2,916	PPM		SODIUM	---	PPM
SODIUM & POTASSIUM	---		PPM		POTASSIUM	---	PPM
PHOSPHATE	---						0% KCL

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

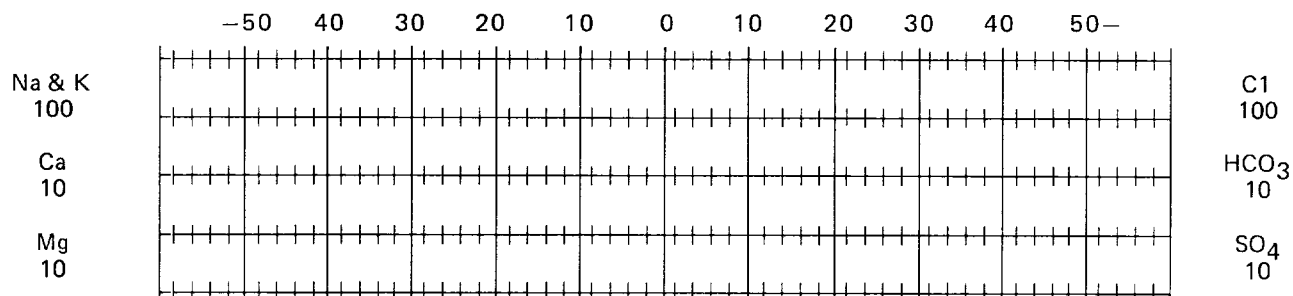
OPERATOR	Yates Petroleum Corporation	DATE SAMPLED	3/31/86
WELL	Kochia "AAM" #1	DATE RECEIVED	3/31/86
FIELD	Dean Devonian	SUBMITTED BY	Ray Stall
FORMATION	Devonian	WORKED BY	Lloyd Bloomer
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	13672-13676'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.030	AT	74	°F	TOTAL DISSOLVED SOLIDS	---	PPM
pH	7.0				RESISTIVITY	.20 at 74°F	PPM
IRON	Ferric no trace/Ferrous no trace				SULFATE	2,000	PPM
HYDROGEN SULFIDE	Good trace				BICARBONATE 10cc 1.2	732	PPM
HARDNESS .1cc 1.4	14,000				CHLORIDE 1cc 1.3	26,000	PPM
CALCIUM .1cc 1.0	4,000				SODIUM CHLORIDE	42,770	PPM
MAGNESIUM .1cc .4	972	PPM			SODIUM	---	PPM
SODIUM & POTASSIUM	---	PPM			POTASSIUM	---	PPM
PHOSPHATE	---					0% KCL	

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

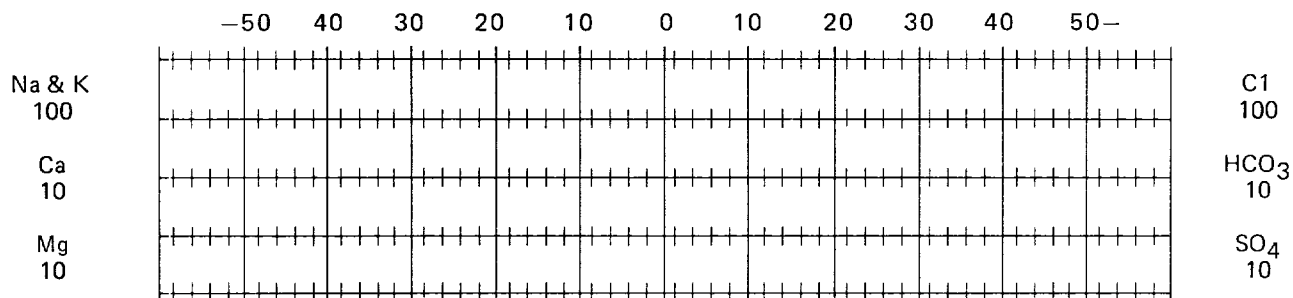
OPERATOR	Yates Petroleum Corporation	DATE SAMPLED	3/31/86
WELL	Hummingbird "ADM" #1	DATE RECEIVED	3/31/86
FIELD	NE Lovington Penn	SUBMITTED BY	Ray Stall
FORMATION	Strawn	WORKED BY	<i>Lloyd Blawie</i>
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	11524-11566'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.050	AT	74	°F	TOTAL DISSOLVED SOLIDS	---	PPM
pH	7.0				RESISTIVITY	.17 at 79°F	PPM
IRON	Ferric faint/Ferrous faint				SULFATE	1,500	PPM
HYDROGEN SULFIDE	None				BICARBONATE ^{10cc} 1.2	732	PPM
HARDNESS	.1cc 1.7	17,000			CHLORIDE ^{1.9}	38,000	PPM
CALCIUM	.1cc .5	2,000			SODIUM CHLORIDE	62,510	PPM
MAGNESIUM	.1cc 1.2	2,916	PPM		SODIUM	---	PPM
SODIUM & POTASSIUM	---		PPM		POTASSIUM	---	PPM
PHOSPHATE	---					0% KCL	

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

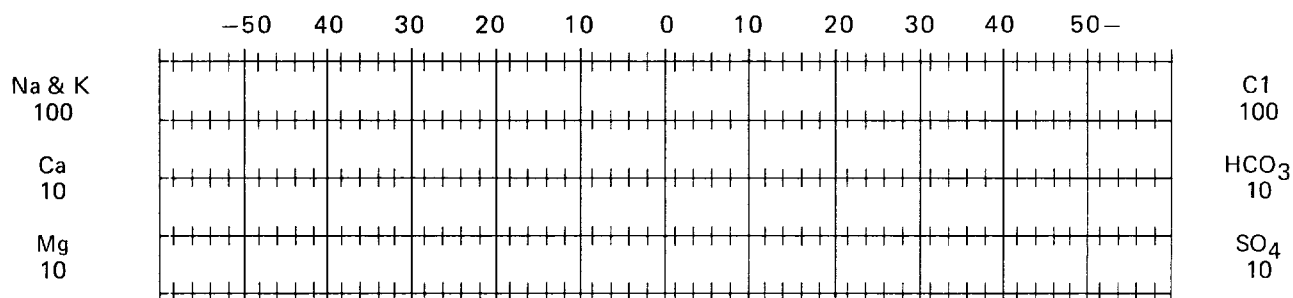
OPERATOR	Amerind Oil Co.	DATE SAMPLED	4-4-86
WELL	Carter #1	DATE RECEIVED	4-4-86
FIELD	N.E. Lovington Penn	SUBMITTED BY	Ray Stall
FORMATION	Strawn	WORKED BY	<i>[Signature]</i>
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	11361-11469'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.80	AT	70	°F	TOTAL DISSOLVED SOLIDS	135807	PPM
pH	7.0				RESISTIVITY		PPM
IRON	None/None				¹ SULFATE ⁸⁵	1,700	PPM
HYDROGEN SULFIDE					⁷ BICARBONATE	427	PPM
^{3.2} HARDNESS		32,000			^{3.5} CHLORIDE	70,000	PPM
^{1.5} CALCIUM		6,000			SODIUM CHLORIDE	115,150	PPM
MAGNESIUM		4,131	PPM		SODIUM	31,680	PPM
SODIUM & POTASSIUM		31,680	PPM		POTASSIUM	-0-	PPM
PHOSPHATE							

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

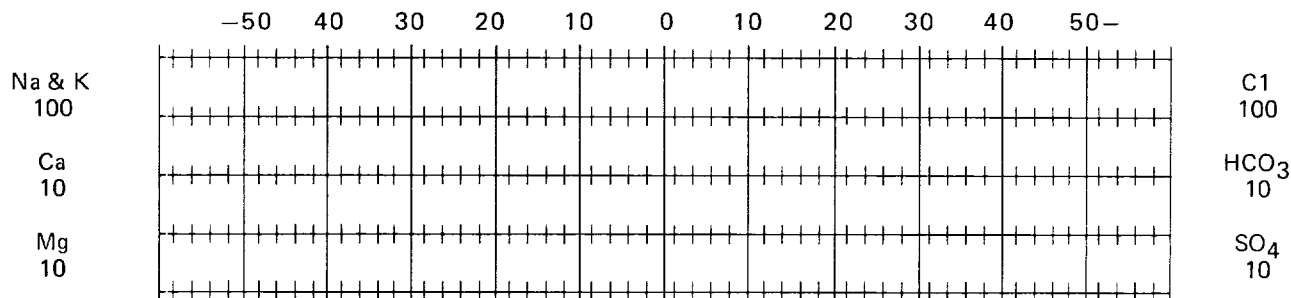
OPERATOR	DATE SAMPLED 3/31/86
WELL Fresh water well east of Freeman	DATE RECEIVED 3/31/86
FIELD "ACF" #1 in SW/4SE/4 of Sec. 22,	SUBMITTED BY Ray Stall
FORMATION T.16S,R.37E.	WORKED BY Lloyd Blaine
COUNTY Lea Co.	SAMPLE DESCRIPTION:
STATE New Mexico	
DEPTH	

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY 1.00 AT 72 °F	TOTAL DISSOLVED SOLIDS --- PPM
pH 6.5	RESISTIVITY .70 at 72 PPM
IRON None/None	SULFATE 0 PPM
HYDROGEN SULFIDE None	BICARBONATE 61 PPM
HARDNESS 2000	CHLORIDE 2000 PPM
CALCIUM 400	SODIUM CHLORIDE 3290 PPM
MAGNESIUM 243 PPM	SODIUM 401 PPM
SODIUM & POTASSIUM 401 PPM	POTASSIUM 0 PPM
PHOSPHATE ---	0% KCL

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

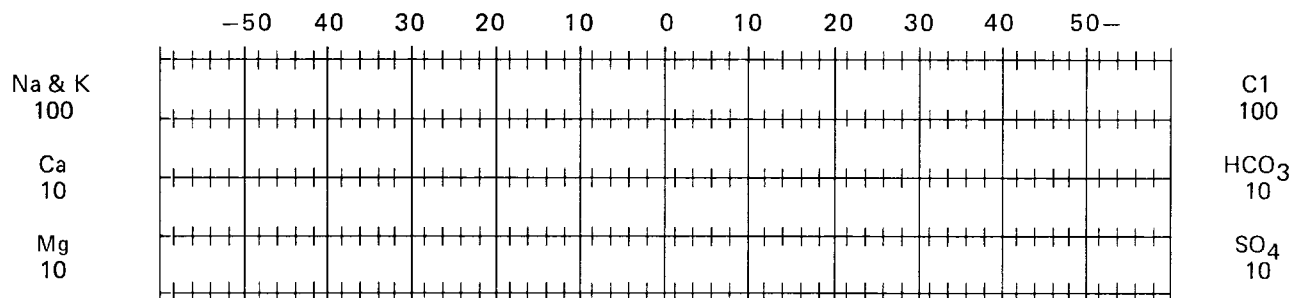
OPERATOR		DATE SAMPLED	4-4-86
WELL	Windmill Shipp Lease	DATE RECEIVED	4-7-86
FIELD	Unit J Sec.27,T.16S.,R.37E.	SUBMITTED BY	Ray Stall
FORMATION	---	WORKED BY	<i>J. P. Edson</i>
COUNTY	Lea	SAMPLE DESCRIPTION:	
STATE	New Mexico		
DEPTH	---		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.00	AT	70 °F	TOTAL DISSOLVED SOLIDS	9124	PPM
pH	6.5			RESISTIVITY	.90	PPM
IRON	None/None			SULFATE	-0-	PPM
HYDROGEN SULFIDE	None			^{.5} BICARBONATE	305	PPM
^{1.0} HARDNESS	10,000			^{.1} CHLORIDE	2,000	PPM
³ CALCIUM	1,200			SODIUM CHLORIDE	3,290	PPM
MAGNESIUM	1,701	PPM		SODIUM	-0-	PPM
SODIUM & POTASSIUM	-0-	PPM		POTASSIUM	-0-	PPM
PHOSPHATE						

REMARKS:

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



LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

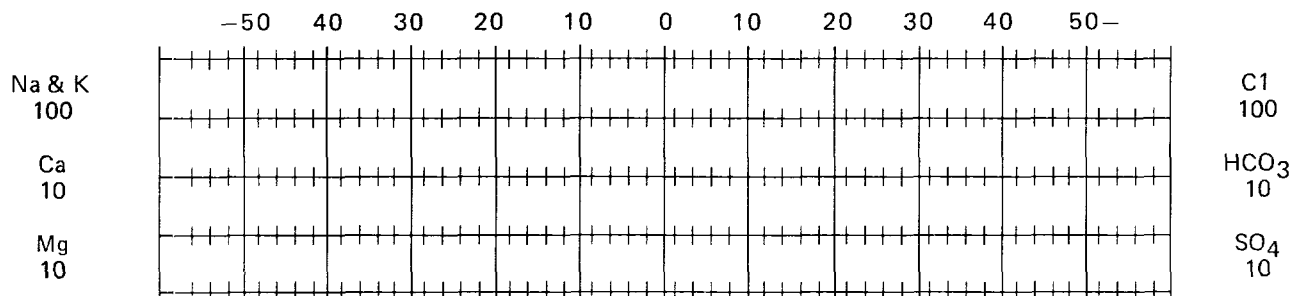
OPERATOR	DATE SAMPLED	4-4-86
WELL Windmill south of Carter #1	DATE RECEIVED	4-4-86
FIELD Unit J Sec.28,T.16S.,R.37E.	SUBMITTED BY	Ray Stall
FORMATION ---	WORKED BY	<i>J. P. [Signature]</i>
COUNTY Lea	SAMPLE DESCRIPTION:	
STATE New Mexico		
DEPTH ---		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.00	AT	70 °F	TOTAL DISSOLVED SOLIDS	10174	PPM
pH	6.5			RESISTIVITY	.8 @ 75°	PPM
IRON	None/None			SULFATE	-0-	PPM
HYDROGEN SULFIDE	No			BICARBONATE	244	PPM
HARDNESS	6,000			CHLORIDE	4,000	PPM
CALCIUM	1,200			SODIUM CHLORIDE	6,580	PPM
MAGNESIUM	729	PPM		SODIUM	-0-	PPM
SODIUM & POTASSIUM	-0-	PPM		POTASSIUM	-0-	PPM
PHOSPHATE						

REMARKS:

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



STATE OF NEW MEXICO
ENERGY 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	
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FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

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

1a. TYPE OF WELL		OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER TITE HOLE	
b. TYPE OF COMPLETION		NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER	
2. Name of Operator		Yates Petroleum Corporation	
3. Address of Operator		207 South 4th St., Artesia, NM 88210	
4. Location of Well		UNIT LETTER M LOCATED 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE OF SEC. 22 TWP. 16S RGE. 37E NMPM	
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
4-2-85	5-9-85	6-11-85	3787.5' GR
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
11850'	11605'		Rotary Tools 0-11850' Cable Tools
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made
11038-11498' Penn			No
26. Type Electric and Other Logs Run			27. Was Well Cored
CNL/FDC; DLL			No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
13-3/8"	54.5#	455'	17-1/2"
8-5/8"	32#	4294'	11"
5-1/2"	17 & 20#	11850'	7-7/8"
29. LINER RECORD		30. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT
			SCREEN
			SIZE
			DEPTH SET
			PACKER SET
31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
11038-11071 1/2' w/12 .42" holes		DEPTH INTERVAL	
11467-11498' w/10 .25" holes		AMOUNT AND KIND MATERIAL USED	
		11038-11071 1/2' w/2500 gal. 15% NEFE acid + 25 ball sealers.	
		11467-11498' Natural	
33. PRODUCTION			
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)
5-23-85	Flowing		Producing
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
6-11-85	24	30/64"	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.
295#	Pkr		393
34. Disposition of Gas (Sold, used for fuel, vented, etc.)		Test Witnessed By	
Vented		Ed Perry	
35. List of Attachments			
Deviation Survey, DST's			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.			
SIGNED <i>Granite Goodlett</i>		TITLE Production Supervisor	
		DATE 6-13-85	

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
Cisco							
T. Anhy	2153	T. Canyon	Shale 10920	T. Ojo Alamo		T. Penn. "D"	
T. Salt		T. Strawn	11294	T. Kirtland-Fruitland		T. Penn. "C"	
T. Salt		T. Atoka	11658	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3240	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4984	T. Simpson		T. Gallup		T. Ignacio Qtzite	
T. Glorieta	6288	T. McKee		Base Greenhorn		T. Granite	
T. Paddock	6362	T. Ellenburger		T. Dakota		T.	
T. Elinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	7788	T. Granite		T. Todilto		T.	
T. Drinkard	7960	T. Delaware Sand		T. Entrada		T.	
T. Abo	8280	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp LS	10132	T. Lwr Strawn	11444	T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)	10502	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	350	350	Surface, Redbeds	6800	7100	300	Dolomite, Anhydrite, Sand
350	455	105	Redbeds, Anhydrite	7100	7660	560	Dolo, Cht, Anhy, Sand
455	2019	1564	Redbeds	7660	7900	240	Dolomite, Anhydrite
2019	2198	179	Anhydrite	7900	8020	120	Dolomite, Cht, Sand
2198	3816	1618	Anhydrite, Salt	8020	8840	820	Dolomite
3816	4300	484	Anhydrite, Lime	8840	8960	120	Dolomite, Shale
4300	4560	260	Anhy, Shale, Sand, Lime	8960	9280	320	Dolomite
4560	4720	160	Shale, Anhy, Dolo.	9280	9680	400	Dolomite, Shale
4720	4960	240	Anhydrite, Dolomite	9680	9880	200	Dolo, Anhy, Lime, Shald
4960	5060	100	Anhy, Dolo, Sand, Shale	9880	10600	720	Dolo, Lime, Cht, Shale
5060	5260	200	Dolomite, Sand	10600	11620	1020	Lime, Shale, Chert
5260	5540	280	Dolomite	11620	11850	230	Lime, Shale, Cht, Sd, Dolo.
5540	6300	760	Dolo, Anhydrite, Chert				
6300	6600	300	Dolomite, Anhydrite, Sand				
6600	6800	200	Dolomite, Anhydrite				

YATES PETROLEUM CORPORATION

DRILL STEM TESTS

Freeman "ACF" #1 - Fee
Unit M, 660 FSL & 660 FWL
Section 22-T16S-R37E
Lea County, New Mexico

DST #1 6415-6463' (48'): TO 30"; SI 60"; TO 90"; SI 180". Opened tool with no blow. In 10 minutes annulus taking fluid. Closed tool. Reopened tool with no blow. Sampler: 7 psi, 500 cc fluid, 0.133 cfg. Recovery: 69.42' formation water with trace of oil on top. BHT: 120°. Pressures: IHP 2701; IFP 26-39; ISIP 79; FFP 39-52; FSIP 131; FHP 2780.

DST #2 8025-8071' (46') Drinkard: TO 30"; SI 60"; TO 90"; SI 180". Opened tool with 2 bubbles in bucket and no blow. Reopened tool with no blow. Recovery: 8'. Sampler: 4 psi, 26000 cc water. BHT: 130°F. Pressures: IHP 3569; IFP 26-26; ISIP 66; FFP 53-66; FSIP 66; FHP 3569.

DST #3 11016-079' (63') Lower Canyon: TO 30"; SI 60"; TO 90"; SI 180". Opened tool with good blow, increased to strong blow in 3 minutes. Opened on 1/4" choke with 75 psi. GTS in 13 minutes. Pressure increased to 220 psi on 1/4" choke after 30 minutes. Shut in, oil to surface in 11 minutes. Reopened on 1/4" choke with 180 psi. Pressure increased as follows: 15 minutes 240#, 30 minutes 245#, 37 minutes 420#, 45 minutes 550#, 60 minutes 700# and 90 minutes to 850#. Flowed oil at surface 23 minutes into final flow. Shut in with 950# on 1/4" choke. Recovery: flowed oil at surface, approximately 100 barrels oil recovered. Sampler: 1450 cc oil with gas cut, 2600 psi; 7.17 cft. BHT: 158°. Pressures: IHP 5146; IFP 685-1364; ISIP 4304; FFP 1409-3482; FSIP 4304; FHP 5146.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
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FILE	
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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State ☐	Fee ☒

5. State Oil & Gas Lease No.

3. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

b. 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

WIT LETTER C LOCATED 660 FEET FROM THE North LINE AND 2310 FEET FROMNE West LINE OF SEC. 27 TWP. 16S RGE. 37E NW/4

5. Date Spudded 4-4-84 16. Date T.D. Reached 5-4-84 17. Date Compl. (Ready to Prod.) 7-10-84 18. Elevations (DF, RKB, RT, GR, etc.) 3783.6' GR 19. Elev. Casinghead

20. Total Depth 11850' 21. Plug Back T.D. *11530' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 0-11850' Cable Tools

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

11414-11493 1/2' Strawn

25. Was Directional Survey Made

No

6. Type Electric and Other Logs Run

CNL/FDC; DLL

27. Was Well Cored

No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		40'	26"		
13-3/8"	54.5#	450'	17-1/2"	450	
8-5/8"	32#	4325'	11"	2350	
5-1/2"	20 & 17#	11850'	7-7/8"	1100	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	11337'	-

31. Perforation Record (Interval, size and number)

11472-493 1/2' w/7 .42" Holes
11436-441' w/10 .42" Holes
11414-64' w/15 .42" Holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11472-493 1/2'	w/1500 g. 15% acid
11436-441'	w/1500 g. 15% acid
11414-25'	w/1500 g. 15% acid
11414-493 1/2'	w/20000g. 20% acid, 10000g. Pad

33. PRODUCTION

Date First Production 7-8-84	Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping	Well Status (Prod. or Shut-in) Producing
Date of Test 7-10-84	Hours Tested 24	Choke Size Open
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate
		Oil - Bbl. 10
		Gas - MCF 10
		Water - Bbl. 40
		Gas-Oil Ratio 1000/1
		Oil Gravity - API (Corr.)

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

Used for lease fuel

Test Witnessed By

Bill Hansen

5. List of Attachments

Deviation Survey, DST's

6. 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 Franklin GoodlettTITLE Production SupervisorDATE 7-11-84

*Cement retainer set at 11530'.

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			
T. Rustler	2128	T. Canyon	10922	T. Ojo Alamo		T. Penn. "B"	
T. Salt	2216	T. Strawn	11320	T. Kirtland-Fruitland		T. Penn. "C"	
T. Salt	3139	T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3256	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4942	T. Simpson		T. Gallup		T. Ignacio Qtzite	
T. Glorieta	6247	T. McKee		T. Base Greenhorn		T. Granite	
T. Paddock	6350	T. Ellenburger		T. Dakota			
T. Blinberry		T. Gr. Wash		T. Morrison			
T. Tubb	7810	T. Granite		T. Todillo			
T. Drinkard	7989	T. Delaware Sand		T. Entrada			
T. Abo	8322	T. Bone Springs		T. Wingate			
T. Wolfcamp	9939	T. L. Strawn LS	11386	T. Chinle			
T. Penn.		T. Atoka Shale	11660	T. Permian			
T. Cisco (Dough/C)	10476			T. Penn. "A"			

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....
 No. 2, from.....to..... No. 5, from.....to.....
 No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

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

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

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	650	650	Surface, Redbeds	9950	10510	560	Dolomite, Chert, Lime
650	2582	1932	Redbeds, Anhydrite	10510	10870	360	Dolomite, Limestone
2582	4009	1427	Anhydrite, Salt Stringers	10870	11320	450	Shale, Dolomite, Lime
4009	4320	311	Anhydrite	11320	11850	530	Lime, Shale
4320	4550	230	Anhydrite, Shale, Sand, Dolo				
4550	5000	450	Anhydrite, Shale, Dolo.				
5000	5620	620	Dolomite				
5620	5750	130	Dolomite, Sand				
5750	5980	230	Dolomite				
5980	6200	220	Dolomite, Chert				
6200	6600	400	Dolomite, Limestone				
6600	6960	360	Dolomite				
6960	7300	340	Dolomite, Chert				
7300	7760	460	Dolomite				
7760	8120	360	Dolomite, Sand, Lime				
8120	9950	1830	lomite				

YATES PETROLEUM CORPORATION

DRILL STEM TESTS

Shipp "ZI" #1
Unit C, 660 FNL & 2310 FWL
Sec. 27-T16S-R37E
Lea County, New Mexico

DST #1 - 11424-11513' (89') Lower Strawn: TO 30"; SI 60"; TO 90";
SI 180". Tool open with weak blow increasing to good blow. Open
to 1/4" choke. GTS in 35 minutes. Tool opened with good blow.
Pressure increasing throughout. Recovery: 352' oil, 93' mud cut
oil, 373' mud (total 818'). Sampler: 250#, 1.812 cfg; 200 cc oil.
Pressures: IHP 5189/5259; IFP 92/136; FFP 138/182; ISIP 3688/3726;
IFP2 161/182; FFP2 275/318; FSIP 3283/3325; FHP 5189/5259. BHT: 164°. Oil Gravity 41.45 @ 75.5°.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-105
Revised 10-1-78

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a. TYPE OF WELL						7. Unit Agreement Name	
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐						8. Farm or Lease Name	
b. TYPE OF COMPLETION						Shipp ZI	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐						9. Well No.	
2. Name of Operator						2	
Yates Petroleum Corporation						10. Field and Pool, or Wildcat	
3. Address of Operator						NE Lovington Penn	
207 South 4th St., Artesia, NM 88210							
4. Location of Well							
UNIT LETTER <u>D</u> LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1100</u> FEET FROM						12. County	
THE <u>West</u> LINE OF SEC. <u>27</u> TWP. <u>16S</u> RGE. <u>37E</u> NMPM						<u>Lea</u>	
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)	
11-17-84		12-18-84		1-14-85		3786.5' GR	
19. Elev. Casinghead		20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many	
		11862'		11475'		23. Intervals Drilled By	
						Rotary Tools ☒ Cable Tools ☐	
24. Producing Interval(s), of this completion - Top, Bottom, Name						25. Was Directional Survey Made	
11461-475' Strawn						No	
26. Type Electric and Other Logs Run						27. Was Well Cored	
CNL/FDC; DLL						No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
13-3/8"	54.5#	455'	17-1/2"	450 sx			
8-5/8"	32#	4300'	11"	2250 sx			
5-1/2"	17#	11862'	7-7/8"	450 sx			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	11410'	11410'
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
11461-475' w/10 .42" Holes				DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 11461-475' w/500 g. 15% acid.			
33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
1-11-85		Flowing				Producing	
Date of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
1-14-85	24	40/64"		449	150	Trace	334/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
90#	Pkr		449	150	Trace	39°	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
Vented - Will be sold						Ed Perry	
35. List of Attachments							
Deviation Survey; DST's							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED <u>Francis Goodlett</u>				TITLE <u>Production Supervisor</u>		DATE <u>1-31-85</u>	

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
Rustler	2177						
T. Anhy		T. Canyon	10900	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11226	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	11634	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3256	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4968	T. Simpson		T. Gallup		T. Ignacio Qtzite	
T. Glorieta	6251	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinberry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	7755	T. Granite		T. Todilto		T.	
T. Drinkard	7970	T. Delaware Sand		T. Entrada		T.	
T. Abo	8300	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp Lm	10114	T. Lwr Strawn	11320	T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)	10466	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	1860	1860	Surface, Redbeds				
1860	3924	2064	Redbeds, Anhydrite				
3924	4400	476	Anhydrite				
4400	4960	560	Anhydrite, Dolomite, Sand				
4960	7250	2290	Dolo, Tr. Chert & Shale				
7250	7830	580	Dolomite				
7830	8090	260	Dolo, Sand, Shale, Lime				
8090	8800	710	Dolomite				
8800	8970	170	Dolomite, Shale				
8970	9300	330	Dolomite				
9300	9410	110	Dolomite, Shale				
9410	9920	510	Dolomite				
9920	10880	960	Dolomite, Lime, Chert				
10880	11130	250	Lime, Shale, Chert				
11130	11862	732	Lime, Shale				

YATES PETROLEUM CORPORATION

Shipp "ZI" #2 - Fee
Unit D, 660/N 1100/W
Sec. 27-T16S-R37E
Lea County, New Mexico

DRILL STEM TESTS

DST #1 6386-6469': TO 30"; SI 60"; TO 90"; SI 180". Tool opened with very weak blow. After 5 minutes, had no blow. Reopened with weak blow. In 5 minutes increased to 3" in bucket. In 10 minutes, had decreased to 2" in bucket. Started getting a smell like gas thru the bubble hose. On a 1/4" choke could not get enough volume to burn. No flare at the pit. RECOVERY: 15' of slightly salty water (looks like drilling fluid). SAMPLER: 22 cc fluid, 17 psi, .0479 cfg. PRESSURES: IHP 2897; IFP 72-90; ISIP 145; FFP 72-90; FSIP 199; FHP 2879; BHT: 117°.

DST #2 11448-11504' (56'): TO 30"; SI 160". Tool opened at 7:00 AM with weak blow. Opened as follows:

7:05 AM	7 ounces	7:20 AM	6-1/2#
7:10 AM	1-3/4#	7:25 AM	9#
7:15 AM	4#	7:30 AM	12#

Closed tool. In 11 minutes had gas to surface. Note: Had leak on swivel on top of drill pipe. Change out. When tool was opened, formation either gave way or packers failed. COOH, laying down test tools.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-105
Revised 10-1-78

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

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

7. Unit Agreement Name

8. Farm or Lease Name
Shipp "ZI"

9. Well No.
3

10. Field and Pool, or Wildcat
NE Lovington Penn

2. Name of Operator
Yates Petroleum Corporation

3. Address of Operator
207 S. 4th St., Artesia, NM 88210

4. Location of Well

UNIT LETTER E LOCATED 1470 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE OF SEC. 27 TWP. 16S RGE. 37E NMPM

12. County
Lea

15. Date Spudded 8-27-85 16. Date T.D. Reached 9-26-85 17. Date Compl. (Ready to Prod.) 10-26-85 18. Elevations (DF, RKB, RT, GR, etc.) 3786.7' GR 19. Elev. Casinghead

20. Total Depth -11902' 21. Plug Back T.D. 11818' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools 0-11902'

24. Producing Interval(s), of this completion - Top, Bottom, Name 11439-44' Strawn 25. Was Directional Survey Made No

25. Type Electric and Other Logs Run CNL/FDC; DLL 27. Was Well Cored No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	437'	17-1/2"	450 SX	
8-5/8"	32#	4319'	12-1/4"	2250 SX	
5-1/2"	17 & 20#	11902'	7-7/8"	1305 SX	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	11370'	11370'

31. Perforation Record (Interval, size and number)
11439-11444' w/10 .42" Holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11439-44'	w/1500 gals 15% NEFE acid.

33. PRODUCTION

Date First Production 10-9-85	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	Well Status (Prod. or Shut-in) Producing
Date of Test 10-26-85	Hours Tested 24	Choke Size 17/64"
Flow Tubing Press. 320#	Casing Pressure -	Calculated 24-Hour Rate 250
Oil - Bbl. 250	Gas - MCF 320	Water - Bbl. 0
Oil Gravity - API (Corr.) 42.6°	Gas - Oil Ratio 1280/1	

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

35. List of Attachments
Deviation Survey; DST

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

SIGNED [Signature] TITLE Production Supervisor DATE 10-30-85

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
Rustler 2197		Cisco-Shale 10880					
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11188	T. Kirtland-Fruitland		T. Penn. "C"	
D. Salt		T. Atoka	11598	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3245	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4922	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	6222	T. McKee		Base Greenhorn		T. Granite	
T. Paddeock	6320	T. Ellenburger		T. Dakota			
T. Elinebry		T. Gr. Wash		T. Morrison			
T. Tubb	7762	T. Granite		T. Todilto			
T. Drinkard	7948	T. Delaware Sand		T. Entrada			
T. Abo	8425	T. Bone Springs		T. Wingate			
T. Wolfcamp	Lime 10078	T. Lower Strawn	11308	T. Chinle			
T. Penn.		T.		T. Permian			
T. Cisco (Bough C)	10410	T.		T. Penn. "A"			

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

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

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

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	437	437	Surface, Rock, Redbeds	8090	8760	470	Dolomite
437	1007	570	Redbeds	8760	9400	640	Dolo, Shale
1007	2818	1811	Anhydrite, Salt	9400	9560	160	Dolo, Lime
2818	3329	511	Anhydrite	9560	9880	320	Dolomite
3329	4199	870	Anhydrite, Dolomite	9880	10280	400	Dolo, Cht, Lime
4199	4420	221	Dolomite	10280	10420	140	Lime, Chert
4420	5030	610	Anhydrite, Dolo, Sd, Sh.	10420	10520	100	Lime, Cht, Shale
5030	5920	890	Dolo, Tr. Anhy	10520	10700	180	Dolomite, Lime
5920	6240	320	Dolo, Chert	10700	11470	770	Dolo, Lime
6240	6440	200	Dolo, Lm, Sd, Anhy	11470	11800	330	Lm, Cht, Sh, Dolo, Anhy, Sd
6440	6700	260	Dolomite	11800	11902	102	Shale, Sand, Lime
6700	7250	550	Dolo, Sd, Cht				
7250	7700	450	Dolo, Tr. Anhy.				
7700	8000	300	Dolo, Lm, Sd, Anhy				
8000	8290	290	Dolo, Anhy				

YATES PETROLEUM CORPORATION

DRILL STEM TESTS

Shipp "ZI" Fee
Unit E, 1470 FNL & 660 FWL
Section 27-T16S-R37E
Lea County, NM

DST #1: 6357-6439' Misrun.

DST #2: 10856-10994' (28') Wolfcamp: TO 30"; SI 60"; TO 90"; SI 180".
Opened tank with weak blow. No change, closed tool with weak blow. Re-
opened tool with weak blow. Blow in bubble bucket increased to 3".
Pressure decreasing in 25 minutes, 2" blow in bubble bucket in 30 minutes,
Decreased to 1/2" in bucket after 80 minutes. Closed tool. RECOVERY:
760' drilling fluid. SAMPLER: 2350 cc drilling fluid, 50 cc oil, total
2400 cc with 50 psi. BHT: 158° F. PRESSURES: IHP 5030, IFP 96-163;
ISIP 343; FFP 96-163; FSIP 613; FHP 5030.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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OPERATOR	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

Amerind Oil Co.

Address of Operator

500 Wilco Building, Midland, Texas 79701

Location of Well

T. LETTER A LOCATED 810 FEET FROM THE North LINE AND 660 FEET FROM

East

LINE OF SEC. 28TWP. 16SRGE. 37E

NMPM

12. County

Lea

Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, R&B, RT, GK, etc.)	19. Elev. Casinghead
2/28/85	3/29/85	4/16/85	3788 GL, 3802 KB	3788

Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By: Rotary Tools	Cable Tools
11,775	11,545		0-11,775	

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

11,361 - 11,469' Strawn

25. Was Directional Survey Made yes
see attached

Type Electric and Other Logs Run

BHC Sonic, Dual Laterolog w/MSFL, Comp Density/Comp Neutron, 4-arm Dipmeter

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"	LS butt	358	17 1/2	360 sx Cls C	
8 5/8"	24 & 32#	4,200	11	1875 sx Lite & 300 sx Cls C	
5 1/2	17 & 20#	11,592	7 7/8	300 sx Cls H	

LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	11,266	11,266

Perforation Record (Interval, size and number)

One hole each @ 11,361, 363, 396, 398, 413, 415, 417, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469' (29 holes)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,361-11,469	Acidize w/5000 gal MOD-202

PRODUCTION

1st First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
4/16/85		Kobe 8A jet pump/Unidraulic				Prod.	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4/26/85	24	open		291	336	181	1155
2nd Tubing Pres.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
-	-					43	
Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
sold						Calvin Holloway	

List of Attachments

Record of inclination, DST, Form C-104, 4 logs

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 Robert M. Leitbrock TITLE President DATE April 29, 1985

This form is to be filled 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. This form is to be filled in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anliy _____	T. Canyon _____ 10,888	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn (Lower) 11,314	T. Kirtland-Fruitland _____	T. Penn. "C" _____
D. Salt _____	T. Atoka _____ 11,721	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ 4,957	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____ 6,282	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____ 6,354	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____ 7,900	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____ 8,514	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____ 10,030	T. _____	T. Permian _____	T. _____
T. Cisco (xxxxx) 10,470	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	4193	4193	(not logged)				
4193	10030	5837	dolo w/some sand & shale				
10030	10470	440	shaly lime				
10470	10660	190	lime				
10660	11314	654	shale & lime				
11314	11582	268	lime				
11582	11721	139	lime w/shale & chert				
11721	11775	54	shale				

LEA COUNTY

NEW MEXICO

WILDCAT

Well: C&K PETROLEUM, INC. 1 Monteith

Result: DGA

WF

Loc'n: 5 mi SE/Lovington, 660' FSL 660' FEL Sec 21-16S-37E

Spud: 12-12-76; Comp: 1-16-77; Elev: 3792' grd; TD: 11,680' Strawn;

Casing: 13 3/8" 415'/400 sx, 8 5/8" 4327'/1950 sx

Coran Info: No cores or DST's; Ran GRNL, DILL & GRDL logs; C/Hondo.

Tops: (EL) Yates 3236', San And 5024', Glor 6325', Paddock 6402', Tubb 7764', Drinkard 7890', Abo 8525', Penn Lm 10,940', Strawn 11,382'

API No.: 30-025-25402

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Petroleum Information®

CORPORATION

A Subsidiary of A.C. Nielsen Company

Date: 2-9-77

Card No.: 32 mm

LEA COUNTY

NEW MEXICO

LOVINGTON NE FIELD

Well: YATES PET 1 Freeman "ACF"

Result: OIL DO

Loc'n: 6 mi E/Lovington; Sec 22-16S-37E; 660 FSL 660 FWL of Sec

Spud: 4-2-85; Comp: 5-23-85; Elev: 3787' Grd; TD: 11,850' Pslv; PB: 11,605'

Casing: 13-3/8" 455'/475sx; 8-5/8" 4294'/1850sx; 5 1/2" 11,850'/1100sx;
2-7/8" 10,980'

Prod Zone: (Pennsylvanian) Prod thru perfs 11,038-11,498'

IPF: 393 BOPD + 4 BW, 24 hr test, 30/64" chk, GOR (NR), gty
(NR), CP Pkr, TP 295Comp Info: 2 DST's Tight; Perf (Pennsylvanian) 11,038-11,498',
No treatment rptd; Rig Rel 5-12-85; C/Delta Drlg

Tops: (NR)

API No: 30-025-29194

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Petroleum Information®

CORPORATION

A Subsidiary of A.C. Nielsen Company

Date: 7-3-85

Card No.: 12

MAGNOLIA PET. CO. R. E. Shipp
LEA COUNTY NEW MEXICO WILDCAT
Well: MAGNOLIA PET. CO. R. E. Shipp Result: Dry
Loc'n: Sec 22-16S-37E, 1980' FNL 1100' FWL of Sec; 2 mi E of the Lovington Strawn Fld.
E/cent part of county.
Spud: 5-3-53 Comp 10-18-53 Elev 3787' Grd TD 12,340' LI, PB 6600'.
Casing: 13-3/8" 451'/450 sx, 8-5/8" 4300'/2250 sx.
Prod zone: None.
IPF: None
Comp info: DST 9808-9908', op 1 hr, rec 4100' & 660' SW; DST 9913-36', op 1 hr, rec 180' FNL 120' SWCH; DST 9940-84', op 1 hr, rec 120' SW; DST 10,180-198', op 75 min, rec 2000' WB & 40' mud; FP 305', SIP 3410'/15 min; DST 10,290-119', op 1 hr, rec 5' drlg mud; DST 10,590-632', op 2 hrs, rec 90' mud, WB; DST 10,680-710', op 1 hr, rec 1000' WB, 90' GCH & 60' mud, FP 532', SIP 3003'/15 min; DST 10,714-780', op 2 hrs, rec WB, 275' salty sul wtr, FP 65, SIP 600'/15 min; DST 10,825-10,881', op 1 hr, rec 1200' WB, 60' mud, WB, FP 603', SIP 660'/15 min; DST 10,881-11,030', op 1 hr, rec 260' WB, 660' GCH, 120' GCH, 90' GCH, FP 620', SIP 620'/15 min; DST 11,048-101', op 1 hr, rec 1400' WB, 30' mud, FP 700', SIP 700'/15 min; DST 11,460-312', op 1 hr, rec 1460' WB, 90' GCH, FP 700', SIP 700'/15 min; DST 11,650-670', op 1 hr, rec 1360' WB, 120' mud, FP 20', SI 0'; DST 11,685-735', op 1 hr, rec 1260' WB & 10' GCH, FP 860', SIP 921'/15 min; DST 12,145-162', op 1 hr, rec 2000' WB & 30' mud, FP 1085', SIP 1130'/15 min; DST 12,207-232', rec 22' LI & ch, WB;
Date: 11-3-53 Card No: 8 NM VP
OIL REPORT

MAGNOLIA PET. CO. R. E. Shipp
LEA COUNTY NEW MEXICO WILDCAT

REMARKS CONTINUED: DST 12,142-232', op 35 min, rec 200' WB & 450' mud;
DST 12,375-475', op 1 hr, rec 1800' WB & 100' mud; FP
690', SIP 925'/15 min, PB 6600'; DST 6329-6400', op 4 hrs, rec 100' mud, 210'
WCSW, FP 1903', SIP 1920'/15 min.
Tops: Arby 2133', Yates 3295', San And 3047', Glor 6360', Tubb 7794', Abo
8317', Wolfe 9630', Perm-Penn 10,010'.

11-3-53 Card No: 8 NM VP
OIL REPORT

LEA COUNTY NEW MEXICO LOVINGTON NE. FIELD
Well: YATES PET. 2 Shipp "ZI" Result: OIL DO
Loc'n: 6 mi SE/Lovington; Sec 27-16S-37E; 660' FNL 1100' FWL of Sec; 11,475'
Spud: 11-17-84; Comp: 1-14-85; Elev: 3787' Grd; TD: 11,862' Penn; PB:
Casing: 13-3/8" 455'/450sx; 8-5/8" 4300'/2250sx; 5 1/2" 11,862'/450sx;
2-7/8" @ 11,410'
Prod. Zone: (Penn.) T/Pay 11,461', Prod Perfs 11,461-475'
IPF: 449 BOPD, 40/64" ch, GOR 334, Grav 39, CP Pkr, TP 90#
Comp Info: DST (Glor) 6386-6469', op 2 hrs, rec 15' SW (Sampler
rec 22 cc's Fluid + .0479 CFG), IFP 27-90#/30 mins. ISIP 145#/
1 hr, FFP 72-90#/1 1/2 hrs, FSIP 199#/3 hrs, HP 2897-2879#, BHT
117°; DST (Strawn) 11,448-504', op 30 mins on IF, GTS/11 mins
into ISI, IFP 0-12#/30 mins, tool failed, no other times or
pressures; No Cores; Ran CNL, FDC, DLL; Perf (Strawn) 11,461-475'
w/10 shots; A/500 gals (15%); C/Sharp #48.
Tops: (EL) Rustler 2177', Yates 3256', San And 4958', Glor 6251',
Tubb 7755', Drink 7970', Abo 8300', Wolfe 10,114', Cisco
10,466', Canyon 10,900', Strawn 11,226', L/Strawn 11,320',
Atoka 11,634'.
P I Petroleum Information® API No: 30-025-28994
CORPORATION
A Subsidiary of A.C. Nielsen Company
Date: 2-20-85 Card No: 43 bc

ILLEGIBLE

LEA COUNTY SE NEW MEXICO LOVINGTON NORTHEAST FLD
Well: YATES PET 3 Shipp "ZI" Result: OIL DO
Loc'n: 6 mi SE/Lovington; Sec 27, T16S, R37E Sur; 1470 FNL, 660
FWL of Sec

Spud: 8-27-85; Comp: 10-26-85; Elev: 3787 GR, 3806 KB; TD:
11,902 PSLV; PB: 11,818
Casing: 13 3/8-437-450 sx; 8 5/8-4310-2250 sx; 5 1/2-11,902-
1305 sx; 2 7/8-11,870
Prod Zone: (Pennsylvanian) Prod thru Perfs 11,439-11,444
IPP: 250 BOPD; 24 hr test thru 17/64 chk; GOR
1280; Gty 42.6; CP Pkr; TP 320
Comp Info: RAN: CNL, FDC, DLL; No Cores; Att DST (Paddock)
6357-6439, tool failed; DST (Wolfcamp) 10,856-10,994,
op 2 hrs, rec 760 FT FLUD (Sample chamber rec 2350 CC
FLUD + 50 CC OIL @ 50), 30 min IFP 96-163, 1 hr ISIP
343, 1 hr 30 min FFP 96-163, 3 hr FSIP 613, HP 5030-5030,
BHT 158 deg; Perf (Strawn) 11,439-11,444 w/10 shots;
A/1500 gals (15% NEFE); Rig Rel 9-28-85; C/Peterson Drlg
(Cont'd on Card #16-A)

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

Date: 11-20-85 Card No.: 16

LEA COUNTY SE NEW MEXICO LOVINGTON NORTHEAST FLD
Well: YATES PET 3 Shipp "ZI" Result: OIL DO
Loc'n: 6 mi SE/Lovington; Sec 27, T16S, R37E Sur; 1470 FNL, 660
FWL of Sec

(Cont'd from Card #16)

TOPS: Rustler 2197, Yates 3245, San Andres 4922, Glorieta
6222, Paddock 6320, Tubb 7762, Drinkard 7948, Abo 8425,
Wolfcamp Lime 10,078, Cisco 10,410, Cisco Shale 10,880,
Strawn 11,188, Strawn Lower 11,308, Atoka 11,598
API No: 30-025-29335

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

Date: 11-20-85 Card No.: 16-A

LEA COUNTY NEW MEXICO CASEY FIELD
Well: YATES PETROLEUM 1 Shipp "ZI" Result: OIL DO
Loc'n: 7 mi NW/Knowles; 660' FNL, 2310' FWL Sec 27-16S-37E
Spud: 4-4-84; Comp: 7-10-84; Elev: 3784' Grd; TD: 11,850' Atoka; PB:
11,530'
Casing: 20" 40' /set; 13-3/8" 450' /450sx; 8-5/8" 4325' /2350sx; 5 1/2"
11,850' /1100sx; 2-7/8" 11,337'
Prod. Zone: (Strawn) T/Pay, Prod thru Perfs 11,414-11,493 1/2'
IPP: 10 BOPD + 40 BW; GOR 100, Grav(NR)
Comp Info: ran CNL, FDC, DLL logs, DST(L/Strn) 11,424-513', op 2hr
GTS/35 mins, rec 352' Oil + 93 MCO + 373' Mud (Spl Chamber rec
1.812 CFTG+200 cc Oil @ 250), 30 min IFP 92-138, 1 hr FSIP 3238
HP 5189-5189', BHT 164 deg; No Cores; Perf (Strn) 11,472-493 1/2' w/
7 shots, A/1500 gals (15%); Perf (Strn) 11,436-441' w/2 SPF, A/1500
gals 15%; Perf (Strn) 11,414-464' w/15 shots, A/1500 gals (15%),
Frac 30,000 gals + 15,000# sd, C/Landis #1
Tops EL: Rustler 2128', Salt 2216, B/Salt 3139', Yates 3256', San
And 4942', Glor 6246', Paddock 6350', Tubb 7810', Drkd 7989',
Abo 8322', Wolfc 9939', Cisco 10,476', Cnyn 10,922', Strn 11,320',
L/Strn Lm 11,386, Atoka Shale 11,660' API No: 30-025-28657

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Date: 8-1-84 Card No.: 31 1p

LEA COUNTY NEW MEXICO LOVINGTON NE

Well: AMERIND OIL, 1 Carter Result: OIL DO

Loc'n: 5 mi SE/Lovington; 810'FNL,660'FEL Sec 28-16S-37E 11,545'

Spud:2-28-85;Comp:4-16-85;Elev:3789'Grd; TD:11,775'Atoka;PB:
 Casing: 13-3/8"358'/360 sx;8-5/8" 4200'/2175 sx;5 1/2"11,592'7
 300 sx;2-7/8" 11,266'

Prod Zone:(Penn),Prod thru Perfs 11,361-11,469'

IPP: 291 BOPD + 181 BW, Grav 43, GOR 1155

Comp Info:ran BHC, SONL, DLL,MSFL,CDL,CNL, DIPM logs,Rig Rel
 4-1-85;DST (L/Strawn) 11,380-445', op 1 hr 3 mins,GTS 15 mins
 rec 811' HGCO (sampler rec 500 cc oil + 1.5 CFG), IFP 290-288
 3 mins, ISIP 2907#/1 hr 30 mins, FFP 228-290#/1 hr, FSIP
 2899#/45 mins, HP 5475-5474#; no cores;Perf (L/Strawn) 11,361-
 11,469'/1 SPI (OA),A/5000 gals MOD 202; S/79 BO & 130 BW/5 hrs
 C/Hondo #3

Tops EL: SanAnd 4957',Glorieta 6282', Paddock 6 354',Drinkard
 7900',Abo 8514', Penn 10,030',Cisco 10,470', Canyon 10,888'
 L/Strawn 11,314', Atoka 11,721'

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API No:30-025-29138
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Date: 5-29-85 Card No.: 27 dh

Co. MDA	POOL M. L. M. M. M.	STATE B. H. KROENLEIN	211-00
COMPANY Standard of Texas - #1 - State B-1527		ELEV. 3813 DS	
LOC. 1980' PSL & 660' FWL Unit L			
Sec. 15, T.16-S, R. 37-E			
13,000' Dev.			
ACID OR SHOT	CASING RECORD	Anhy. TOPS 211.0	
	13 3/8-364-290	7 Riva 3628	
	8 5/8-5081-1500	Queen 4244	
		Gryb. 4600	
		Premier 5010	
		S. And. 5066	
		Gler. 6498	
		Tubb 7833	
		Abo 8582	
		SEE "REMARKS"	
SPO. 6-13-60	COMP. 9-9-60	TO 13,647 dolo.	
I. P. P & A			
OR. GOR TP			
REMARKS: TOPS CONT'D.: Atoka 11880; U. Miss. 12228; Barn. 12400; L. Miss. 12614; Woodf. 13374; Dev. 13500. DST 18650-8724 op. 1 1/2 hr. 1000' WB, rec. WB & 30' DM; FP 550; SIP 550/45". CONT'D. PAGE 2.			

IEA, H.M.	15-16-37	K-241-60
Standard of Texas - #1 - State "B"-1527		PAGE 2.
DST 2	10368-90 pkr fail	
DST 2	10633-90 op. 1 1/2 hr. rec. 1000' WB, 75' mud; ISIP 3670/90"; FP 90-155; PSIP failed/1 hr.	
DST 1	10780-860 op. 1 hr. rec. 1000' WB, 60' mud; ISIP 880/60"; FP 520-520; PSIP 720/60".	
DST 2	11337-91 op. 2 hrs. rec. 1000' HOGGWB, 10' free oil; ISIP 2875/60"; FP 575-575; PSIP 1525/120".	
DST 6	12264-528 op. 1 hr. 12 mins., rec. 1600' OAGC wtr.; 120' OAGC; ISIP 1650/30"; FP 1050-75; PSIP 1825/75".	
DST 7	13540-97 op. 2 hrs. rec. 2500' WB, 180' VSOCH, 840' salty sul. wtr.; ISIP 5400; FP 1375-1575; PSIP 5500/120".	
Core	13597-647 rec. 50'; 41' vuggy dolo.; 9' conc. dolo., ES.	
DST 8	13537-647 pkr failed.	

1
 NEW MEXICO LOUISIANA, KY. FUEL
 West
 Loc n
 FERNIZOIL CO. 2 State "16"
 5 mi SE/Lovington; Sec 16-16S-37E; 1330' FUEL 1650' FUEL Sec;
 Unit + B
 Sand: 4-10-64; Core: 8-84; Elev: 3800' Grd; 11,720' Penn;
 Casing: 11-3-64; 11-10-64; 8-1/8" 4345'/1650m;
 Comp Info: 8-10-64; 11,444-536', op 1 hr 5 mins, Rec 90'
 Mud: (Sample changed) rec 2200 oc's Mud @ 21, FPP 23.4-
 46.78/30 min, 46.78/30 min, FPP 46.78/1 hr, FPP 46.78/
 3 hrs, Wt 11.1, 11.1, 11.1, 11.1, 11.1, 11.1, 11.1, 11.1,
 G/mud: 11.1.
 Yates 1346', San Andres 4484',
 Granite 78.1', Abu 8506', Walscamp 18,876',
 7-12-64 to show 200' zone
 3-27-65

Co. LEA (2) POOLE. LOVINGTON STATE N.M. P-16-16-37
PENN. KROENLEIN
Company Pennzoil United, Inc. - #1 - State "16"
ELEV. 3821 KB
Loc. 660' FSL & FWL Unit M
Sec. 16, T.16-S, R.37-E
12,000' RT-Strawn

PAY STIMULATION PERF: 11452- 11471		CASING 13 3/8- 348- 350 8 5/8-4355- 500 5 1/2-11680-400 2 3/8-11478	TOPS Anhy 2088 Salt 2186 B.Salt 3180 Yates 3277 Queen 4280 S.And 5060 Glor 6440 Padd 7147 Tubb 7778 Abo 8480
SPD. 4-2-69 COMP. 5-22-69		TP cont'd. 11,452 TD 11,680 PBD 11,648	
I. P. F. 408 BO, no wtr/16 hrs., 17/64" ch.			
GR. 44.7 GOR 807 TP 1100 CP pkr TOPS CONT'D.: Wolfe 10090; Penn 10852; Strn 11321; Atoka 11635. CONT'D. PAGE 2.			

② LEA, N.M. Pennzoil United, Inc. - #1 - State "16"

DST 11454-485 op. 3 hrs. 15 mins., gas at 400,000 CFG; flow 83 BO/30 mins. (no wtr.); Gr. 45; FP 565-2537; ISIP 4889/2 hrs.; FSIP 4089/3 hrs.

Perf 1 SPI/11452, 11456, 11458, 11460, 11464, 11469, 11471'; 1000 gal. mud acid/11452-471'; F. 408 BO, no wtr., 329 MCFG/16 hrs., 17/64" ch.

①

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COUNTY LEA		FIELD Lovington, NE.		STATE Texas	
OPR PENNZOIL CO.		API 30-025-24936			
NO 3	LEASE State "C"	SERIAL			
Sec 17, T-16-S, R-37-E Unit C		MAP			
660' FSL, 1980' FEL of Sec		CO-ORD			
4 mi SE/Lovington		ELEV		L.B.S.	
SP1 1-7-75	CMP 2-25-75	WELL CLASS: INIT D		FIN DO	
CS3		FORMATION	DATUM	FORMATION	DATUM
13 3/8" at 381' w/380 sx					
8 5/8" at 4350' w/600 sx					
5 1/2" at 11,644' w/375 sx					
		TD 11,674' (PSLV)	PBD 11,559'		

IP (Pennsylvanian) Perfs 11,423-479' F 267 BOPD + 3 BW. Pot based on 24 hr test thru 24/64" chk. GOR 2590; Grav 42; CP Pkr; TP 350#

CNTR Cactus OPR'S ELEV 3821' GL. 3841' KB^{PD} 11.800' RT

①

F.R. 1-6-75
(Pennsylvanian)

1-9-75 Drlg 1073' redbed

1-13-75 Drlg 4065' anhy

1-20-75 Drlg 5755' 1m & cht

1-28-75 Drlg 8190' 1m

1-30-75 Drlg 8800' 1m

2-4-75 Drlg 10,110' sh & 1m

2-10-75 Drlg 11,086' 1m & sh

2-18-75 TD 11,674'; PBD 11,559'; WOC
Cored 11,398-451', rec 21', no descr

2-25-75 TD 11,674'; PBD 11,559'; Swbg Id
Perf @ 11,423', 11,425', 11,428', 11,431',
11,438', 11,439', 11,445', 11,447', 11,454',
11,457', 11,459', 11,472', 11,474', 11,477',
11,479' w/1 SPI

①

LEA	Lovington, NE.	NM
PENNZOIL CO.	3 State "C"	Page #2
	Sec 17, T16S, R37E	

3-3-75 TD 11,674'; PBD 11,559'; WO OCC Pot
Acid (11,423-479') 3500 gals
Flwd 267 BO + 4 BW in 24 hrs thru 24/64"
chk, GOR 2590; Grav 42; TP 350# (11,423-479')

3-17-75 TD 11,674'; PBD 11,559'; COMPLETE
LOG TOPS: Anhydrite 2104', Yates 3271',
San Andres 5053', Glorieta 6428', Tubb
7769', Abo 8447', Wolfcamp 9944',
Pennsylvanian 10,963', Canyon 11,202',
Strawn 11,280', Atoka 11,647'

3-22-75 COMPLETION REPORTED

Co. LEA ⁽²⁾ POOL LOVINGTON, STATE N.M. P-17-16-37
 EAST-PENN KROENLEIN
 COMPANY Pennzoil United, Inc. - #2 - State "17" C
 ELEV. 3826 KB
 LOC. 660' FSL & FEL Unit P
 Sec. 17, T.16-S, R.37-E
 12,000' RT-Strawn

PAY STIMULATION	CASING	TOPS
PERF: 11437- 11454	13 3/8- 350- 330 8 5/8- 4350- 550 5 1/2- 11649- 375 2 3/8- 11464	Anhy 2095 Salt 2200 B.Salt 3154 Yates 3275 S.And 5057 Glor 6440 Tubb 7774 Abo 8476 Wolfc 10060 Penn 10833
SPD. 5-13-69	COMP. 6-24-69	
I. P. F. 553 BO, no wtr/24 hrs., 18/64" ch.		TP cont'd. 11,437 TD 11,649 PBD
GR. 45. GOR 1750 TP 1100 CP pkr TOPS CONT'D.: Strn 11307; Atoka 11614. CONT'D. PAGE 2.		

⁽²⁾ LEA, N.M. P-17-16-37
 Pennzoil United, Inc. - #2 - State "17" C PAGE 2.

DST 11423-490 op. 3 hrs. 15 mins., gas in 4
 mins., mud in 11 mins., oil in 12 mins.;
 F. 23 BO/1 hr., TP 1000#; flow 34 BOPH/2
 hrs., 25/64" ch., TP 1000#; rev. out 70 BO,
 no wtr.; FP 2258-3658; ISIP 3955/2 hrs.;
 FSIP 3955/3 hrs.
 Perf: 11437, 11439, 11444, 11448, 11450,
 11454'; 1000 gal. acid; F. 438 BO, no wtr.
 19 hrs. (11437-11454').

Co. LEA ① POOL E. LOVINGTON STATE N.M. P-20-16-37
 PENN / State C
 COMPANY Pennzoil United, Inc. - #1 - State "20"
 ELEV. 3833 KB
 LOC. 660' FNL & FEL Unit A
 Sec. 20, T. 16-S, R. 37-E
 11,600' RT-Strawn

PAY STIMULATION	CASING	TOPS
PERF: 11403- 11484	13 3/8- 377- 350 8 5/8- 4350- 550 5 1/2- 11658- 485	Anhy 2108 Salt 2208 B. Salt 3156 Yates 3248 Queen 4270 S. And 5067 Glor 6434 Padd 7133 Tubb 7790 Abo 8466
SPD. 10-30-68	COMP. 1-4-69	
I. P. F. 430 BOPD, no wtr., 20/64" ch.		
GR. 42. GOR 830 TP 550 CP pkr		TP cont'd. 11,403
TOPS CONT'D.: Wolfe 10056; Penn 10835; Strn 11287; Atoka 11587.		TD 11,660
CONT'D. PAGE 2.		PBD 11,623

① LEA, N.M. P-20-16-37
 PAGE 2.
 Pennzoil United, Inc. - #1 - State "20"

DST 8980-9046 op. 1 hr. 10 mins., very weak blow; rec. 710' drlg. mud; FP 31-296; ISIP 3426/1 hr.; FSIP 3234/90 mins.
 DST 9744-9838 op. 4 hrs. 15 mins., fair blow; rec. 455' drlg. mud, 3731' sul. wtr.; FP 461-1379; ISIP 3680/1 hr.; FSIP 3635/2 hrs.
 DST 11365-391 op. 8 hrs. 15 mins., rec. 377' slt. gas cut DF; FP 47-142; ISIP 142/1 hr.; FSIP 214/6 hrs.
 Perf 1 SPF/11403, 11409, 11415, 11417, 11445, 11458, 11461, 11468, 11472, 11475, 11484, 2000 gal. acid/11403-484', F. 430 BO + 356 MCFG, no wtr/24 hrs.; 20/64" ch.

5060 BO/MO 10-81

LEA COUNTY ② NEW MEXICO LOVINGTON, NE FLD
 Well: TEXAS CRUDE, INC. 1 Montieth "20-A" Result: D&A D
 Loc'n: 5 mi SE/Lovington, Sec 20-16S-37E, 660 FNL, 2130 FWL Sec Unit C
 Spud: 8-7-82, Comp: 9-12-82, Elev: 3819' GL, TD: 11,610 (STRN)
 Casing: 12 3/4" 440'/500sx, 8 5/8" 4308'/2100sx
 Comp Info: NR, C/Willbros #5
 Tops: (EL) Rustler 2120', Salt 2148', Yates 3255', Queen 4173'
 San Andres 5005' GLRT 6380', Tubb 7735', Abo 8425', Wolfe 9695'
 PSLV 9980', Cisco 10,360', Canyon 10,740' STRN 11,255'
 API No: 30-025-27889

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(3)

LEA COUNTY NEW MEXICO NE. LOVINGTON FLD
 Well: TEXAS CRUDE, INC. 1 Montieth "20" Result: OIL DO
 Loc'n: 5 mi SE/Lovington; Sec 20-16S-37E, 1980' FNL, 2130 FWL Sec
 Unit F 11,448'
 Spud: 5-6-82, Comp: 6-28-82, Elev: 3814' GL, TD: 11,490' (ATOK) PB:
 Casing: 12 3/4" 44' / 500sx, 8 5/8" 4318' / 1300sx, 5 1/2" 11,490' / 465sx
 Prod Zone: (PSLV) T/Pay 11,245', Prod thru Perfs 11,245-386'
 IPF: 216 BOPD, Gty (NR) GOR 1657, CP Pkr, TP 125
 Comp Info: Perf (STRN) 11,245-386, A/200 gals, C/Willbros #6
 Tops: (EL) Rustler 2130', Salt 2190', Yates 3245', Queen 4162
 San And 4-94', GLRT 635 5', Paddock 6451', Blinab 7042'
 Tubb 7720', DKRD 7875', Abo 8390', Wolfc 9668', PSLV 9950
 Cisco 10,33 5', Canyon 10,705' STRN 11,228, Atoka 11,475
 API No: 30-025-27642

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Date: 7-21-82

Card No.: 35 mja

(4)

LEA COUNTY NEW MEXICO LOVINGTON, NE/FLD
 Well: PENNZOIL CO, 4 State "C" Result: OIL DO
 Loc'n: 5 mi SE/Lovington; 1980' FNL, 1830' FEL Sec 20-16S-37E
 Unit G 11,457'
 Spud: 6-3-81; Comp: 8-7-81; Elev: 3816' Grd; TD: 11,544' Atoka; PB:
 Casing: 13-3/8" 435' / 425 sx; 8-5/8" 4320' / 2200 sx; 5 1/2" 11,544' / 700
 Prod Zone: (Penn), T/Pay 11,310', Prod thru Perfs 11,310-387'
 IPF: 444 BOPD 24/64" ch, Grav 45, GOR 2146, TP 580#, CP pkr
 Comp Info: DST (Strawn) 11,150-415', op 2 hrs 15 mins, GTS 1/2 min
 rec 2000' oilw/tr wtr, 1000' VHO&GCM (sampler rec 3.2 CFG +
 1000 cc oil (Grav 43) + 100 cc mud @ 1300#), ISIP 1839#/1 hr
 FP 778-1802#, FSIP 1820#/4 hrs, HP 5534-5552#; Perf (Strawn)
 17/11, 310-387'; A/2000 gals; F/444 BOPD + 953 MCFGPD/24 hrs
 C/Cactus #8
 Tops EL: Rustler 2110', Yates 3257', Glorieta 6388', Tubb 7785'
 Abo 8397', Wolfc 10,780', Strawn 11,198', Atoka 11,493'
 API No: 30-025-27433

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Date: 9-9-81

Card No.: 8 dh

(5)

LEA COUNTY NEW MEXICO LOVINGTON NE. FIELD
 Well: GETTY OIL 1Y Lovington Lumpkin "20" Result: D&A D
 Loc'n: 5 mi SE/Lovington; Sec 20-16S-37E; 1980' FSL 660' FEL of Sec;
 Unit I
 Spud: 9-4-84; Comp: 10-24-84; Elev: 3808' Grd; TD: 11,600' Strawn;
 Casing: 13-3/8" 460' / 670sx; 8-5/8" 4504' / 2700sx;
 Comp Info: Core NR; Ran GRL, CNL, CALP; No DST's; C/Basin
 Drlg. #5.
 Tops: (EL) Glorieta 6352', Paddock 6409', Abo 8392', Strawn
 11,225'.
 API No: 30-025-28893

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Date: 2-27-85

Card No.: 21

bc

⑥ LEA COUNTY NEW MEXICO LOVINGTON, NE
 Well: GETTY OIL, 1 Lovington-Lumpkin "20" Result: J & A D
 Loc'n: 6 mi SE/Lovington; 1980' FSL, 805' FEL Sec 20-16S-37E
 Unit I
 Spud: 7-14-84; Comp: 9-4-84; Elev: 3808' Grd; TD: 8490' Tubb
 Casing: 13-3/8" 454'/500 sx; 8-5/8" 4439'/2175 sx
 Comp Info: PB 4179'; set WS & drld off @ 4471'; no cores or
 DSTs; C/Basin #5
 Tops EL: B/Salt 3150', San Andres 4970', Glorieta 6350', Tubb
 7750'
 API No: 30-025-28788

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Date: 9-26-84

Card No.: 12 dh

⑦ LEA COUNTY NEW MEXICO LOVINGTON, NE. FIELD
 Well: SOHIO PETROLEUM CO. 1 Montieth Result: OIL DO
 Loc'n: 5 mi SE/Lovington; Sec 20-16S-37E; 1830' FSL 1980' FWL of Sec;
 Unit K
 Spud: 12-4-83; Comp: 1-31-84; Elev: 3812' Grd; 3831' KB; TD: 11,550'
 Atoka; PB: 11,501'
 Casing: 13-3/8" 435'/520sx; 8-5/8" 4480'/1350sx; 5 1/2" 11,550'/440sx;
 2-7/8" @ 11,500'
 Prod. Zone: (Penn) T/Pay 11,301', Prod Perfs 11,301-11,358'
 IPF: 109 BOPD, 48/64" ch, GOR 3000, Grav 43.7, CP 450#, TP 80#;
 Comp Info: No Cores; Ran GRL, CCL, GRNL, DI, BHC, SONL, LDT, MLAT;
 Perf (Strawn) 11,301-11,358' w/17 shots; A/4000 gals (15%);
 C/Blanks Drlg. #8.
 Tops: (EL) Rustler 2100', Yates 3210', San Andres 4835',
 Glorieta 6204', Paddock 6950', Blinbry 7210', Tubb 7610',
 Drinkard 7960', Abo 8258', Penn 10,870', Canyon 11,060',
 Strawn 11,160', Atoka 11,410'.
 API No: 30-025-28465

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 CORPORATION
 A Subsidiary of A.C. Nielsen Company

Date: 3-28-84

Card No 37

bc

LEA, N.M. (8) FULL WILDCAT STATE N.M. KROENLEIN 241-52
 COMPANY Tide Water - #1 - H.T. Monteith ELEV. 3834 DF
 Loc. 660 FSL & 660 FWL of Sec. Unit M
 Sec. 20, T.16-S, R.37-E

ACID OR SHOT	CASING RECORD	Top
6000 gals.	13 3/8- 336-359	A. 2127
	8 5/8-5063-3000	Y. 3233
	5 1/2-4939-	Br.L. 3412
	11412-350	SA 4886
	2 -11322	Glor. 6300
		Tubb. 7678
		Wichita 8468
		Abo 8310
BPO. 3-25-52 COMP. 8-11-52		(Cont'd.)
I. P. F. 754 BOPD 5/8" chk.		TP 11236
660 BO 21 hrs.		
GR 42 GDR 1302 TP 200	CP Kr. 11282	TD 11925 L.
REMARKS More TOPS; Penn. 10490; St. 11207; rd 11368		
WC 10000; Miss L. 11912.		
CONT'D PAGE 2.		

LEA, N.M. (8) 20-16-37 K-241-52
 Tide Water - #1 - H.T. Monteith PAGE 2.

DST 6315-6339 op 30", Rec. 10' M, FP 0 SI 0.
 DST 8275-8308 op 30", Rec. 5' M, FP 0 SI 0.
 DST 8335-80 op 30", Rec. 40' M, FP 0 SI 0.
 DST 11205-233 1800 WB, op. 45", Rec. WB, 60' DM,
 FP 875 SI 1100.
 DST 11232-276 1860 WB op 1'45", G 33", WB 1'12", O
 1'32", F to P. 30" Est R. 50 BOPH, Rev. Circ -
 No wtr. present, FP 1045-2645 SI 2'45" 3990.

DST 11472-497 2000' WB 30" Rec. WB 120' M.
 Perf. 96/11005-21
 DST 11005-21 2000' WB op 2 1/2", Rec. WB 1860 OACCM,
 FP 1265 SI fail.
 Perf. 64/11300-316.
 DST 11300-316 2000' WB op 22'39", WB 28", G 31", O 40",
 CONT'D PAGE 3.

LEA, N.M. (8) 20-16-37 K-241-52
 Tide Water - #1 - H.T. Monteith PAGE 3.

F. 660 BO 21 hrs., FP 2390.
 Perf. 96/11256-280, Sub. & F. 39 BO 1 hr, 36 BO 2 hrs.
 thru 1" chk. SI
 Tr. 6000 gals. F. 75 BO 1 st. hr.
 72 BO 2 ad. hr.
 49 BO 3 rd hr.
 48 BO 4 th. hr.
 49 BO 5 th. hr. 1/2" chk.

①

LEA COUNTY NEW MEXICO LOVINGTON, NE. FIELD

Well: AMERICAN QUASAR PETROLEUM CO. OF NEW MEIXCO 1 Res. State
Locn: 6 mi SE/Loving, 610 FNL, 660 FEL of Sec 21-16S-37E D&A D
Unit A

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Spud: 2-17-81; Comp: 4-13-81; Elev: 3793' Grd; TD: 11,646' Strawn
Casing: 13-3/8" 350' / 560sx; 8-5/8" 449s' / 1950sx
Comp Info: This well drilled "Tight"; Will re-issue if Add'l info
is released, C/Cactus
Tops: (EL) Rustler 2204, Yates 3303, San Andres 5078, Glorieta 6550,
Tubb 7763, Abo 8450, Wolfcamp 10,089, Pennsylvanian 10,930, Strawn
11,459
API No: 30-025-27226



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

Date: 5-27-81 Card No: 35 1p

Co. LEA ② POOL UNDES. STATE N.M. P-21-16-37
(E. LOVINGTON)
COMPANY Pennzoil United, Inc. - #1 - State "21"
ELEV 3817 GR
LOC. 660' FNL & FWL Unit D
Sec. 21, T.16-S, R.37-E
12,000' RT-Strawn

PAY STIMULATION		CASING	TOPS
PERF:		13 3/8- 354- 300	Yates 3275
		8 5/8- 4425- 550	S. And 5060
			Glor 6426
			Tubb 7811
			Wolfc 10100
			Strn 11342
			Atoka 11604
SPD.	7-12-69	COMP. 8-28-69	
I. P.	P & A		
GR.	GOR	TP	CP
DST 11420-11491 op. 1 hr., weak		TP	
blow 5 mins., died; rec. 200'		TD 11,700	
drlg. mud; CONT'D. PAGE 2.		PBD	

LEA, N.M. ② P-21-16-37
PAGE 2.
Pennzoil United, Inc. - #1 - State "21"

FP 130-130; ISIP 130/1 hr.; FSIP 130/2 hrs.

Sec. 21-T16S-R37E

③

LEA COUNTY

SE NEW MEXICO

LOVINGTON NE FIELD

Well: *PENNZOIL CO 2 State "21"

Result: *OIL *DO

Loc'n: 6 mi SE/Lovington; Sec 21, T16S, R37E Sur; 1980 FNL, 660

FWL of Sec

Unit E

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Spud: 11-8-83; Comp: *2-2-84; Elev: 3803 GR, 3817 KB;

TD: 11,650 PSLV; PB: 11,604

Casing: 13 3/8-409-370 sx; 8 5/8-4242-1800 sx; 5 1/2-11,649-300 sx

Prod Zone: (Pennsylvanian) Prod thru Perfs 11,347-11,461

*IPP: 27 BOPD + 5 BW; 24 hr test; GOR (NR); Gty (NR)

Comp Info: No Cores; RAN: DENL, GRL, ACSL, DLL, BHC, CNDL;

Drlg break 10,410-11,440 w/gd flu; DST (Pennsylvanian)

11,350-11,650, op 2 mins, Pkr failed & tool slid 10

FT, rec 930 FT WCUSH + 1000 FT MUD, IFP 653-660, HP

5672-5697; Perf (*Strawn Lower) @ 11,347, 11,358,

11,369, 11,371, 11,375, 11,377, 11,381, 11,394, 11,396,

11,398, 11,401, 11,404, 11,406, 11,413, 11,424, 11,433,

11,443, 11,454, 11,457, 11,461 w/l SPI; S/16 BO + 5 BLW



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(Cont'd on Card 27-A)

Date: 10-16-85 Card No.: 27

③

LEA COUNTY

SE NEW MEXICO

LOVINGTON NE FIELD

Well: *PENNZOIL CO 2 State "21"

Result: *OIL *DO

Loc'n: 6 mi SE/Lovington; Sec 21, T16S, R27E Sur; 1980 FNL, 660

FWL of Sec

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(Cont'd from Card 27)

Comp Info: A/5000 gals; S/& F/47 BO + 5 BLW in 8 hrs 15 mins; Rig Rel 12-12-83; C/Hondo Drlg

TOPS: Rustler 2113, Yates 3274, Queen 4267, San Andres

5050, Glorieta 6410, Paddock 7135, Tubb 7781, Abo

8453, Wolfcamp 9838, Pennsylvanian 10,060, Cisco 10,537,

Canyon 10,844, Strawn 11,269

API No: 30-025-28455

*Re-Issued to denote changes and additions;
Formerly Amerind Oil Co.



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Date: 10-16-85 Card No.: 27-A

4 LEA COUNTY NEW MEXICO LOVINGTON NE
Well: AMERIND OIL, 1 Higgins Trust, Inc. Result: OIL DO
Loc'n: 9 mi NW/Knowles; 1980' FSL, 510' FWL Sec 21-16S-37E
Unit L

Spud: 4-6-84; Comp: 5-24-84; Elev: 3804' Grd, 3818' KB; TD: 11,600' Penn
PB: 11,553'
Casing: 13-3/8" 395'/420sx; 8-5/8" 4210'/1300sx; 5 1/2" 11,599'/300sx;
2-3/8" 11,278'
Prod. Zone: (Penn), Prod thru Perfs 11,387-477'
IPF: 438 BOPD + 13 BW, 32/64" ch, GOR 1256; Grav 43; CP Pkr; TP 110
Comp Info: ran DLL, MSFL, CNL, LDT, SONL logs, Circ Sples @ 11,400',
had 15% flu; below 11,410' had tr to 5% dull flu, No Cores,
DST (Penn) 11,369-600', op 1 hr 3 mins, GTS/10 mins, rev out 3924'
OIL (Spl rec 800 CC OIL @ 2900), 3 min IFP 442-443, 1 hr 30 min
ISIP 2429, 1 hr FFP 420-1106, 5 hr 15 min FSIP 2429, HP 5654-
5614'; Perf (Strawn) @ 11,387', 395', 411', 418', 423', 428', 433',
441', 449', 454', 460', 467', 477' w/1 SPI, A/5000 gals (MOD 202);
C/Hondo #3

Tops EL: Rustler 2102', Salt 2197', Yates 3257', Queen 4242', San
Cont'd on card 49-A

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A Subsidiary of A.C. Nielsen Company
Date: 1-23-85 Card No.: 49 1p

4 LEA COUNTY NEW MEXICO LOVINGTON NE
Well: AMERIND OIL, 1 Higgins Trust, Inc. Result: OIL DO
Loc'n: 9 mi NW/Knowles; 1980' FSL, 510' FWL Sec 21-16S-37E

Cont'd from card 49

Tops EL: And 5010', Glorieta 6368', Paddock 6440', Tubb 7769',
Drinkard 7880', Abo 8472', Wolfe 9840', Penn 10,050', Cisco
15,506', Canyon 10,816', Strawn 11,245'
API No: 30-025-28658

Re-issued to correct Prod. Formation from Strawn and EL/Tops;
Replaces card 30 dated 6-20-84.

Petroleum Information®
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Date: 1-23-84 Card No.: 49-A 1p

5 LEA COUNTY NEW MEXICO LOVINGTON, NE
Well: AMERIND OIL, 2 Higgins Trust Inc. Result: OIL DO
Loc'n: 6 mi SE/Lovington; 660' FSL, 510' FWL Sec 21-16S-37E
Unit M 11,532'

Spud: 7-8-84; Comp: 8-24-84; Elev: 3814' KB; TD: 11,575' Penn; PB:
Casing: 13-3/8" 385'/420sx; 8-5/8" 4312'/2300sx; 5 1/2" 11,575/300
sx; 2-3/8" 11,246'
Prod Zone: (Penn), Prod thru Perfs 11,325-11,407'
IPF: 436 BOPD + 121 BW 30/64" ch, Grav 43, GOR 959, TP160#, CPpkr
Comp Info: ran DISF, CNL, ACSL, GRL, DLL, MINL, CORL logs, Rig Rel
8-11-84; Crd (L/Strn) 11,398-11,428', rec 22' foss ls, poro,
lrg vug w/calc xyl pt filling sm vug, flu evident only in
titer pt of mtrx; DST (Strawn) 11,351-11,552', op 1 hr 3 mins
GTS 27 mins, rec 250' O&GCM, 1740' HGCO, 700' wtr (sampler rec 3.76
CFG + 700 cc oil (grav 43.6) + 20 cc wtr @ 820), IFP 170-233#/
3 mins, ISIP 2661#/1hr, FFP 272-1106#/1hr, FSIP 2661#/2 hrs,
HP 5304-5304#, BHT 178 deg; Perf (Strawn) 11,325-11,407/15 shots
A/5000 gals MOD 202; C/Hondo #3 API No: 30-025-28775

Tops EL: Rustler 2096', Salt 2183', Yates 3219', Queen 4205', San
And 4959', Glor 6305', Paddock 6372', Tubb 7740', Drkd 7856', Abo
10,783', Strawn 11,195', Cisco 10,464', Canyon
9797', Penn 10,003'
Date: 9-19-84 Card No: 24 dh

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Sec. 21-T16S-R37E

⑥

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COUNTY LEA FIELD Lovington, NE STATE NM API 30-025-24301
OPR BROWN, TOM INC. SERIAL _____
NO 1 LEASE Montieth "21" MAP _____
Sec 21, T-16-S, R-37-E Unit A CO-ORD _____
660' FSL, 1980' FWL of Sec ELEV. DF. _____ L & S _____

		CLASS		GL	
SPD		FORMATION	DATUM	FORMATION	DATUM
12-4-72	CMP 1-10-73				
CSG & SX					
12 3/4" at 400' w/425 sz					
8 5/8" at 4407' w/350 sz					
LOGS	EL GR RA IND HC A	TD	11,860'	PBD	
PLUGGED & ABANDONED					

⑥

12-4-72 (Atoka)
12-5-72 TD 400'; WOC
12-12-72 Drlg. 4487'
12-19-72 Drlg. 7392'
1-2-73 Drlg. 10,670'
1-9-73 Drlg. 11,854'
1-15-73 TD 11,860'; PLUGGED & ABANDONED
No cores or DST's
LOG TOPS: Strawn 11,340', Atoka 11,667',
Chester 11,840'
1-20-73 COMPLETION REPORTED

CO. LEA (1) POOL WILDCAT STATE N.M. KROENLEIN 227-

COMPANY Apache Corp. - #1 - E. T. Russell

ELEV. 3781
DFLOC. 660' FNL & FEL Unit A
Sec. 26, T.16-S, R.37-E
9000' RT-Abo

PAY STIMULATION

CASING

13 3/8- 320- 325
8 5/8- 3819- 300

TOPS

S. And. 5010
Glor 6415
Tubb 7925
Abo Reef 8600

SPD 2-17-63

COMP. 3-28-63

I. P. P & A

GR. GOR TP CP

REMARKS: DST/8549-8680 op. 1 hr. rec.

5010' salty sul. wtr.; FP 2896-

3096; ISIP 3056/45"; FSIP 3116/30".

TP

TD 8680

PBD

(2)

LEA COUNTY

NEW MEXICO

CASEY FIELD

Well: H. L. BROWN, JR, 1 M. Wright

Result: D & A D

Loc'n: 8 mi SE/Lovington; 554' FSL, 554' FWL Sec 26-16S-37E
Unit M

Spud: 10-14-82; Comp: 11-17-82; Elev: 3771' Grd; TD: 11,652' Strawn

Casing: 13-3/8" 400'/475 sx; 8-5/8" 4798'/2300 sx

Comp Info: no cores or DSTs; ran CNDL logs; C/Sierra #3

Tops EL: Salt 3050', Yates 3180', Glorieta 6285', Paddock

6410', Tubb 7815', Drinkard 7932', Abo 8600', Strawn

11,438'

API No: 30-025-27691

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Replaces card 53 dated 3-2-83 for EL/Tops



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Date: 4-6-83

Card No.: 40 dh

①

LEA COUNTY NEW MEXICO CASEY
 Well: BTA OIL PRODUCERS 1 Casey 8201 JV-P Result: D&A D
 Loc'n: 8 mi SE/Lovington; 1980'FNL, 660'FEL Sec 27-16S-37E
 Unit H

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Spud: 3-3-84; Comp: 4-7-84; Elev: 3778' Grd; TD: 11,566' Penn
 Casing: 13-3/8" 500' / 600sx; 8-5/8" 4399' / 3200sx
 Comp Info: DST (Strawn) 11,300-450', op 1 hr 10 mins, rec 1500'
 HGCWCUSH + 250' HGCDFLUD, 10 min IFP 966-1029, 1 hr ISIP 3946,
 1 hr FFP 1385-1197, 2 hr FSIP 3592, HP 5412-5139; DST (Strawn)
 11,452-478', op 1 hr 10 mins, rec 1500' SGCWCUSH + 4266' SGCFWTR,
 10 min IFP 1233-1574, 1 hr ISIP 4073, 1 hr FFP (NR), 2 hr FSIP
 3972, HP 5520-5489; DST (Strd) (Abo) 8566-8769', op 1 hr 10 mins,
 rec 270' DFLUD + 270' WCDFLUD + 5830' FWTR, 10 min IFP 1285-1306,
 1 hr FSIP 3083, 1 hr FFP 1705-2729, 2 hr FSIP 3083, HP 4104-
 4000, BHT 124 deg; C/Qualres #15
 Tops EL: Rustler 2145', Yates 3250', San And 4924', Glorieta 6297',
 Paddock 6383', Tubb 7858', Drinkard 7982', Strawn 11,411'
 API No: 30-025-28559



Petroleum Information®
 CORPORATION
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Date: 6-13-84 Card No.: 12 1p

2

CONTR	Warton	OPR'S ELEV	3778' GL, 3792' KB PD	11,800' RT
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②

10-1-10 NM

②

10-1-10 NM

(3) **Petroleum Information**
 COUNTY **LEA** FIELD **Wildcat** STATE **NM**
 OPER **C & K PETROLEUM, INC.** API **30-025-24876**
 NO **1** LEASE **Shipp "27"** SERIAL
Sec 27, T-16-S, R-37-E Unit C MAP
660' FSL, 1980' FEL of Sec CO-ORD
2 mi S & 6 mi E/Lovington ELEV **1** LBS
 SPD **10-23-74** CMP **1-15-75** WELL CLASS: **INT** **WF** FIN **WFD**
 CS6
 13 3/8" at 467' w/450 sx
 8 5/8" at 4712' w/600 sx
 5" at 12,400' w/1300 sx
 TD **12,400' (MSSP)** PBD **11,800'**
 IP (Strawn) Perfs 11,328-405' F 412 BOPD. Pot based on 24 hr test thru 18/64" chk. GOR 1004; Grav 44; TP 700#

CONTR **Cactus** OPR'S ELEV **3776' GL** PD **12,000' RT**

- (3) F.R. 10-14-74
 (Strawn)
 10-29-74 TD 3324'; Trip
 11-4-74 TD 4712'; WOC
 11-11-74 TD 6610'; Trip
 11-12-74 Drlg 6920' 1m
 11-18-74 Drlg 8492' 1m
 12-3-74 Drlg 9947' 1m
 12-9-74 Drlg 10,626'
 12-10-74 TD 10,831'; Trip
 DST 10,283-305', open 1 hr 15 mins, rec 5820'
 sulf WCDM + 4125' sulf wtr, 1 hr ISIP 4452#, FP 4452-4452#, 2 hr FSIP 4452#, HP 4630-4630#
 12-16-74 Drlg 11,621' 1m & sh

(3) LEA Wildcat NM
 C & K PETROLEUM, INC. 1 Shipp "27" Page #2
 Sec 27, T16S, R37E

- 12-30-74 TD 12,400'; WOO
 DST 11,382-650', open 1 hr, GTS in 34 mins
 @ 47 MCFGPD, rec 356' oil + 325' HO&GCM,
 1 hr 30 min ISIP 4203#, FP 234-387#, 3 hr FSIP 4203#
 1-6-75 TD 12,400'; PBD 11,800'; MICU
 1-13-75 TD 12,400'; PBD 11,800'; Tstg
 Perf @ 11,328', 11,329', 11,337', 11,343',
 11,349', 11,350', 11,355', 11,357', 11,369',
 11,379', 11,381', 11,393', 11,395', 11,405'
 w/1 SPI
 Acid (11,328-405') 500 gals
 Flwd 21 BO in 8 hrs thru 18/64" chk, TP 800# (11,328-405')

- (3) 1-21-75 TD 12,400'; PBD 11,800'; SI Storage
 Acid (11,328-405') 1500 gals
 Flwd 13 BO thru 16/64" chk
 1-28-75 TD 12,400'; PBD 11,800'; SI Storage
 2-3-75 TD 12,400'; PBD 11,800'; Tstg
 Flwd 100 BO in 14 hrs thru 16/64" chk,
 Chk plugged, changed to 18/64" chk,
 TP 800# (11,328-405')
 2-10-75 TD 12,400'; PBD 11,800'; WO OCC Pot
 Flwd 412 BO in 24 hrs thru 18/64" chk,
 GOR 1004, TP 700# (11,328-405')
 2-17-75 TD 12,400'; PBD 11,800'; COMPLETE
 Strawn Discovery - No Suggested Field Name
 LOG TOPS: Anhydrite 2100', San Andres 4858',
 Glorieta 6244', Tubb 7918', Abo 8570',
 Strawn 11,325', Atoka 11,760', Mississippian 12,372'
 2-22-75 COMPLETION REPORTED

Sec. 27-T16S-R37E

④ LEA COUNTY NEW MEXICO CASEY FIELD

Well: C & K PETROLEUM INC, 2 Shipp "27" Result: OIL DO

Loc'n: 8 mi SE/Lovington; 660' FSL, 660' FEL Sec 27-16S-37E

Unit P PB: 11,502'

Spud: 11-20-82; Comp: 2-10-83; Elev: 3772' Grd; TD: 11,570' Strn

Casing: 13-3/8" 405'/500 sx; 8-5/8" 4306'/2900 sx; 5 1/2" 11,570' 550 sx; 2-7/8" 11,423'

Prod Zone: (Strawn), Prod thru Perfs 11,373-439'

IPF: 417 BOPD 18/64" ch, Grav 44, GOR 1605, CP 900#, TP 320#

Comp Info: ran CNL, FDC, DILL, GRNL, CBND logs; Perf (Strawn) 11,446-457'/1 SPF, A/500 gals; S/20 BO & 20 BW/3 hrs; sqzed 150 sx; Perf (Strawn) 11,426-439'; S/31 BO & 102 BW/10 hrs; Perf (Strawn) 11/11,373-396'; A/5000 gals; C/Quarles #2

Tops EL: Rustler 2118', Yates 3200', San Andres 4868', Glorieta 6282', Paddock 6418', Tubb 6780', Drinkard 7904', Abo 8268'

Wolfc 9822', Penn 10,350', Strawn 11,316'

API No: 30-025-27957

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Petroleum Information®

CORPORATION
A Subsidiary of A.C. Neilson Company

Date: 3-16-83 Card No.: 38 dh

① LEA COUNTY NEW MEXICO LOVINGTON NE FIELD

Well: AMERIND OIL 2 Carter Result: OIL DO
Loc'n: 5 mi SE/Lovington; Sec 28-16S-37E Sur; 1330' FNL 1980' FEL of Unit B
Sec

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Spud: 5-12-85; Comp: 6-20-85; Elev: 3788' Grd, 3804' KB; TD: 11,750' ATOK;
PB: 11,698'
Casing: 13-3/8" 390' / 360sx; 8-5/8" 4200' / 1800sx; 5-1/2" 11,745' / 350sx;
2-7/8" 11,267'
Prod Zone: (Pennsylvanian) Prod thru Perfs 11,371-393'
IPF: 389 BOPD + 25 BW; 24 hr test thru 40/64" chk, GOR 1542,
gty 43, CP Pkr, TP 60
Comp Info: Ran DLL, MSFL, CNL, DENL, BHC, SONL; DST (Lower
Strawn) 11,365-476', op 2 hrs 30 mins, GTS in 13 mins, rec
6176 FT OIL + 542 FT SWTR (chl 55,000 ppm) (Sample Chamber
rec 825 CC OIL + 50 CC SWTR + 2.772 CFT GAS) 1 hr 30 min
IFP 61-1328, 1 hr ISIP 2527, 1 hr FFP 1186-1753', 2 hr FSIP
2588, HP 5522-5542', BHT 162 deg; No Cores; Perf (Lower
Strawn) @ 11,371, 11373, 11,375, 11,377, 11,379, 11,381,

Petroleum Information® (Cont'd on Card 39-A)
CORPORATION
A Subsidiary of A.C. Nielsen Company Date: 8-7-85 Card No.: 39

① LEA COUNTY NEW MEXICO LOVINGTON NE FLD

Well: AMERIND OIL 2 Carter OIL DO
Loc'n: 5 mi SE/Lovington; Sec 28-16S-37E Sur; 1330 FNL 1980 FEL
of Sec

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(Cont'd from Card 39)

Comp Info: Cont'd; 11,383, 11,385, 11,387, 11,389, 11,391,
11,393 w/1 SPI; S/66 BLW/5 hrs w/NS; A/2000 gals (MOD);
F/389 BO + 27 BW + 600 MCFG/24 hrs thru 40/64 chk; Rig
Rel 6-8-85; C/Landis Drlg
TOPS: (EL) Rustler 2180, Salt 226, Yates 3193, San Andres
4933, Paddock 6340, Abo 8486, Cisco 10,470, Canyon 10,838
API No: 30-025-29248

Petroleum Information®
CORPORATION
A Subsidiary of A.C. Nielsen Company Date: 8-7-85 Card No.: 39-A

② LEA COUNTY NEW MEXICO LOVINGTON, NE. FIELD

Well: AMERIND OIL 1 Speight Result: OIL DO
Loc'n: 6 mi SE/Lovington; Sec 28-16S-37E; 660' FNL 510' FWL of Sec; Unit D 11,452'

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Spud: 8-18-84; Comp: 10-23-84; Elev: 3802' Grd; TD: 11,500' Strn; PB:
Casing: 13-3/8" 379' / 520sx; 8-5/8" 4200' / 1900sx; 5 1/2" 11,494' / 300sx;
2-7/8" @ 11,164'
Prod. Zone: (Penn) T/Pay 11,312', Prod Perfs 11,312-11,366'
IPF: 311 BOPD + 2 BW, 40/64" ch, GOR 1190, Grav 44, CP Pkr, TP 80#;
Comp Info: DST (Strawn) 11,300-380', op 63 mins, GTS/16 1/2 mins @
26.1 MCF GPD, decr to 14.3 MCF GPD @ end of test, rec 100' VH GCM
& 580' VHC & SOCM, IFP 558-283# / 3 mins, ISIP 1968# / 1 hr, FFP 223-
231# / 1 hr, FSIP 1966# / 2 hrs, HP 5476-5476#; BHT 160°; No Cores;
Ran BHCS, DLL, MSFL, CNL, LDT; Perf (Strawn) @ 11,312', 314', 316',
318', 330', 332', 334', 344', 346', 348', 350', 352', 354', 356', 358',
360', 362', 364', 366' w/1 SPF; A/5000 gals; Frac w/20,000 gals
20% acid & 75 tons CO2, No Sd; C/Hondo #3.
Tops: (EL) San And 4840', Glor 6273', Paddock 6370', Tubb 7753',
Drink 7864', Abo 8441', Penn 9980', Cisco 10,405', Cany 10,755',
L/Strawn 11,230'. API No: 30-025-28843

Petroleum Information®
CORPORATION
A Subsidiary of A.C. Nielsen Company Date: 11-14-84 Card No.: 10 bc

(3)

LEA COUNTY SE NEW MEXICO LOVINGTON NEW FLD
Well: AMERIND OIL 2 Speight Result: OIL DO
Loc'n: 5 mi SE/Lovington; Sec 28, T16S, R37E; 1830 FNL, 1980 FWL of
Sec API No: 30-025-29304 Unit F

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REPRODUCTION PROHIBITED

Spud: 6-28-85; Comp: 8-21-85; Elev: 3790GR, 3805KB; TD: 11,675ATOK;
PB: 11,620
Casing: 13 3/8-408-400 sx; 8 5/8-4200-2025 sx; 5 1/2-11,665-
250 sx; 2 7/8-9500
Prod Zone: (Pennsylvanian) Prod thru Perfs 11,331-11,339
IPP: 41 BOPD + 1 BW; 24 hr test; GOR 951; gty 43
Comp Info: DST (Strawn Lower) 11,300-11,432, oplhr 10mins, rec 50FT
OIL+170FTGCM+9500FTGAS (chl 7000ppm) (Sample chamber recl. 673
CFTGAS+20CCOIL+630CCMUD) 10min IFP 136-117, 1hr 30min ISIP 973, 1
hr FFP 175-117, 3hr FSIP 1304, HP 5275-5216, BHT 162deg; No Cores;
Perf (Strawn Lower) 11,331-11,339w/32shots; A/3000gals (MOD-202);
Swbd 5BO+18BLW in 7hrs (11,331-11,339); F/28,000gals gel, nosd;
RAN: DI, CNDL; C/Landis Drlg
TOPS: Rustler 2102, Salt 2195, Yates 3192, San Andres 4824, Glorieta
6230, Paddock 6334, Tubb 7712, Drinkard 7807, Abo 8449, Cisol 10,375,
Petroleum Information® Canyon 10,796, Strawn Lower 11,287, Atoka
CORPORATION 11,585 Date: 10-2-85 Card No.: 26
A Subsidiary of A.C. Nielsen Company



LEA COUNTY NEW MEXICO UNDESIGNATED

Well HARVEY E. YATES 1 Burton Result: OIL DO
Loc'n 5 mi SE/Lovington, 1980' FSL, 1980' FEL Sec 28-16S-37E
(4) Unit J

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REPRODUCTION PROHIBITED

Spud: 5 2-79; Comp: 10-1-79; Elev: 3786' Grd; TD: 11,700' Penn; PB: 9625'
Casing: 13-3/8" 400'/425sx; 8-5/8" 4323'/1630sx; 5-1/2" 11,700'/1100sx
Prod Zone: (San And), T/Pay 5090', Prod thru Perfs 5090-5100'
IPP: 23 BOPD + 5 BW, Grav NR, GOR NR
Comp Info: DST (Penn) 10,740-874', op 1 hr 30 mins, rec 724' DF +
376' muddy SW, 1 hr ISIP 3775#, FP 346-576#, 3 hr FSIP 3685#,
HP 4921-4899#, BHT 160 deg; DST (Penn) 11,253-273', op 1 hr, rec
120' DM, 1 hr 32 min ISIP 1910#, FP 53-61#, 3 hr FSIP 3139#, HP
5078-5091#, BHT 165 deg, Perf (Strawn) 10,744-784', A/1500 gals,
Perf (Penn) 11,262-272', A/1500 gals, S/12 1/2 BO + 68 BLW + 12 BFW
w/fair SG, S/8 BO + 10 BW, PB to 10,596', Perf (Penn) 10,500-507',
10,556-574', A/2500 gals, S/140 BLW w/NS/6 hrs, Sqzd 10,500-574'
w/250sx, DOC to 10,500', Perf (Penn) 10,333-340', S/88 BFW, PB to
962', Perf (San And) 5090-5100', Ppd 20 BO + 8 BW/11 hrs 30 mins
Frac fluid + 6000#sd, C/Moranco #2 Tops: NR



Petroleum Information® API No: 30-025-26237
CORPORATION Date: 10-31-79 Card No.: 7 gb
A Subsidiary of A.C. Nielsen Company

5 FULL MEASURE STATE 829 KRUEBLEIN 232-53
 COMPANY Shell - #1 - Home State ELEV. 3799'

LOC. 660' FSL & FWL of sec. Unit M
 Sec. 28; 16S; 37E,

ACID OR BHDT	CASINO RECORD	TOPS
	13-3/8 355 375 9-5/8 4792 2406	S.A. 4740 Glor 5110 S.A. 4744 Glor 5110 Tubb 7690 Abo 8430 W.O. 9680 Strawn 11,166 Miss 11,922
SPD. 4-10-53	COMP. 8-2-53	TP
I. P. P&A		TD 12,125' lime.
GR. BOR TP CP		PSD
REMARKS	CONT'D ON PAGE 2	

5 LEA, NEW MEXICO 28-16S-37E K-232-53
 Shell - #1 - Home State PAGE 2

DST 5254-5455 op 1 hr. 30 mins, rec. 300' mud, N.S.
 PP 300 20 mins, SIP 1750#
 Crd. 6225-60 rec. 36' being 16' tan to gray dol. bleed oil &
 wtr. good odor stain of flour. 1' shale. 18' tan to
 gry dol fractured bleed oil gas & wtr. stain & odor
 1' gdy dol.
 DST 6208-6280 op 3 hrs. Gas 1 hr. rec. 315' HOACCH,
 PP 150 30 mins SIP 525#
 Crd. 6280-6334 rec. 54' being 6' silty dol, 7' dol. sd.
 41' hrd gry dol fract. bleed oil & KM.
 DST 6279-6334 op 1 hr. rec. 40' mud PP-0- 30 min
 SIP 550#

6 LEA COUNTY NEW MEXICO LOVINGTON FIELD
 Well: C & K PETROLEUM INC, 1 Shipp "28" Result: OIL DO
 Loc'n: 7 mi SE/Lovington; 660' FSL, 660' FEL Sec 28-16S-37E Unit P
 Spud: 3-14-82; Comp: 6-28-82; Elev: 3783' Grd; TD: 11,650' Atoka;
 Casing: 8-5/8" 4340' / 1300 sx; 5 1/2" 11,650' / 900 sx; 2-3/8" 8626'
 Prod Zone: (Atoka), T/Pay 8579', Prod thru Perfs 8579-84'
 IPP: 29 BOPD + 72 BW, Grav 44, GOR TSTM
 Comp Info: DST (Strawn) 11,360-464' pkr failed; Perf (Strawn)
 11,342-356' / 1 SPF, A/2720 gals; Swbd wtr w/NS; sqze 100 sx;
 DO 11,460'; Perf (Strawn) 11,406-414' / 2 SPF, A/450 gals; S/
 100% wtr; sqzd 100 sx; PB 11,142'; Perf (Abo) 8579-84' / 2 SPF
 A/3000 gals; S/7 BO & 71 BW/10 hrs; C/Parker 34; Rig Rel
 4-18-82; ran CNL, FDC, DILL, CBN D, GRL, CCL logs
 Tops EL: SanAnd 4800', Glorieta 6148', Paddock 6290', Tubb 7746'
 Drinkard 6860', Abo 8208', Wolfc 9648', Penn 10,062', U/Strawn
 11,228', L/Strawn 11,264', Atoka 11,584'
 API No: 30-025-27763

① LEA E. LOVINGTON STATE N.M. KROENLEIN 230-54
PENN.
Gulf Oil Corp. - #1 - Lea State "BV" Elev. -
660' FNL & 1980' FNL Unit C
Sec. 29, T. 16-S, R. 37-E

Casing Record		Tops	
13 3/8- 379- 600	Anhy.		2090
8 5/8-4999-2700	Yates		3210
	Abo		8365
	Tubb		7670
	Glor		6225
8-5-54	10-19-54		
P & A			
CONT'D. PAGE 2.			
	TP		
	TD		11,422 Ls.
	PWD		

① LEA, N.M. 29-16-37 K-230-54
Gulf Oil Corp. - #1 - Lea State "BV". PAGE 2.

DST / 11,185-247 op. 1 hr., rec. 35' mud; PP 30;
SIP 30/15".
DST 2 11,247-326 op. 1 hr., rec. 20' mud; PB 10,820.
DST 3 10,700-820 op. 2 hrs., gas 30 mins. TSTM;
rec. 100' GCM, 8500' XW; PP 1690-4785;
SIP 4340/15.

②

LEA COUNTY NEW MEXICO LOVINGTON, NE
Well: AMERIND OIL CO, 1 Wiser/Cal-Mon State Result: D & A D
Loc'n: 6 mi SE/Lovington; 2080' FNL, 1880' FEL Sec 29-16S-37E
Unit G
Spud: 10-6-83; Comp: 11-4-83; Elev: 3815' KB; TD: 11,485' Atoka
Casing: 13-3/8" 406'/420 sx; 8-5/8" 4218'/1200 sx
Comp Info: ran FDC, CNL, DI, SONL Logs; DST (Paddock) 6270-6400'
op 45 mins, rec 60' HO&GCM (sampler rec 900 cc GCDF w/tr oil
@ 300), ISIP 170#/30 mins, FP 85-94#, FSIP 323#/2 hrs 30 mins
HP 2845-2845#; DST (L/Strawn) 11,175-11,430', op 1 hr 15 mins
rec 90' DM, 1076' WC (sampler rec 2260' cc DM), ISIP 867#/1 hr
FP 665-665#, FSIP 890#/2 hrs, HP 5397- 5397#; C/Hondo #3
Tops EL: Rustler 2126', Salt 2177', B/Salt 2231', Yates 3156'
San And 4827', Glorieta 6170', Paddock 6252', Tubb 7650',
Drinkard 7807', Abo 8405', Wolfe 9764', Penn 10,202, Cisco
10,341', Canyon 10,710', Strawn 11,150', Atoka 11,418'
API No: 30-025-28383

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③ CO. LEA POOL LOVINGTON-STATE N.M. KRÖENLEIN ✓
 PADDOCK
 COMPANY Tom Brown Drilg. Co., Inc. - #2 - Shipp
 how jet oil ELEV.
 LOC. 330' FSL & 1980' FEL Unit O Cum 1983 46432
 Sec. 29, T.16-S, R.37-E 1983: 1758 P, 2597 G, 11 WH.
 6400' RT-Paddock

PAY STIMULATION PERF: 6222-6333	CASING 8 5/8-2026- 700 4 1/2-6401- 533	TOPS Anhy. 1695 Yates 3105 S.And 4735 Glor 6112
SPD. 11-11-66	COMP. 12-2-66	
I. P. P. 90 BOPD + 2.0 BW		
GR. 38. GOR	TP	CP
Perf 1 SPI: 6222, 6238, 6252, 6255, 6261, 6276, 6290, 6300, 6305, 6309, CONT'D. PAGE 2.	TP 6222 (Padd.) TD 6401 PBD 6364	

③ LEA, N.M. B-29-16-37
 Tom Brown Drilg. Co., Inc. - #2 - Shipp PAGE 2.
 Perfs cont'd.: 6323, 6326, 6333; 3000 gal.
 acid/6222-6333¹; 20,000 Frac (20,000#
 sd)/6222-6333¹.

④ CO. LEA POOL LOVINGTON-STATE N.M. KRÖENLEIN ✓ B-29-16-37
 PADDOCK
 COMPANY Tom Brown Drilg. Co., Inc. - #1 - Shipp
 how jet oil ELEV. 3792 GR
 LOC. 330' FSL & FEL Unit P Cum 1983: 101657
 Sec. 29, T.16-S, R.37-E 1983: 3164 P, 1400 G, 12 WH.
 6400' RT-Padd.

PAY STIMULATION PERF: 6222-6323	CASING 7 -2100- 375 4 1/2-6400- 500	TOPS Anhy. 2040 B.Salt 3240 Yates 3298 S.And 4742 Glor 6090 Padd 6150
SPD. 4-18-66	COMP. 5-17-66	
I. P. P. 87 BOPD + 29 BW		
GR. 38. GOR	TP	CP
Perf 1 SPI: 6222, 6224, 6247, 6251, 6261, 6287, 6292, 6299, 6311, 6319, 6323; 3000 acid; 20,000 Frac (20,000#sd) 6222-6323 ¹ .	TP 6222 (Padd.) TD 6400 PBD 6358	

① CO. LEA POOL LOVINGTON- STATE N.M. KROENLEIN 241-
PADDOCK

COMPANY Tidewater Oil Co. - #3 - B. E. Shipp ELEV. 3804
KB

LOC. 660' FNL & FEL Unit A
Sec. 32, T.16-S, R.37-E
6400' RT

PAY STIMULATION	CASING	TOPS
Perf: 6166- 6337	8 5/8-2096- 885 5 1/2-6402-1685	Anhy. 2034 Yates 3121 S. And 4713 Glor. 6080 Padd. 6178

SPD. 4-23-65 COMP. 5-27-65

I. P. P. 73 BOPD

GR. 34.4 GOR 425 TP CP TP 6166(Padd.)
REMARKS: Perf 1 SPI: 6166, 6170, 6225, TD 6403
6236, 6246, 6277, 6285, 6289, PBD 6366
6300, 6337; 2000 acid; 10,000 Frac (10,000#sd).

CO. LEA POOL LOVINGTON- STATE N.M. KROENLEIN 241-
PADDOCK

COMPANY Tidewater Oil Co. - #4 - B. E. Shipp ELEV. 3797

LOC. 660' FNL & 1980' FEL Unit B
Sec. 32, T.16-S, R.37-E
6400' RT-Paddock

PAY STIMULATION	CASING	TOPS
Perf: 6156- 6292	8 5/8-2100- 912 5 1/2-6399-1700	Anhy. 2020 Yates 3112 S. And 4708 Glor 6093 Padd 6194

SPD. 5-15-65 COMP. 6-14-65

I. P. P. 138 BOPD

GR. 35.7 GOR 986 TP CP TP 6156(Padd.)
REMARKS: Perf 1 SPI: 6156, 6162, 6178, TD 6400
6193, 6205, 6210, 6265, 6270, PBD 6362
6276, 6287, 6292; 2000 acid; 10,000 Frac (10,000#sd.)

CO. LEA ③ POOL LOVINGTON- STATE N.M. KROENLEIN 241-
PADDOCK

COMPANY Tidewater Oil Co. - #2 - B. E. Shipp ELEV. 3800
DF

LOC. 1980' FNL & 660' FEL Unit H
Sec. 32, T. 16-S, R.37-E
6300' RT-Padd.

PAY STIMULATION	CASING	TOPS
Perf: 6152- 6329	8 5/8-2102-1370 5 1/2-6399-1450	Anhy. 2053 Yates 3082 S. And 4680 Glor. 6081 Padd. 6160

SPD 12-29-64 COMP. 2-6-65

I. P. P. 123 BOPD + 9 BW

GR. 34.2 GOR 236 TP CP TP 6152
REMARKS: Perf 1 SPI: 6152, 6174, 6212, TD 6400
6230, 6236, 6273, 6287, 6295, PBD 6367
6308, 6329; 2000 acid; 10,000 Frac (10,000#sd);
reA/3000 gal/6152-6329'.

①

LEA COUNTY S E NEW MEXICO CASEY FIELD
Well: AMERIND OIL 1 Shipp Result: OIL DO
Loc'n: 8 mi SE/Lovington; nw ne Sec 33, T16S, R37E Sur; 660 FNL,
1980 FEL of Sec Unit B

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Spud: 10-28-85; Comp: 12-12-85; Elev: 3784 GR, 3798 KB;
TD: 11,532 STRN; PB: 11,472
Casing: 13 3/8-390-425 sx; 8 5/8-4198-1725 sx; 5 1/2-11,531-
350 sx; 2 7/8-11,169
Prod Zone: (Strawn) Prod thru Perfs 11,259-11,322
IPF: 553 BOPD. 24 hr test thru 22/64 chk. GOR 709; gty 43;
CP Pkr; TP 600
Comp Info: DST (Strawn Lower) 11,225-11,299, op 1 hr 10 mins,
GTS in 9 mins, rec 30 Bbls HGCO, rev out 30 Bbls Clean
OIL (Sample chamber rec 1120 CC OIL + 8.1 CFT GAS), 10
min IFP 1122-1164, 1 hr ISIP 3710, 1 hr FFP 1059-1962,
3 hr FSIP 3689, HP 5230-5189, BHT 164 deg @ 11,208; No
Cores; RAN: DI, LATL, CDL, NEUT, BHC, SONL; Perf (Strawn)

P

Petroleum Information

(Cont'd on Card #36-A)

Date: 02-26-86 Card No.: 36

①

LEA COUNTY S E NEW MEXICO CASEY FIELD
Well: AMERIND OIL 1 Shipp Result: OIL DO
Loc'n: 8 mi SE/Lovington; nw ne Sec 33, T16S, R37E Sur; 660 FNL,
1980 FEL of Sec

(Cont'd from Card #36)

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@11,259, 11,262, 11,271, 11,273, 11,280, 11,283, 11,286,
11,296, 11,299, 11,305, 11,307, 11,313, 11,316, 11,319,
11,322 w/1 SPI; A/2850 gals MOD 202; C/Hondo Drlg
TOPS: Rustler 2032, Salt 2127, Yates 3084, San Andres 4731,
Glorieta 6135, Paddock 6183, Tubb 7643, Abo 8090, Cisco
10,393, Canyon 10,566, Strawn Lower 11,266
API No: 30-025-29462

P

Petroleum Information

Date: 02-26-86 Card No.: 36-A

②

CO. LEA POOL LOVINGTON- STATE N.M. KROENLEIN229-
PADDOCK
COMPANY John L. Cox - #3 - Meyers
LOC. 660'FNL & FWL Unit D ELEV. 3798
Sec. 33, T.16-S, R.37-E DF
6400'RT

PAY STIMULATION	CASING	TOPS
Perf: 6198- 6250	8 5/8- 350- 200 4 1/2-6318- 700	Yates 3050 S.And. 4700 Glor. 6085
SPD. 9-30-64 COMP. 11-3-64		
I. P. P. 70 BOPD + 5 BW		
GR. 34. GOR 330 TP CP		TP 6198(Padd.) TD 6318 PBD
REMARKS: Perf 2SPF: 6198-6202, 6218- 6226, 6244-50; 1000 acid; 15,000 Frac (15,000#sd.).		

Sec. 33-T165-R37E

Co. LEA POOL LOVING STATE N.M. KROENLEIN 229-

(3)

COMPANY John L. Cox - #1 - Meyers

LOC. 1980'FNL & 660'FWL Unit E
Sec. 33, T.16-S, R.37-E
6400'RT-Paddock

ELEV.

PAY STIMULATION	CASING	TOPS
Perf: 6164- 6230 3000 acid 10,000 Frac (6000# sd.)	8 5/8- 365- 300 5 1/2-6300-1100CF	Yates 3055 S.And. 4685 Glor 6070 Padd. 6190
SPD. 11-8-63	COMP. 12-23-63	
I. P. P. 69 BOPD		
GR. 34. GOR 218 TP CP		TP 6164
REMARKS: Perf 2 SPF: 6164-68, 6182-88, 6200-06, 6212-18, 6224-30; 3000 acid, swb. 28bbls.NO/8 hrs.; 10,000 Frac.		TD 6300 PBD

Co. LEA POOL LOVINGTON- STATE N.M. KROENLEIN 229-

(4)

COMPANY John L. Cox - #2 - Meyers

LOC. 1980'FNL & FWL Unit F
Sec. 33, T.16-S, R.37-E
6400'RT-Padd.

ELEV. 3783
GR

PAY STIMULATION	CASING	TOPS
Perf: 6186- 6252	8 5/8- 370- 250 4 1/2-6320-1000	Padd. 6200
SPD. 4-18-64	COMP. 6-5-64	
I. P. P. 54 BOPD		
GR. 34. GOR 278 TP CP		TP 6186
REMARKS: Perf: 6186-90, 6224-28, 6236-52; 3000 acid.		TD 6320 PBD

Co. LEA POOL LOVINGTON- STATE N.M. KROENLEIN 229-

(5)

COMPANY John L. Cox - #1 - Shipp

LOC. 1980'FNL & FEL Unit G
Sec. 33, T.16-S, R.37-E
6400'RT-Padd.

ELEV.

PAY STIMULATION	CASING	TOPS
	8 5/8- 340- 300	
SPD. 6-21-64	COMP. 7-6-64	
I. P. Junked & Aband.		
GR. GOR TP CP		TP
REMARKS: (caving - lost hole).		TD 4075 PBD

6 Co. LEA Pool LOVINGTON- STATE N.M. KROENLEIN 22' Paddock

COMPANY John L. Cox - #2 - Shipp

LOC. 2055' FNL & 1980' FEL Unit G
Sec. 33, T.16-S, R.37-E
6400' RT-Padd.

ELEV.

PAY STIMULATION	CASING	TOPS
Perf: 6202- 7 -2090- 550		Anhy. 2045
6266 4 1/2-6320- 700		Yates 3085
		Glor 6115

SPD. 7-8-64 COMP. 8-18-64

I. P. P. 36 BOPD + 4 bbls. wtr.

GR. 34. GOR - TP CP

REMARKS: Perf 2SPF: 6202-06, 6218-6227, 6236-40, 6258-66; 3000 acid; 15,000 Frac (15,000# sd.)

TP 6202(Padd.)
TD 6320
PBD

7 LEA COUNTY NEW MEXICO CASEY FIELD

Well: TEXACO INC, 1 Lee Carter Result: OIL DO

Loc'n: 7 mi SE/Lovington; 1980' FNL, 660' FEL Sec 33-16S-37E Unit H 11,455'

Spud: 10-21-82; Comp: 1-25-83; Elev: 3778' Grd; TD: 11,515' Strn; PB: 2400 sx; 2-7/8" 11,273'

Casing: 13-3/8" 377'/550 sx; 8-5/8" 4800'/2650 sx; 5 1/2" 11,515'/2400 sx; 2-7/8" 11,273'

Prod Zone: (Strawn), Prod thru Perfs 11,220-289'

IPP: 43 BOPD + 16 BW, Grav 43.3, GOR 593

Comp Info: Perf (Strawn) 11,220-224, 11,232-245, 11,262-268', 11,285-289'/2 SPF, A/2500 gals; S/1 BO & 65 BLW w/GSG/8 hrs 30 mins, Perf (Strawn) 11,220-289', A/2500 gals; S/3 BO & 1 BSW/1 hr, A/8000 gals; S/1 45 BW/6 hrs; P/24 BW/12 hrs; C/ Hondo #3

Tops EL: Rustler 2084', Salt 2146', B/Salt 2989', Yates 3102' Seven Rivers 3372', Queen 3991', Grayburg 4438', San Andres 4745', Glorieta 6130', Paddock 6220', Tubb 7627', Drinkard 7780', Abo 8055', Wolfc 10,097', Penn 10,818', Canyon 10,946'

API No: 30-025-27927

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

Date: 3-2-83 Card No.: 22 dh

7 LEA COUNTY NEW MEXICO KNOWLES W FIELD

Well: TEXACO, INC., 1 Lee Carter OWWO Unit H Result: OIL DO

Loc'n: 7 mi SE/Lovington; Sec 33-T16S-R37E; 1980' FNL, 660' FEL of Sec (Orig Cmp 1-25-83 thru (Strawn) Perfs 11,220-11,289, OTD 11,515, OPB 11,455)

Spud: 5-1-83; Comp: 6-5-83; Elev: 3778' GL; TD: 11,515' Strawn; PB: 8569

Casing: 13-3/8" 377'/550sx; 8-5/8" 4800'/2650sx; 5 1/2" 11,515'/2400sx

Prod Zone: (Drinkard), prod thru perfs 7782-7937'

IPP: 71 BOPD + 25 BW, GOR 971, Grav NR

Comp Info: Perf (Strawn) 11,370-11,380w/2SPR, A/1000gals, CIBP @ 11,455, A/10,000gals, P/43BO+16BW/24hrs, CIBP @ 11,150; Perf (Wolfc) 10,586-10,620, A/1500gals, CIBP @ 10,500; Perf (Abo) 10,030, A/2000gals, Ret @ 9920, Sqzd 50sx; Perf (Abo) 8625-8787, A/3000gals, Ret @ 8569, Sqzd 150sx; Perf (Drink) 7782-7937, frac 16,000gals+12,000gals gel wtr+12,000# sd.

Tops EL: NR

API No: 30-025-27927

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

Date: 12-21-83 Card No.: 44 dm

Replaces card 22 dated 3-2-83 for additional information

Sec. 33-T165-R37E

(8)

LEA COUNTY NEW MEXICO CASEY
Well: TXO PROD, 1 Carter "F" Result: D & A D
Loc'n: 8 mi SE/Lovington; 1980'FSL, 660'FEL Sec 33-16S-37E
Unit I

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Spud: 1-16-85; Comp: 3-11-85; Elev: 3772' Grd; TD: 11,450' Strawn
Casing: 13-3/8" 429'/525 sx; 8-5/8" 4761'/1433 sx
Comp Info: no cores or DSTs; C/Wilson Bros #8
Tops EL: Rustler 2100', Yates 3100', Queen 4745', San And
5747', Paddock 6200', Tubb 7660', Drinkard 7866', Abo 8345', Wolfc
9740', Strawn 11,186', Atoka 11,405'
API No: 30-025-29104

Re-Issued for EL/Tops; replaces card 13 dated 4-17-85



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Date: 5-15-85 Card No.: 17 dh

Unit A

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②

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CONTR	Robinson beam	OPR'S ELEV	3775' GL	3788' KE PD	11,700' RT
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②

6-4-6 NM

cont. next page

(2)

LEA
MESA PETROLEUM CO.

Casey
4 West Knowles
Sec 34, T16S, R37E

NM
Page 2

5-13-75 TD 10,240'; WOC
Lost Circ @ 10,187 & dry drld to 10,240'
Spotted 500 sx cmt
5-20-75 TD 11,410' on DST
5-28-75 TD 11,900'; MORT
DST (Strawn) 11,302-410', open 1 hr 30 mins,
(1500' WB) GTS 9 mins, WBTS 15 mins, OTS 20
mins, Flwd oil & gas, No gauge thru 1/2" chk,
SFP 375#, rev out 40 BO + 10 BMCO, 1 hr 30 min
ISIP 3419#, FP 2526-3089#, 3 hr FSIP 3414#, HP
5164-5105#
6-3-75 TD 11,900'; Swbg
Perf (Atoka) 11,708-718', 11,742-746' w/2 SPF
Acid (11,708-746') 1500 gals

6-4-6 NM

(2)

6-9-75 TD 11,900'; PBD 11,615'; WO OCC Pot
Swbd 3 BLO + 8 BLW + Swbd down to 11,000'
(11,708-746')
PB to 11,615'
Perf (Strawn) 11,354-359', 11,365-382', 11,383-
396' w/1 SPF
Flwd 530 BO in 24 hrs, 28/64" chk, GOR 1245, TP
325# (11,354-396')
6-23-75 TD 11,900'; PBD 11,615'; Complete
LOG TOPS: Yates 3180', Queen 4088', San Andres
4828', Glorieta 6232', Tubb 7720', Drinkard
7868', Abo 8354', Wolfcamp 9852', Strawn 11,284',
Atoka 11,532'
6-28-75 COMPLETION ISSUED

6-4-6 NM

(3)

COUNTY LEA		FIELD Casey		STATE NM	
OPR C & K PETROLEUM, INC.		API 30-025-25053			
NO 1 LEASE Shipp 34 "A"		SERIAL 10-1-11 NM			
Sec 34, T-16-S, R-37-E		MAP			
660' FNL, 1980' FWL of Sec Unit C		CO-ORD			
2 mi S & 5 mi E/Lovington		ELEV		L.S.	
SPD 6-17-75 CMP 8-8-75		WELL CLASS: INT D		FIN DO	
13 3/8" at 375' w/350 sx 8 5/8" at 4195' w/650 sx 5 1/2" at 11,581' w/1275 sx		FORMATION		DATUM	
		TD 11,582' (PSLV)		PBD 11,434'	

IP (Strawn) Perfs 11,390-400' F 480 BOPD. Pot based on 24 hr
test thru 20/64" chk, GOR 1198, Grav 42.3, TP 565#

cont. next page

CONTR Warton OPR'S ELEV 3775' GL PD 11,500' RT

③ F.R. 6-16-75
(Strawn)
6-18-75 TD 375'; Prep Drill
6-26-75 Drlg 4642' lm
7-1-75 Drlg 6630' lm
7-9-75 TD 8384'; On DST 8004-8384'
7-16-75 Drlg 10,172'
/DST (Drinkard) 8004-8384', open 2 hrs 30 mins, rec
215' Slit O&G CDF, 1 hr 30 min ISIP 1308#, FP 257-
286#, 4 hr FSIP 2017#, HP 3732-3718#, BHT 132 deg
7-23-75 Drlg 11,342' lm & sh

10-1-11 NM

③ LEA Casey NM
C & K PETROLEUM, INC. 1 Shipp 34 "A" Page 2
Sec 34, T16S, R37E

7-30-75 TD 11,582'; MORT
DST (Strawn) 11,309-450', open 2 hrs 30 mins
(1600' WB) GTS 2 mins, WBTS 1 hr 1 min, OTS
1 hr 46 mins, rev out 11,200' gas & oil (Grav
42) & 100' wtr, 1 hr ISIP 3628#, FP 2223-3152#,
4 hr FSIP 3621#, HP 5070-5092#, BHT 150 deg
DST (Strawn) 11,465-520', Misrun
8-6-75 TD 11,582'; PBD 11,434'; Prep Perf
Perf (Strawn) 11,472-476' w/1 SPF
Acid (11,472-476') 500 gals
Swbd 1d + 75 BFW (11,472-476')
Sqzd 11,472-476' w/100 sx
8-13-75 TD 11,582'; PBD 11,434'; SI BHP
Perf (Strawn) 11,390-400' w/1 SPF

10-1-11 NM

③ 8-13-75 Continued
Acid (11,390-400') 500 gals
Flwd 250 BO in 13 1/2 hrs thru 12/64" chk, TP
565# (11,390-400')
8-26-75 TD 11,582'; PBD 11,434'; SI Storage
9-3-75 TD 11,582'; PBD 11,434'; Tstg
9-10-75 TD 11,582'; PBD 11,434'; Tstg
Flwd 480 BOPD in 24 hrs thru 20/64" chk, TP
565# (11,390-400')
Flwd 289 BO + 64 BW in 24 hrs thru 18/64" chk,
TP 425# (11,390-400')
9-17-75 TD 11,582'; PBD 11,434'; Tstg
Flwd 208 BO + 56 BW in 24 hrs thru 16/64" chk,
TP 375# (11,390-400')
9-23-75 TD 11,582'; PBD 11,434'; Tstg
Flwd 199 BO + 67 BW in 24 hrs thru 16/64" chk,
TP 325# (11,390-400')

10-1-11 NM

③ LEA Casey NM
C & K PETROLEUM, INC. 1 Shipp 34 "A" Page 3
Sec 34, T16S, R37E

9-29-75 TD 11,582'; PBD 11,434'; Complete
LOG TOPS: Anhydrite 2078', Yates 3132', San
Andres 4804', Glorieta 6193', Tubb 7730',
Drinkard 7894', Abo Shale 8445', Strawn
11,307'
10-4-75 COMPLETION ISSUED

④ LEA COUNTY CASEY STATE NM
 C & K PETROLEUM, INC. 30-025-25078
 2 LEASE Shipp 34 "A" 12-2-15 NM
 Sec 34, T-16-S, R-37-E
 2086' FNL, 2086' FWL of Sec Unit F
 2 mi S & 5 mi E/Lovington
 9-18-75 CMP 11-16-75 WELL CLASS: INT. D FIN DO
 13 3/8" at 375' w/600 sx
 8 5/8" at 4230' w/550 sx
 5 1/2" at 11,505' w/1090 sx
 TD 11,506' (PSLV) PBD 11,420'
 IP (Strawn) Perfs 11,318-350' F 193 EOPD. Pot based on 24 hr test thru 24/64" chk. GOR 1389; Grav 42; TP 200#

CONTR Warton OPR'S ELEV 3775' GL PD 11,506' RT

- ④ F.R. 7-26-75 (Strawn)
 12-13-75 AMEND FIELD NAME, PROPOSED DEPTH AND ZONE:
 Formerly reported as Knowles, W. and PD 8800' RT (Drinkard)
 9-24-75 Drlg 4138' 1m, anhy & salt
 10-1-75 TD 6385'; Prep DST
 10-8-75 Drlg 8342' 1m & sh
 DST (Paddock) 6300-85', open 30 mins, rec 35' DF, 1 hr ISIP 472#, FP 35-35#, 1 hr FSIP 509#, HP 2057-2057#, BHT 160 deg
 DST (Abo) 8205-8300', Mis-Run
 Drinkard? DST (Abo) 8015-8300', open 1 hr 30 mins, GTS in 11 mins @ TSTM, rec 250' oil + 1729' HO&GCM (Est 20-50% oil) (Leak in DP), 1 hr 30 min ISIP 3161#, FP 196-583#, 2 hr FSIP 3625#, HP 3625#
 12-2-15 NM

④ LEA Casey NM
 C & K PETROLEUM, INC. 2 Shipp 34 "A" Page #2
 Sec 34, T16S, R37E

- 10-14-75 Drlg 9756' 1m & sh
 SP-DST (Abo) 8130-8278', open 5 hrs, GTS in 30 mins, rec 90' MCO + 1050' HO&GCM (50% oil) + 130' wtr, 2 hr ISIP 3120#, FP 184-505#, 4 hr FSIP 3031#, HP 3610-3565#, BHT 132 deg
 10-22-75 TD 11,365'; On DST 11,300-365'
 10-29-75 TD 11,506'; WOCU
 DST (Strawn) 11,300-365', open 2 hrs 30 mins, rec 2833' oil + 1300' WB + 200' MCO&GCWB, 2 hr ISIP 3293#, FP 1051-1729#, 5 hr FSIP 3272#, HP 5039-5039#, BHT 155 deg
 11-5-75 TD 11,506'; WOCU
 11-12-75 TD 11,506'; Drlg Cmt
 12-2-15 NM

- ④ 11-17-75 TD 11,506'; PBD 11,420'; WO OCC Pot
 Perf (Strawn) 11,318-336', 11,340-350' w/2 SPF
 Acid (11,318-350') 500 gals
 Flwd 193 BO in 24 hrs thru 24/64" chk, GOR 1389; TP 200# (11,318-350')
 12-8-75 TD 11,506'; PBD 11,420'; Complete
 LOG TOPS: San Andres 4796', Glorieta 6200', Paddock 6300', Tubb 6989', Drinkard 7832', Abo 8191', Strawn 11,242'
 12-13-75 COMPLETION ISSUED

12-2-15 NM

5

LEA

Casey

NM

OPR

MESA PETROLEUM CO.

30-025-25156

NO

7

West Knowles

12-2-16 NM

Sec 34, T-16-S, R-37-E

1980' FNL, 2130' FEL of Sec Unit G

3 mi N & 6 mi W/Knowles

10-3-75

12-3-75

D

D

13 3/8" at 384' w/425 sx

8 5/8" at 4200' w/400 sx

FORMATION

DATUM

FORMATION

DATUM

TD 11,580' (ATOK)

PBD

DRY & ABANDONED

CONTR Robinson Bros. OPR'S ELEV 3773' GL, 3786' KB PD 11,700' RT

5

F.R. 11-3-75
(Strawn)

11-3-75 Drlg 3715' anhy

11-10-75 Drlg 6275' 1m

11-17-75 TD 8088'; On DST 7982-8088'
DST (Paddock) 6354-6435', open 2 hrs 30 mins,
rec 1954' GIDP + 5' oil + 90' O&GCW, 1 hr 30
min ISIP 2170#, FP 48-115#, 5 hr FSIP 1845#, HP
2832-2832#, BHT 123 deg

12-3-75 TD 11,580'; D&A
DST (Drinkard) 7982-8088', open 1 hr 10 mins, GTS
in 56 mins @ TSTM, rev out 30' sli OCM + 10' oil,
rec 45' OCDF on Top of Tool, 1 hr 30 min ISIP 1615#,
FP 152-215#, 2 hr 30 min FSIP 1615#, HP 3510-3532#,
BHT 147 deg

12-2-16 NM

5

LEA

Casey

NM

MESA PETROLEUM CO.

7 West Knowles

Page #2

Sec 34, T16S, R37E

12-3-75 Continued

DST (Strawn) 11,327-390', open 40 mins,
(1500' WB), rec WB + 40' DF, 1 hr 30 min
ISIP 1035#, FP 731-731#, 3 hr FSIP 933#, HP
5064-5090#

12-8-75 TD 11,580'; Dry & Abandoned
LOG TOPS: Yates 3180', Queen 4080', San
Andres 4824', Glorieta 6234', Paddock
6338', Tubb 7760', Drinkard 7902',
Drinkard "B" 7968', Wolfcamp 9850', Strawn
11,303', Atoka 11,518'

12-13-75 COMPLETION ISSUED

12-2-16 NM

IP (Drinkard) Perfs 8240-8320' F 752 BOPD. Pot based on 24
hr test thru 36/64" chk. GOR 719; Grav 38.9, TP 225#

7-3-16 NM

6 . .

7-3-16 NM

(7) 5-5-75: Continued
Drinkard "A" 8106', Drinkard "B" 8198, Abo 8410'
5-10-75 COMPLETION ISSUED

8

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CONTR	Warton	OPR'S ELEV	3775' GL	PD	8900' RT
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③

F.R. 4-21-75
(Drinkard)
6-28-75 AMEND FIELD NAME: Formerly reported as
Undesignated
4-23-75 Drlg 610' RB
4-30-75 Drlg 4235' 1m
5-7-75 Drlg 6479' 1m
5-14-75 Coring @ 8213'
5-21-75 TD 3805'; MGSF
Cored (Drinkard) 8175-8220', rec 44', No desc
DST (Drinkard) 8048-8378', open 2 hrs 45 mins,
GTS 20 mins, rec 90' Mud + 200' O&GCM + 5350'
oil w/trace wtr, 1 hr 30 min ISIP 3085#, FP
GAG-2066#, 5 hr FSIP 2958#, HP 3851-3809#

6-4-5 NM

③

LEA Knowles, W. NM
C&K PETROLEUM, INC. 1 Shipp "34" Page 2
Sec 34, T-16-S, R-37-E

5-28-75 TD 8805'; PBD 8765'; Fshg Swab
Perf (Drinkard) 8148-66', 8178-8210', 8220-24',
8230-44', 8260-74' w/1 SPF
Acid (8148-8274') 500 gals

6-4-75 TD 8805'; PBD 8765'; WO OCC Pot
Flwd 88 BO in 24 hrs, 14/64" chk, CP 475#,
TP 200# (8148-8274')
Acid (8148-8274') 7000 gals
Flwd 531 BO in 24 hrs, 24/64" chk, GOR 477;
Grav 37.6, TP 210# (8148-8274')

6-23-75 TD 8805'; PBD 8765'; Complete
LOG TOPS: Yates 3140', San Andres 4830',
Glorieta 6243', Paddock 6338', Lower Clearfork
5066', Drinkard 8134', Abo 8334'

6-4-5 NM



6-28-75 COMPLETION ISSUED

1

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COUNTY	IEA	FIELD	Knowles, W.	STATE	NM
OPR	MESA PETROLEUM CO.			API	30-025-25083
NO	1	LEASE	Amerada State	SERIAL	9-1-2 NM
Sec 35, T-16-S, R-37-E				MAP	
810' FNL, 1980' FEL of Sec Unit B				CO-ORD	
3 mi N & 5 mi W/Knowles				ELEV	
SPD	8-2-75	CMP	8-26-75	WELL CLASS:	INT D FIN D
CSG	13 3/8" at 355' w/400 sx 8 5/8" at 4200' w/400 sx			FORMATION	DATUM
	TD 8640' (ABO)			PBD	

DRY & ABANDONED

CONTR Robinson Bros. OPR'S ELEV 3762' GL, 3775' KB PD 8850' RT

1

F.R. 8-4-75
(Drinkard)
8-4-75 Drlg 2025'
8-11-75 Drlg 5528' lm & dolo
8-18-75 Drlg 8112'
8-25-75 TD 8640'; Prep D&A
Cored (Drinkard) 8276-8320', rec 42', No descr
Cored (Drinkard) 8320-651', rec 45', No descr
DST (Drinkard) 8240-8365'; open 1 hr 30 mins, rec
30' DM, 1 hr 30 min ISIP 733#, FP 66-66#, 3 hr FSIP
1098#, HP 3926-3910#, BHT 172 deg
SP-DST (Paddock) 6540-6640', open 3 hrs 30 mins,
rec 1200' DF, 1 hr 30 min ISIP 2521#, FP 75-600#, 6
hr FSIP 2741#, HP 3169-3169#, BHT 166 deg

9-1-2 NM

1

IEA	Knowles, W.	NM
MESA PETROLEUM CO.	1 Amerada State	Page 2
	Sec 35, T16S, R37E	

9-2-75 TD 8640'; Dry & Abandoned
LOG TOPS: San Andres 4930', Paddock 6532', Tubb
8002', Drinkard 8156', Drinkard "B" 8230', Abo
Shale 8538'
9-6-75 COMPLETION ISSUED

9-1-2 NM

②

LEA COUNTY

NEW MEXICO

CASEY FIELD

Well: MESA PETROLEUM CO, 10 West Knowles

Result: D & A D

Loc'n: 8 mi SE/Lovington; 660' FNL, 660' FWL Sec 35-16S-37E

Unit D

Spud: 12-4-82; Comp: 1-14-83; Elev: 3772' Grd; TD: 11,675' Atoka

Casing: 13-3/8" 425'/550 sx; 8-5/8" 4925'/1625 sx

Comp Info: DST (Strawn) 11,377-425', op 1 hr 30 mins, rec

1945' WC, 30' mud, ISIP 1784#/1 hr 10 mins, FP 919-919#,

FSIP 2086#/3 hrs, HP 5141-5141#, BHT 160 deg; C/Dual #19

Tops EL: Rustler 2090', Yates 3210', Queen 4120', San Andres

4877', Glorieta 6319', Paddock 6392', Tubb 7856', Drinkard

7995', Abo 8540', Wolfc 10,906', Strawn 11,442', Atoka

11,623'

API No: 30-025-28052

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CORPORATION
A Subsidiary of A.C. Nielson Company

Date: 3-2-83

Card No.: 23 dh

③

LEA COUNTY

NEW MEXICO

KNOWLES, W/FLD

Well: MESA PETROLEUM CO, 9 West Knowles

Result: OIL DO

Loc'n: 8 mi SE/Lovington; 1980' FNL, 660' FWL Sec 35-16S-37E

Unit E

Spud: 8-21-81; Comp: 11-1-81; Elev: 3783' KB; TD: 8516' Drkd; PB: 8473'

Casing: 13-3/8" 404'/530sx; 8-5/8" 4949'/2275sx; 5 1/2" 8515'/680 sx

Prod Zone: (Drnk), T/Pay 8304', Prod thru Perfs 8304-72'

IPP: 36 BOPD + 14 BW, Grav 37.4, GOR 1805

Comp Info: ran MSMG logs; Crd (Drink) 8286-8345', rec 55' no

desc; Crd (Drink) 8345-8404', rec 57' no desc; Perf (Drink)

21/8304-72', A/15,000 gals foam acid; frac 21,000 gals &

13,000# sd, BHT 125 deg @ 8456'; Rig Rel 9-14-81; C/Moranco #7

Tops EL: San And 4887', Paddock 6479', Tubb 7991', Drink 8169'

API No: 30-025-27467

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CORPORATION
A Subsidiary of A.C. Nielson Company

Date: 12-3-81

Card No.: 10 dh

CONTR Robinson Bros. OPR'S ELEV 3769' GL, 3782' KB PD 8900' RT

9-1-3 NM

⑤

IEA	Knowles, W.	NM
MESA PETROLEUM CO.	6 West Knowles	Page 2
	Sec 35, T16S, R37E	

7-28-75 Continued
DST (Abo) 8585-8640', open 2 hrs, rec 190' MC
sulf wtr + 1123' sulf wtr, 1 hr 30 min ISIP 2980#,
FP 333-600#, 3 hr FSIP 2913#, HP 3976-3976#

8-4-75 TD 8640'; MICU

8-11-75 TD 8640'; PBD 8465'; Tstg
Perf (Drinkard) 8529-53' w/1 SPF
Swbd down (8529-53')
PB to 8465'
Perf (Drinkard) 8297-8308', 8312-32', 8336-74'
w/1 SPF
Acid (8297-8374') 3000 gals
Flwd 66 BO in 24 hrs thru 28/64" chk, TP 75-100#
(8297-8374')

8-18-75 TD 8640'; PBD 8465'; WO OCC Pot
9-1-3 NM

9-1-3 NM

(5)

8-18-75 Continued
Flwd 334 BO in 24 hrs thru 32/64" chk, GOR 721,
Grav 38.9, TP 50# (8297-8374')

9-2-75 TD 8640'; PBD 8465'; Complete
LOG TOPS: Anhydrite 2077', Yates 3255', San
Andres 4936', Glorieta 6400', Paddock 6508', Tubb
8018', Drinkard 8190', Abo 8572'

9-6-75 COMPLETION ISSUED