



PCS

**P.O. BOX 636
HOBBS, NEW MEXICO 88240
OFFICE (505) 392-1915**

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS

MICHAEL L. PIERCE
CERTIFIED PETROLEUM GEOLOGIST
CERTIFIED ENVIRONMENTAL INSPECTOR

Case 10717

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: DAVCRO INC.
Address: 2124 Broadway , Lubbock, Texas 79401
Contact party: Michael L. Pierce Phone: 505-392-1915
- 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: Michael L. Pierce Title: Agent
Signature: [Signature] Date: 3-16-93
- * 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.

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

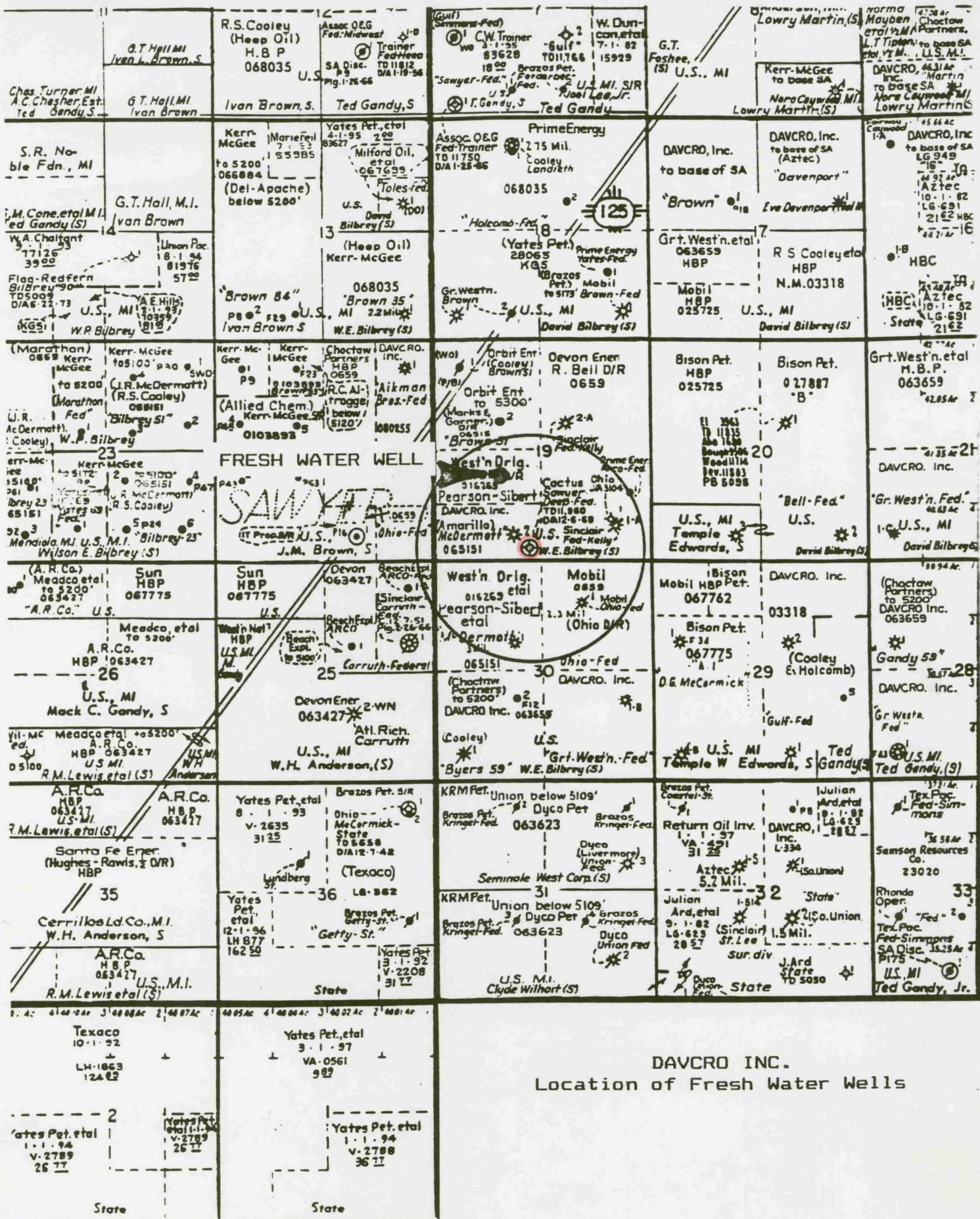
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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 cont.

Part III. A

- 1.) Sawyer Deep No. 1
330' FSL and 2310' FWL
Sec. 19 - T9S - R38E
Unit N
Lea County, New Mexico
- 2.) 17 1/2" hole size w/ 13 3/8" csg set at 391' w/ 375 sxs cmt. Cement circulated.
11" hole size w/ 8 5/8" csg set at 5120' w/ 400 sxs cmt.
TOC at 4160' (50% efficiency)
7 7/8" hole drilled to 11960'. No csg set.
- 3.) Propose to run approximately 5050' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a Tension Packer as a seal,
and load the casing annulus with inhibited fluid.

Part III. B

- 1.) The injection formation is the lower San Andres, and the well is located in the Sawyer San Andres Field.
- 2.) The injection interval will be open hole from 5120 to approximately 5600'. The open hole section includes the only the San Andres section.
- 3.) This well was originally drilled as an oil well by Cactus Drilling Corporation of Texas, and was D&A.
- 4.) This well was not perforated.
- 5.) There is no deeper oil production in the area. The San Andres is productive in offset wells in the P1 and P2 zones. The injection interval is the P3 and remainder of the San Andres, and is not productive in this area.

Part VII.

- 1.) Proposed average daily injection will be 500 bbls/ day.
Maximum will be 1000 bbls./ day.
- 2.) The system will be open.

- 3.) The average injection pressure will be 0(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the water will be from DAVCRO Inc. operated leases, and from San Andres production in the surrounding area.
- 5.) The San Andres is productive within one mile of the Sawyer Deep No. 1 well.

Part VIII

The injection interval is the Lower San Andres Formation, and is composed of Anhydrite and porous Dolomite. The top of the San Andres is at approximately 4195(-231), and the base at approximately 5605(-1641), with a thickness of 1400'. This entire area is overlain by the Quaternary Alluvium and Caliche. The Ogallala at 150' to 300' below surface is the major source of fresh water in the area. There are no fresh water zones below the San Andres.

Part IX

The disposal interval will be treated with a 5000 to 7500 gallon acid job.

Part X

The logs were previously submitted by Cactus Drilling Corporation of Texas.

Part XI

There is one active fresh water well within one mile of the Sawyer Deep No. 1 location. The chemical analysis for this well is attached.

Part XII

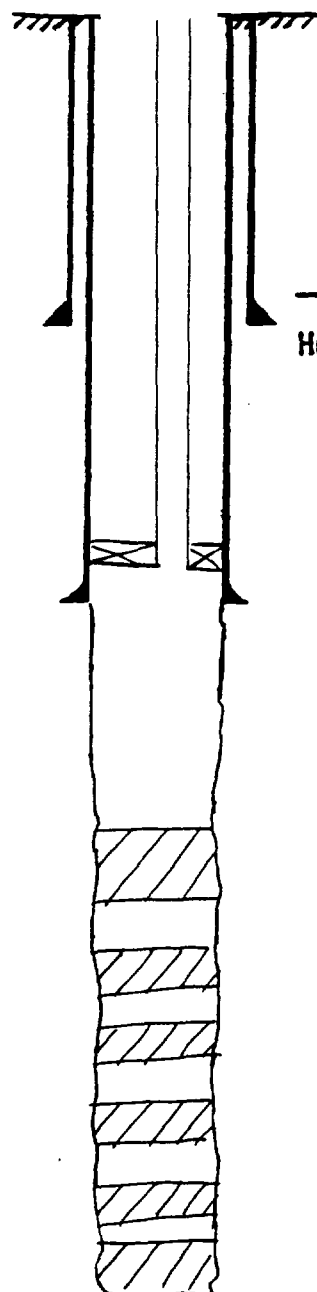
We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

Sec 19-T9S-R38E

OPERATOR DAVCO INC (Formerly Cactus Drilling Corporation of Texas)		DATE March 15, 1993
LEASE Sawyer Deep	WELL NO. 1	LOCATION Unit N sec 19-T9S-R38E

330' FSL & 2310' FWL

Proposed Configuration



13 3/8 " casing set at 391 ' with 375 sx of _____ cement

Hole size 17 1/2 " CIRCULATED

2 7/8 plastic lined tubing + packer
seat @ $\pm$ 5050'

8 5/8 " casing set at 5120 ' with 400 sx of _____ cement

Hole size 11 " TOL @ 4100' @ 50% efficiency

OH Injection Interval 5120 - 5600
(Lower SAN ANDRES)

25 sx plug @ 5600'

25 sx plug @ 7600'

25 sx plug @ 9500'

25 sx plug @ 11200'

25 sx plug @ 11500'

Total Depth 11960 ' Hole size 7 7/8 "

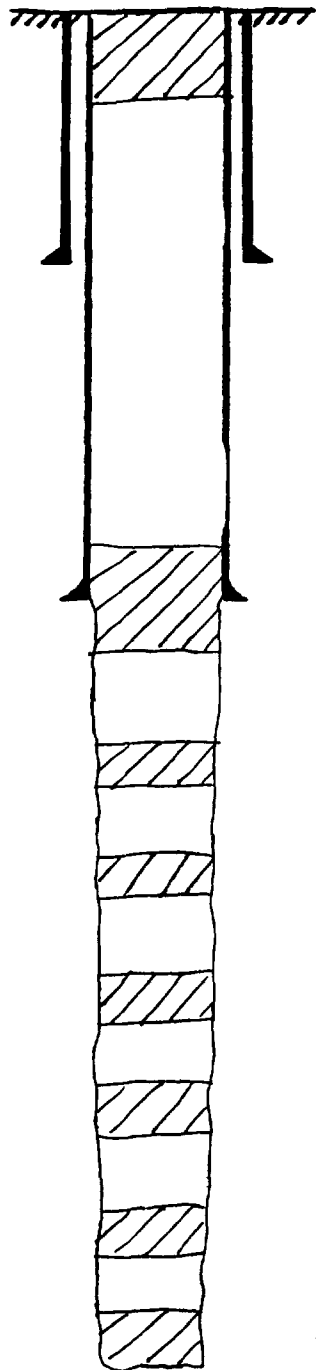
25 sx plug @ TD

SOC 19-T9S-238E

OPERATOR	Cactus Drilling Corporation of Texas		DATE	March 15, 1993
LEASE	Sawyer Deep	WELL No.	1	LOCATION Unit N SOC 19-T9S-38E

330' FSL + 2310' FWL

STATUS: D+A



25 SX plug @ surface

13 3/8" casing set at 391 ' with 375 sx of _____ cement
Hole size 17 1/2 " Circulated

8 5/8 " casing set at 5120 ' with 400 sx of _____ cement
Hole size 11 " TOC @ 4160' 50% efficiency

25 SX plug @ 5100' 50% in + out of 8 5/8" CSG

25 SX plug @ 5600'

25 SX plug @ 7600'

25 SX plug @ 9500'

25 SX plug @ 11200'

_____ " casing set at _____ ' with _____ sx of _____ cement

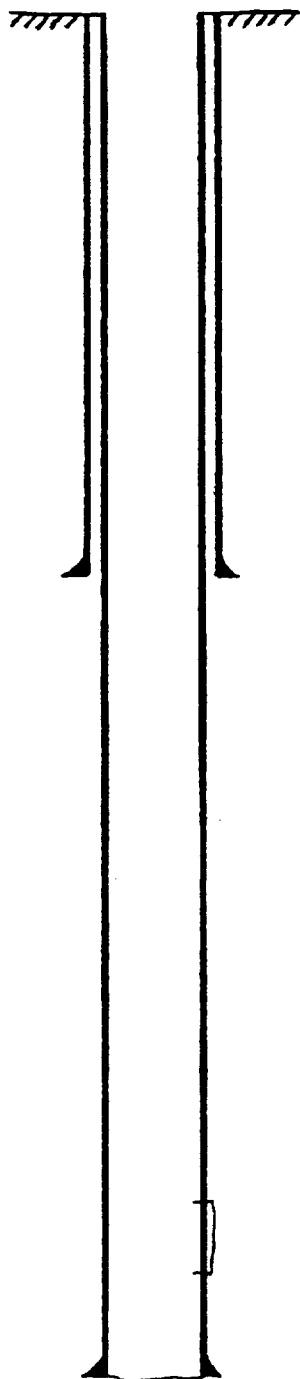
Total Depth 11960 ' Hole size 7 7/8 "

25 SX plug @ 11500

25 SX plug @ TD

OPERATOR		SEC 19-795-1238E	
PRIME OPERATING COMPANY		DATE	
LEASE		WELL No.	LOCATION
Arco 19 Federal		1	Unit I Sec 19-795-1238E

1650' FSL + 500' FEL
 STATUS: Active Producer
 Sawyer San Andres



8⁵/₈ " casing set at 417 ' with 250 sx of _____ cement

Hole size 11 " Circulated

Perforations: 4908 - 5001

4¹/₂ " casing set at 5060 ' with 225 sx of _____ cement

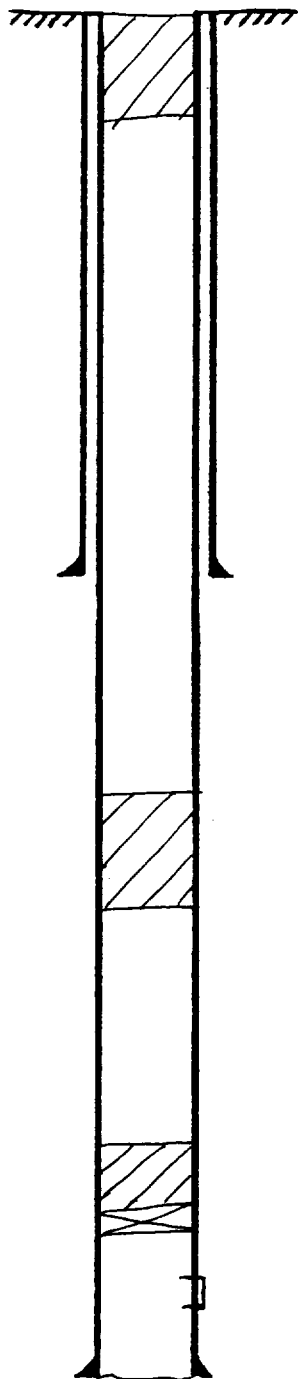
Total Depth 5065 ' Hole size 7⁷/₈ " TOC 4457'
 50% Efficiency

OPERATOR <i>Atlantic Richfield Company</i>		DATE <i>MARCH 15, 1993</i>	
LEASE <i>Kelly "A" Federal</i>	WELL NO. <i>1</i>	LOCATION <i>Unit A Sec 19-T9S-R38E</i>	

890' FSL MD 890' FEL

STATUS: P+A SANJER SM ANCHLES

8-27-70



9 5/8" casing set at 392' with 175 sx of _____ cement

Hole size 12 1/4" Circulated

20 sx plug @ 2220-2400

CIBP @ 4970' + 20 sx plug

perforations 4916-47, 4955-89

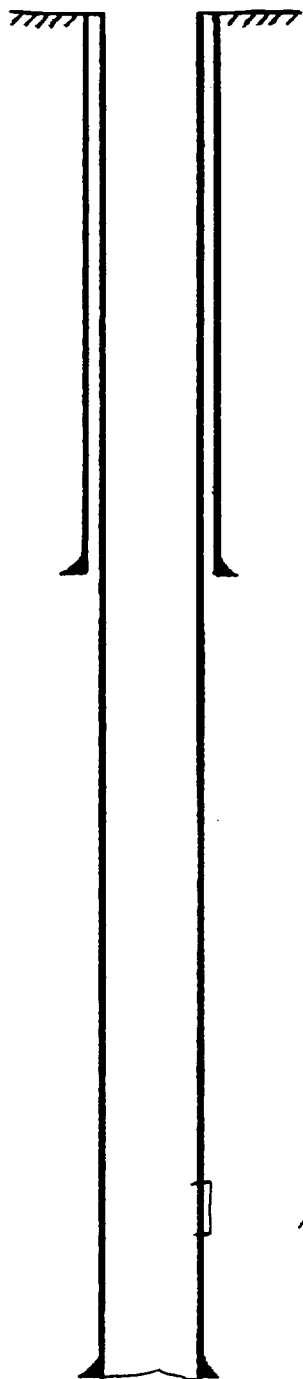
5 1/2" casing set at 5039' with 1600 sx of _____ cement

Total Depth 5040' Hole size 7 7/8" Circulated

OPERATOR DAUCRO Inc.		DATE MARCH 15, 1993	
LEASE McDermott Federal	WELL No. 2	LOCATION UNIT N Sec 19-T9S-R38E	

1980' FWL + 660' FSL

STATUS: ACTIVE PRODUCER
SANYER SAN ANDRES



8 5/8 " casing set at 401 ' with 300 sx of _____ cement
Hole size 12 1/4 " CIRCULATED

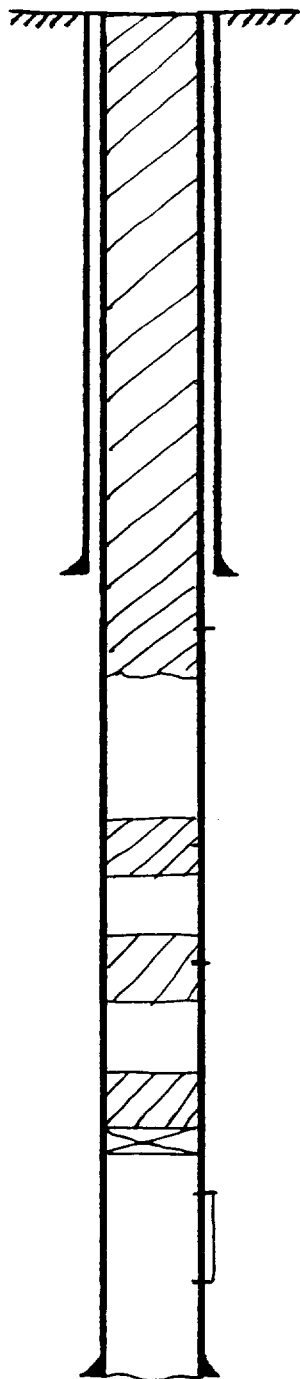
perforations: 4940-58
4970-96

4 1/2 " casing set at 5008 ' with 400 sx of _____ cement
Total Depth 5008 ' Hole size 7 7/8 " TOC 3937
50% Efficiency

SEC 30-T9S-R38E

OPERATOR <i>Mobil PRODUCING TX AND NM Inc</i>	DATE <i>MARCH 15-1993</i>	
LEASE <i>OHIO FEDERAL</i>	WELL No. <i>1</i>	LOCATION <i>Unit B SEC 30-T9S-R38E</i>

990' FNL and 1650' FEL
 STATUS: P+A Sawyer SAN ANTONIO
 1-4-85



8⁵/₈ " casing set at 361 ' with 175 sx of _____ cement
 Hole size 12¹/₄ " (ASSUME 12¹/₄") CIRCULATED

perf 410' circ hole, sgz w/ 105 SXS cmt, cmt circulated
 to surface

Tagged @ 2238'. spot 15 SXS @ 2180' Tagged @ 2076'
 perf 2200' + sgz w/ 25 SXS 50% in + out of 4¹/₂" CSG

Perf 2500' sgz w/ 25 SXS 50% in + out of 4¹/₂" CSG.
 Tagged @ 2380'

SET C/P + 5 SXS cmt @ 4850 - 4790

perforations 4897-99, 4902-13, 4922-29, 4938-46
 4968-72'

4¹/₂ " casing set at 5044 ' with 240 sx of _____ cement
 Total Depth 5044 ' Hole size 7⁷/₈ " (ASSUME 7⁷/₈") TOC @ 4401
 50% efficiency

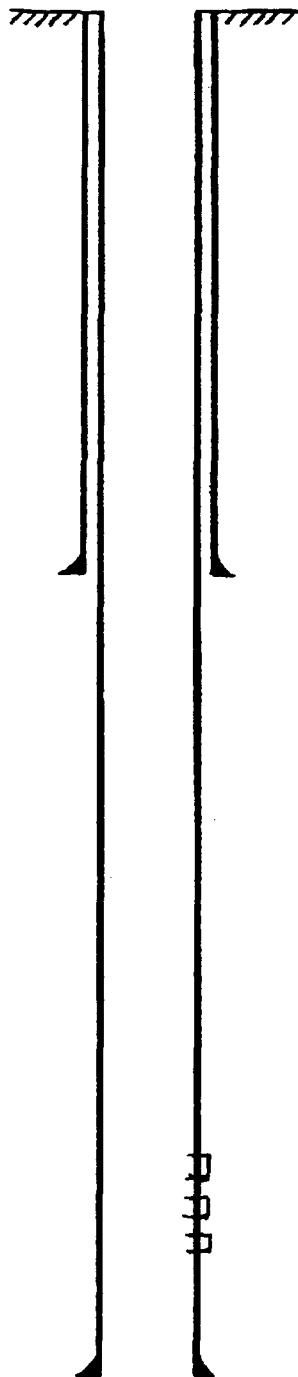
OPERATOR DAVCO Inc		DATE MARCH 15, 1993	
LEASE McDERMOTT Federal	WELL No. 1	LOCATION Unit F 1980' FNL + 1980' FWL	

Sec 30-79S-1238E

SEC 30-79S-1238E

STATUS: Active Producer

Sawyer San Andres



8 5/8 " casing set at 380 ' with 350 sx of _____ cement

Hole size 12 1/4 " CIRCULATED

perforations 4931-36
4952-78
4986-96

4 1/2 " casing set at 5010 ' with 400 sx of _____ cement

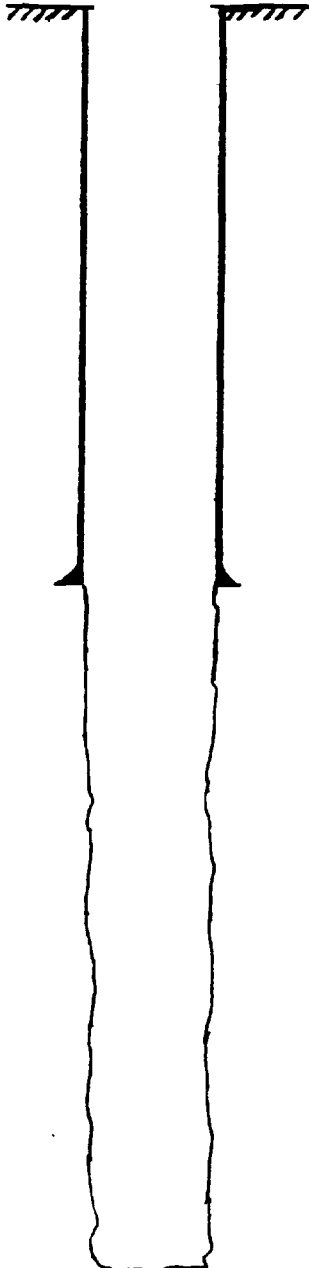
Total Depth 5010 ' Hole size 7 7/8 " TOC @ 3939
50% Efficiency

Sec 19-T9S-R38E

OPERATOR THE OHIO OIL COMPANY		DATE MARCH 15, 1993	
LEASE Federal Kelly A	WELL NO. 1	LOCATION Unit P Sec 19-T9S-R38E	

990' FSL & 990 FEL

STATUS: D+A



9 5/8 " casing set at 366' with ? sx of _____ cement
 Hole size _____" No mention in file of number of
 SXS cmt but the plan was to Circulate.

Lost hole @ 3104. Plug + ABANDON
 No plugging detail on file
 Total Depth 3104' Hole size 7 1/2"

HALLIBURTON SERVICES

HOBBS, NEW MEXICO

To DAVESample Number 104

*Milligrams per liter

Submitted by _____ Date Received 3-18-93Well No. McDERMOTT #2 * Depth _____ Formation _____County _____ Field _____ Source Active Windmill*
NORTH WEST of WELL

Resistivity.....

Specific Gr.....

pH.....

Calcium*.....

Ca

Magnesium*.....

Mg

Chlorides*..... 105 mcl

Cl

Sulfates*.....

SO₄

Bicarbonates*....

HCO₃

Soluble Iron*....

Fe

J. LEUBANK



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

W.E. Bilbrey	
Rt 1	
P.O. State and ZIP Code CROSSROADS, NM 88114	
Postage	\$.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date MAR 1993	

PS Form 3800, June 1991



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Beach Exploration Inc	
800 N. Macienfeld STE 200	
P.O. State and ZIP Code Midland, TX 79701	
Postage	\$.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	

PS Form 3800, June 1991



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

BLM	
P.O. State and ZIP Code POB 1778 CARLSBAD, NM 88221	
Postage	\$.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 1.98
Postmark or Date	

PS Form 3800, June 1991

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Orbit Enterprises Inc	
Street and No.	
P.O. State and ZIP Code POB 755 Hobbs, NM 88241-0155	
Postage	\$.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.98
Postmark or Date MAR 1993	

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

P 365 081 549
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to PRIME OPERATING INC	
Street and No. 731 W. WADLEY Bldg L-220	
P.O., State and ZIP Code Midland, TX 79705	
Postage	\$ 98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 198
Postmark or Date	

P 365 084 948
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to Mobil Producing Tx + NM Inc	
Street and No. NINE GREENWAY PLAZA STE 2700	
P.O., State and ZIP Code Houston TX 77046	
Postage	\$ 98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 198
Postmark or Date	

P 365 084 547
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to IT Properties	
Street and No. 3502 YACHTING CT	
P.O., State and ZIP Code Arlington, TX 76106	
Postage	\$ 98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 198
Postmark or Date	



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

3-19-93

'93 MAR 24 AM 10 58

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

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

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD ☒ _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Danvers Inc Sawyer Deep #1-N 19-9-38
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows: (form Cactus Bldg. Corp. of TX. Sawyer Deep #1)

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See notes on
instructions on
reverse side)

Form approved
Budget Bureau No. 42 BMA-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ (Other <u>TEMP. MEASUREMENT</u>)		5. TRADE DESIGNATION AND SERIAL NO. LC 045151																			
2. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ REKEY ☐ PLUG BACK ☐ DIFF. SERVICE ☐ (Other _____)		6. IF INDIAN, ALIQUOT OR TRIBE NAME																			
3. NAME OF OPERATOR Cactus Drilling Corporation		7. UNIT AGREEMENT NAME																			
4. ADDRESS OF OPERATOR P.O. Box 32, Midland, Texas		8. FARM OR TRACT NAME Sourer Deep																			
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 2310' From West Line and 330' From South Line At top prod. interval reported below Same At total depth Same		9. WELL NO. 1																			
10. PERMIT NO. _____ DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT Wildcat																			
11. DATE SPUDDED 2-28-65 12. DATE T.D. REACHED 3-13-65 13. DATE COMPL. (Ready to prod) _____		11. SEC. T. R. N. OF BLOCK AND QUARTER Sec. 19, Township 9 S, Range 38 E, N.M.P.M.																			
14. ELEVATION (OF, BAS. ST. CR. ETC.) 3934 GR 3964 KB		12. COUNTY OR PARISH Lee																			
15. TOTAL DEPTH, MD & TVD 11,960 16. PLUG BACK T.D., MD & TVD 5100 17. IF MULTIPLE COMPL. HOW MANY? _____		13. ELEV. CASINGHEAD _____																			
18. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* _____		14. ROTARY TOOLS 200-TD 15. CABLE TOOLS 0-200																			
19. TYPE ELECTRIC AND OTHER LOGS RUN Gamma - Ray - Acoustic and Lateralog		16. WAS DIRECTIONAL SURVEY MADE No																			
20. CARING RECORD (Report all strings set in well)		17. WAS WELL CORRED No																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>CARING SIZE</th> <th>WEIGHT, LB./FT.</th> <th>DEPTH SET (MD)</th> <th>HAIR SIZE</th> <th>CEMENTING RECORD</th> <th>AMOUNT FILLED</th> </tr> <tr> <td>13 3/8</td> <td>35.60</td> <td>391</td> <td>17 1/2"</td> <td>375 sacks</td> <td></td> </tr> <tr> <td>8 3/8</td> <td>34 & 32 #</td> <td>5120</td> <td>12"</td> <td>400 sacks</td> <td></td> </tr> </table>		CARING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HAIR SIZE	CEMENTING RECORD	AMOUNT FILLED	13 3/8	35.60	391	17 1/2"	375 sacks		8 3/8	34 & 32 #	5120	12"	400 sacks			
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21. LINER RECORD		22. TUBING RECORD																			
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SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)																	
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23. PREPARATION RECORD (Interval, size and number)		24. ACID, SHOT FRACTURE, CEMENT SQUEEZE, ETC.																			
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DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED																				
25. PRODUCTION																					
DATE FIRST PRODUCTION _____		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____																			
DATE OF TEST _____		WELL STATUS (Producing or shut-in) T.H.																			
HOURE TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL. _____ GAS—MCF. _____ WATER—BBL. _____ GAS-OIL RATIO _____																		
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. _____ GAS—MCF. _____ WATER—BBL. _____ OIL GRAVITY-API (COSS.) _____																		
26. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____		TEST WITNESSED BY _____																			
27. LIST OF ATTACHMENTS																					
28. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																					
SIGNED <u>David L. Thomas</u>		TITLE <u>Lead Manager</u> DATE <u>6-21-65</u>																			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

1. This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be learned by, or may be obtained from, the local Federal or State office. See instructions on items 22 and 24, and 25, below regarding separate reports for separate completions.

2. Prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be based on this form, see item 23.

3. If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. (Consult local State geologist office for specific instructions.)

4. Indicate which operation is used as reference (where not otherwise shown) for depth measurements given in other sections on this form and in any attachments, items 22 and 24. If this well is completed for separate production from more than one interval, give multiple completions, as stated in item 22, and in item 23 show the producing interval, or intervals, (top(s), bottom(s) and name(s) (if any) for only the interval reported in item 22. Submit a separate report (page) on this form, adequately identifying each additional interval to be separately produced, showing the additional data pertinent to such interval.

5. "Geologic Column": Attached supplemental reports for this well should show the details of any multiple stage cementing and the location of the cementing tool.

6. Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 23 above.)

MAP OF POKOT'S ZONES

SHOW ALL IMPORTANT POINTS OF INTEREST AND COASTLINE THROUGH CORNER INTERVALS, AND ALL DIRECTIONAL DATA, INCLUDING:

DEPTH INTERVAL, STRIKE, DIRECTION, TIME, TIDE, OPEN, CLOSING, AND SURFACE PRESSURE, AND RECORDABLE

(3) LAND MARKS
From Top to Bottom

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAN DEPTH	TRUEST DEPTH
Atcoka	11,136	11,515	DST # 1 227-315, op 3 hrs, all blow air 12 mins, loc. to medium blow throughout test, no GTS, rec 1570' WC, 290' GCM & 180 GCM, ISIP 4107 # 1 hr, FP 604-697#, PSIP 3387# 1 hr.	Yates Queen San Andres Glorieta Gladys Fork Tubb Abo Wolfcamp Bough "C" Atcoka Mississippi Devonian	2937 3630 4190 5610 6270 6937 7685 9038 9530 11,136 11,515 11,904	Same " " " " " " " " " " "
Devonian	11,904	T.D.	DST # 2 905-927, op 30 mins, bypassed tool, re-opened 45 mins, rec 123' drlg fluid, ISIP 4573# 1 hr, FP 178-178#, PSIP 4484# 1 hr.			
Devonian			DST # 3 908-960, op 1 1/2 hrs, rec 2000' WC, 7900' SW with sulf odor, & 90' mud, ISIP 4528# 1 hr, FP 1778-4528#, PSIP 4528# 1 hr.			

UNITED STATES
DEPARTMENT OF THE INTERIOR

MINERAL RIGHTS

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Temporarily Abandoned	2. UNIT AGREEMENT NAME
3. NAME OF OPERATOR Cactus Drilling Corporation	4. FARM OR TRACT NAME Sawyer Deep
5. ADDRESS OF OPERATOR Box 32, Midland, Texas	6. WELL NO. 1
7. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) 2310 From West Line and 330 From South Line.	8. FIELD AND ZONE, OR WILDCAT Wildcat
9. ELEVATION (Show whether DE, RT, OR, OR, OR)	10. SECTION, TOWNSHIP AND RANGE Sec. 19, Township 9 S, Range 33 E, N.M.P.M.
11. LEASE NO. 3914 GR 3964 KB	12. COUNTY OR PARISH Lea
	13. STATE N. Mexico

14. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
☐ TEST WATER SHUT OFF	☐ CUL OR AFTER CASING	☐ WATER SHUT OFF	☐ REPAIRING WELL
☐ FRACTURE TREAT	☐ MULTIPLE COMPLETION	☐ FRACTURE TREATMENT	☐ ALTERING CASING
☐ SHOOT OR PLUG	☐ SHUTDOWN	☐ SHOOTING OR PLUGGING	☐ RECOMPLETION
☐ REPAIR WELL	☐ CHANGE PLANS	☐ OTHER: Temporarily abandoned.	

(Other)

15. (In section proposed or completed operations clearly state all pertinent details and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Under authority of the Hobbs office of the U.S. G. S. this well was temporarily abandoned in the following manner:

25 Sacks cement at T.D.
 25 " " 11,500'
 25 " " 11,200'
 25 " " 9,500'
 25 " " 7,000'
 25 " " 5,600'
 25 " " 5,100' in and out of 8 5/8" casing.
 Plug placed in top of 8 5/8" casing.

16. I hereby certify that the foregoing is true and correct

SIGNED **[Signature]** TITLE **Land Manager**

DATE **6-21-65**

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED

*See Instructions on Reverse Side

ACTING DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

2. TYPE OF WELL

OIL

WELL ☒

GAS

WELL ☐

OTHER

SINGLE

ZONE ☐

MULTIPLE

ZONE ☐

3. NAME OF OPERATOR

Cactus Drilling Corporation of Texas

4. ADDRESS OF OPERATOR

Box 33, Midland, Texas

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

At surface

2310' from West Line and 330' from south line

At proposed prod. zone

Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Fourteen miles east of Crossroads, New Mexico

7. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest dril. unit line, if any)

330'

8. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

467'

9. NO. OF ACRES IN LEASE

240

10. PROPOSED DEPTH

12,000'

11. NO. OF ACRES ASSIGNED

TO THIS WELL

80

12. RENTAL OF CASE TOWER

Rotary

13. APPROX. DATE WORK WILL START*

Feb. 15, 1965

14. 3954 CR

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY CEMENT
17 1/2"	13 3/8"	48#	375'	375 sacks
11 1/2"	8 5/8"	24# & 32#	5120'	400 sacks
7 7/8"	4 1/2"	11.6# & 13.5#	12,000'	800 sacks

Blowout Preventers:

To 5120' will use 12" 900 series Double Hydraulic Blowout Preventers

From 5120' to T.D. will use 10" 900 Series Double Hydraulic Blowout Preventers

ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present production zone and proposed new production zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Donald G. Stevens

TITLE

Landman

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

TITLE

February 11, 1965

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

FORM C-12B
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

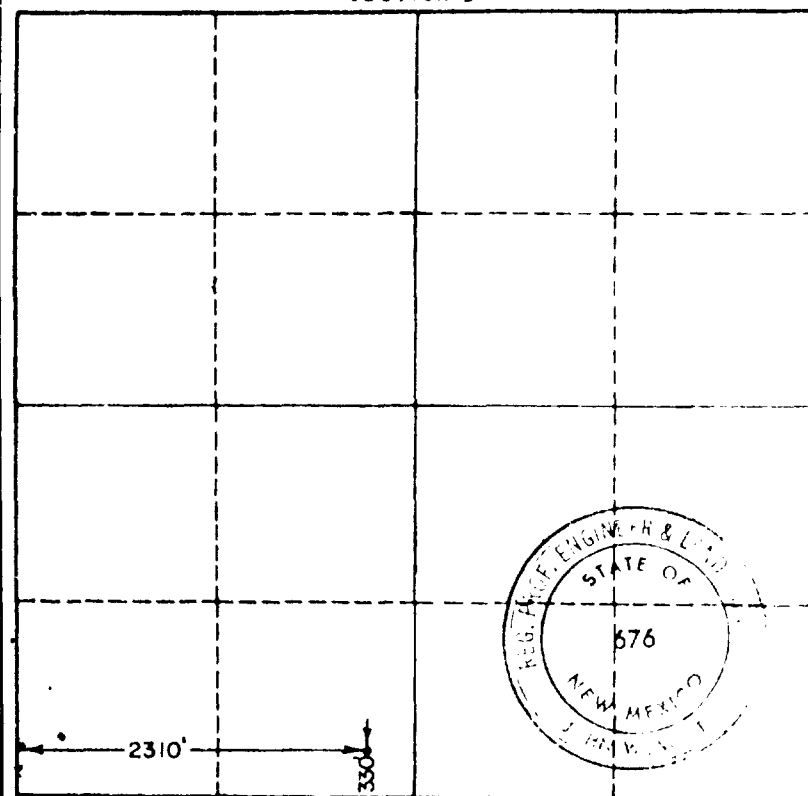
SECTION A

Operator CACTUS DRILLING CORP. OF TEXAS				Lease SAWYER DEEP		Well No. 1
Unit Letter N	Section 19	Township 9 SOUTH	Range 38 EAST	County LEA		
Actual Wellbore Location of Well: 330 feet from the SOUTH line and 2310 feet from the WEST line						
Ground Level Elev. 3954	Producing Formation Devonian		Pool Wildcat	Dedicated Acreage 80 Acres		

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-5-29 (c) NMSA 1955 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☒ If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below

Owner	Land Description

SECTION B



CERTIFICATION

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

Name Donald G. Stewart
Position Landman
Company Cactus Drilling Corp.
Date Feb. 11, 1965

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

Date Surveyed 2-3-65
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST
John W. West
Certificate No. N. M. - P. E. & L. S. NO. 676

COUNTY LEA FIELD Wildcat

STATE N.M.

OPN CACTUS DRILG. CORP. OF TEXAS

MAP

1 Sawyer Deep Federal

CORD

Sec. 19, T-9-S, R-18-E

330' fr S Line & 2310' fr W Line of Sec.

Spud 2-27-65

Comp 5-15-65

CSG & SK. TUBING

13 3/8" 396' 375
8 5/8" 5120' 500

FORMATION	CLASS	FORMATION	DATUM
SPL:			
Abo	7610		
W.C.	9070		
Morrow			
	11235		
Miss	11500		
Dev	11900		
TD	11960		

LOGS EL GR RA IND HC A

PLUGGED & ABANDONED

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CONT Company Tools
DATE

PROP DEPTH 12,000' TYPE

F. R. 2-25-65; Oper's Elev. 3960' DF.

PD 12,000' - Devonian.

Contractor - Co. Tools

3-1-65 Drlg. 35'
3-8-65 Drlg. 224'
3-15-65 Drlg. 2200' anhy.
3-22-65 Drlg. 4816'
3-29-65 Drlg. 6590' dolo.
4-5-65 Drlg. 8168'
4-12-65 Drlg. 9228'
4-19-65 Drlg. 10,170' lm. & sh.
4-26-65 Drlg. 10,980' lm.
5-3-65 Drlg. 11,382' sh.
DST 11,227-315', open 3 hrs.,
Rec. 1570' WB + 290' GCM + 180' GC Salt Wtr.,
1 hr. FSIP 4107#, FP 604-697#,
1 hr. FSIP 3387#,
5-10-65 Drlg. 11,857'.

LEA Wilcat NM Sect. 14-WS-38E
CACTUS DRILLING CORP. OF TEXAS, #1 Sawyer Deep Federal
Page #2

17-65

TD 11960', PLUGGED & ABANDONED.

DST 11905-927', open 1 hr 15 mins,
rec 123' drlg fluid

1 hr ISIP 4575#, FP 178-178#.

1 hr FSIP 4484#.

DST 11908-960', open 1 hr 30 mins,

rec 2000' Wb. 7900' salt wtr w/sul odor,
+ 90' mud,

1 hr ISIP 4528#, FP 1778-4528#.

1 hr FSIP 4528#.

LOG TOPS: Anhydrite 2282', Yates 2912',

San Andres 4187', Glorieta 5604', Tubb 6936',

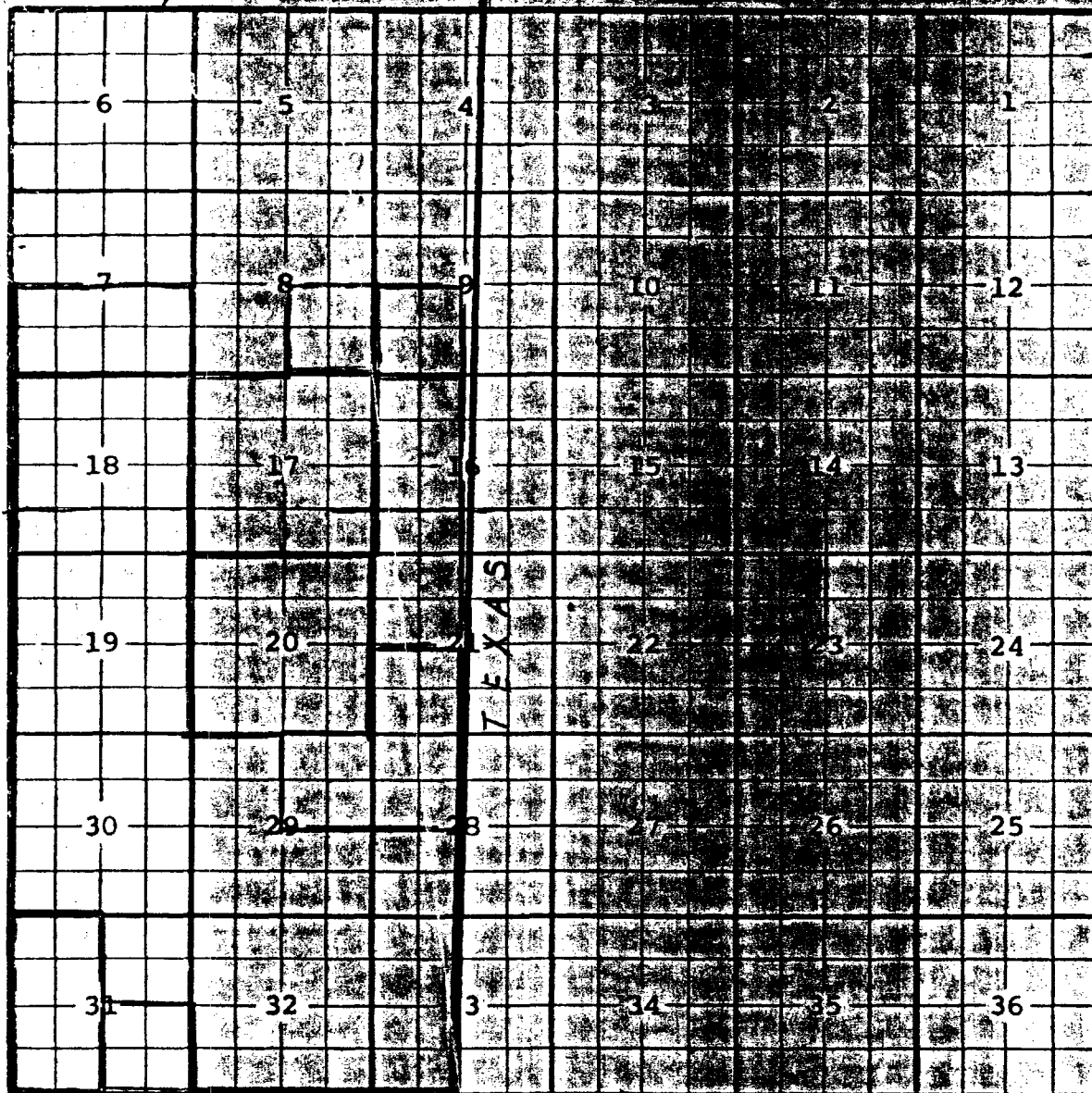
Abo 7663', Wolfcamp 8960', Bough "C" 9532',

Atoka 11120', Mississippian Lime 11517',

Woodford 11816', Devonian 11906'.

COUNTY LeaTOWNSHIP 9 South

RANGE

36 East

Description (Reclassified): All Sec. 18 & 19; $\frac{S}{2}$ Sec. 28; $\frac{W}{2}$ & $\frac{SE}{4}$ Sec. 29;
 All Sec. 30; $\frac{NE}{4}$ Sec. 31; All Sec. 32 & 33 (R-1511, 10-30-59)
 - $\frac{SE}{4}$ Sec. 31 (R-2485, 6-1-63) - All Sec. 20 (R-2879, 4-1-65) - $\frac{SW}{4}$ Sec. 21;
 $\frac{NW}{4}$ Sec. 28; $\frac{NE}{4}$ Sec. 29 (R-3014, 1-1-66) Ext: $\frac{W}{2}$ Sec. 16, $\frac{NW}{4}$ Sec. 21 (R-4915, 12-1-74)
 Ext: Lots 344 and 345 $\frac{SW}{4}$ Sec. 9 (R-4995, 5-1-75)
 Ext: $\frac{SE}{4}$ Sec. 8 (R-5063, 7-1-75) Ext: All Sec. 17 (R-5056, 8-1-75)
 Ext. $\frac{S}{2}$ sec 7 (R-6810, 10-23-81) Ext $\frac{W}{2}$ sec 3 (R-6758, 8-26-81)
 Reclassify as associated pool (R-5350, 1-17-77)