



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

7-9-91

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

7027 6/9

RE: Proposed:

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

Gentlemen:

I have examined the application for the:

<i>Circle Ridge Prod. Inc.</i>	<i>Dickey Queen Sand Unit</i>	<i>Tr. 24 #1-A</i>
Operator	Lease & Well No.	Unit S-T-R
		<i>16-14-31</i>

and my recommendations are as follows:

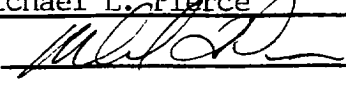
OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: CIRCLE RIDGE PRODUCTION INC.
Address: c/o Peak Consulting Services P.O. BOX 636 Hobbs, New Mexico 88240
Contact party: M.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 Consultant
Signature:  Date: 7/8/91
- * 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

APPLICATION FOR AUTHORIZATION TO INJECT
CIRCLE RIDGE PRODUCTION INC.

Part III. A

1. DRICKEY QUEEN SAND UNIT TRACT 24 NO. 1
SEC. 16 T14S R31E UNIT LETTER A
660 FNL AND 660 FEL
2. 12 1/4" CSG SET AT 120' WITH 125 SXS CMT CIRC
7" CSG SET AT 2860' WITH 125 SXS TOC 1980' USING
100% EFFICIENCY. AND 2420' WITH 50% EFFICIENCY.
3. Plan to run 2 7/8" plastic lined tubing set at approx.
2800'.
4. Plan to run a Haliburton Tension Packer and set approx.
2750'.

Part III. B

1. The injection interval is the Queen Sand, Caprock
Queen Field.
2. The injection interval is open hole 2860 - 2881'.
3. This well was originally drilled as an oil well.
4. None
5. None

Part V. Attached

Part VI. Attached

Part VII.

1. The average rate of injection will be approx. 350
barrels per day, with a maximum of 500 barrels per
day.
2. The system will be closed.

Part VII. cont.

3. The average pressure will be 400 - 500 PSI, with a maximum of 600 PSI..
4. The source of the water will be produced water.
5. N/A

Part VIII. Previously submitted

Part IX. Plan to stimulate with 500 gallons 15% HCL acid.

Part X. Logs were previously submitted.

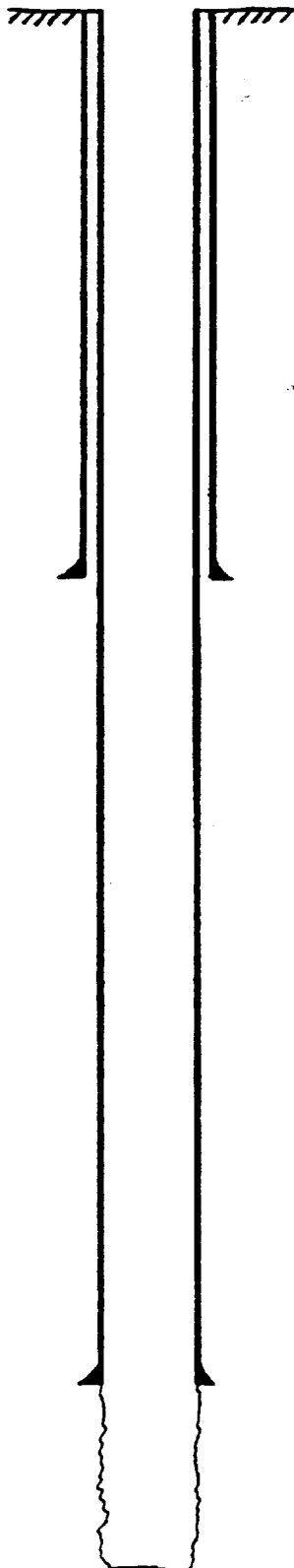
Part XI. This well is located west of the cap, and there are no fresh water wells in the vicinity.

Part XII. I have examined all geologic and engineering data available to me and find no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

OPERATOR <i>Circle Ridge Production Inc</i>	DATE <i>7-3-91</i>	
LEASE <i>Dickey Queen SMO Unit T2 24</i>	WELL No. <i>1</i>	LOCATION <i>Unit A 660'FNL & 660'FEL</i>

*SEC 16-7145-R31E
Chaves County New Mexico*

*STATUS: PRODUCER
Current Disposition*



*12 3/4" casing set at 120' with 125' sx of _____ cement
Hole size 16" Circulated*

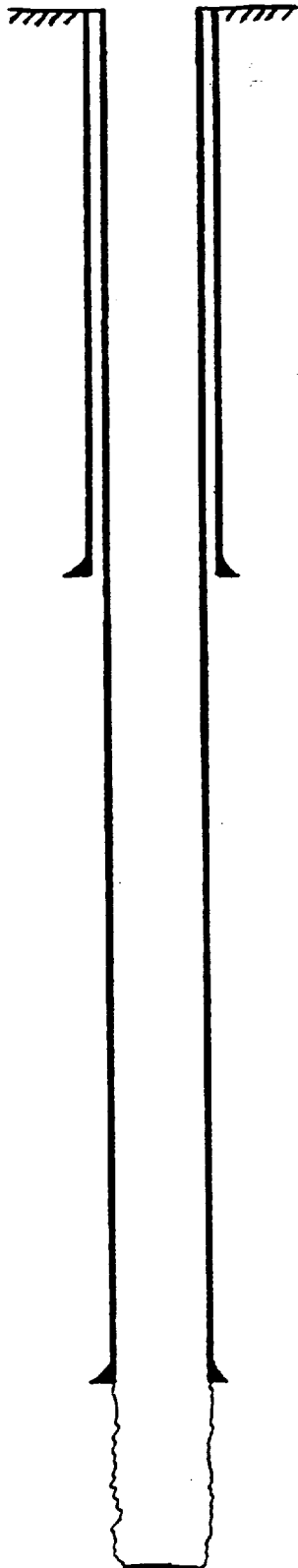
*7" casing set at 2860' with 125' sx of _____ cemen
Total Depth 2881' Hole size 9" TOC 2420
50% efficiency*

OH Completion 2860-2881

OPERATOR CIRCE Ridge Production Inc.		DATE 7-3-91
LEASE Deickey Queen SMO Unit Tr 48	WELL No. 1	LOCATION UNIT D 660' FNL + 660' FNL

SEC 15-7145-1231E
CHAVES County New Mexico

Status: WIW



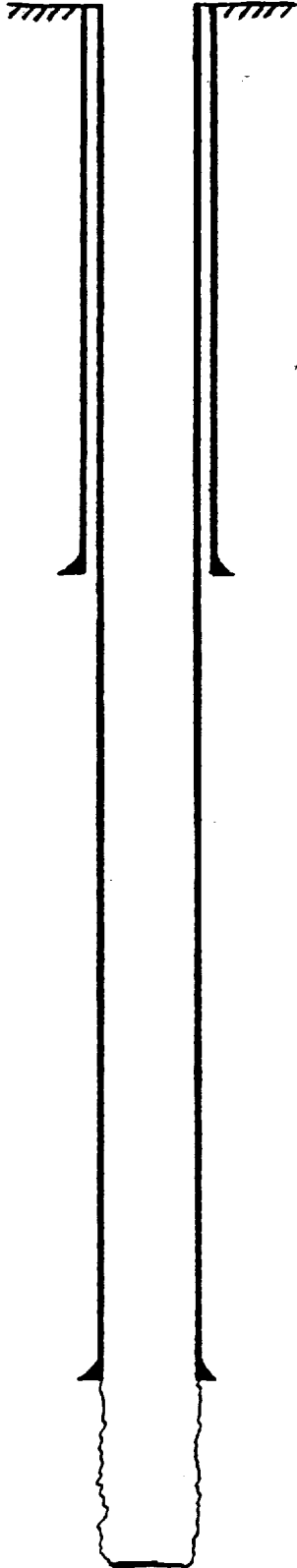
NO SURFACE CASING RUN WAS ALL PULLED WHEN 5 1/2" WAS RUN.
 _____" casing set at _____' with _____ sx of _____ cement
 Hole size _____"

5 1/2" casing set at 2868' with 100 sx of _____ cement
 Total Depth 4139' Hole size 7 3/8" TOC 2516'
 PB TO 2900' 50% efficiency
 OH Completion 2868-2900'

OPERATOR <u>C. E. LARUE and B. N. MURRY JR</u>		DATE <u>7-3-91</u>
LEASE <u>Trigg Federal</u>	WELL No. <u>2</u>	LOCATION <u>UNIT P 600' FSL * 660' FEL</u>

Sec 9-7145-1231E
CHAVES County New Mexico

Status: WIW



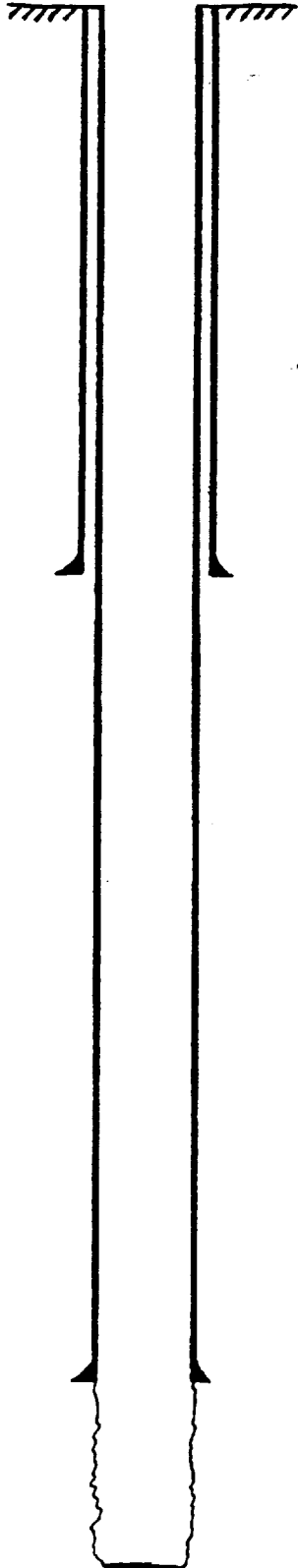
13 7/8 " casing set at 120 ' with 50 sx of _____ cement
Hole size 16 " Circulated

5 1/2 " casing set at 2788 ' with 100 sx of _____ cement
Total Depth 2810 ' Hole size 7 7/8 " TOC 2436'
OH Completion 2788-2810 50% efficiency

OPERATOR C.E. Lalue and B.N. Muncy Jr		DATE 7-3-91
LEASE Trigg Federal	WELL No. 9	LOCATION Unit D 660' FSL & 1980' FEL

SEC 9- T145- R31E
Chaves County New Mexico

Status: producer



13 3/8 " casing set at 90 ' with 50 sx of _____ cement

Hole size 16 " Circulated

5 1/2 " casing set at 2786 ' with 100 sx of _____ cement

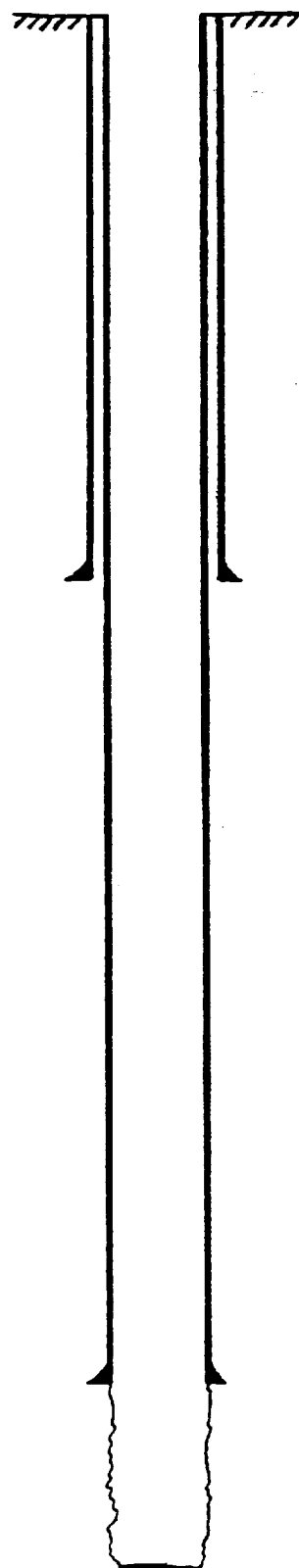
Total Depth 2805 ' Hole size 7 7/8 " TOC 2434'

OH Completion 2786-2805 50% efficiency

OPERATOR	Circle Ridge Production Co	DATE	7-3-91
LEASE	Deickey Evers SAND Unit Tr. 10	WELL No.	1
		LOCATION	UNIT # 660' FSL & 660' FWL

SRC 10-7145-1231E
 CHAVES County New Mexico

Status: producer



NO Fresh Water zones Below Cap.

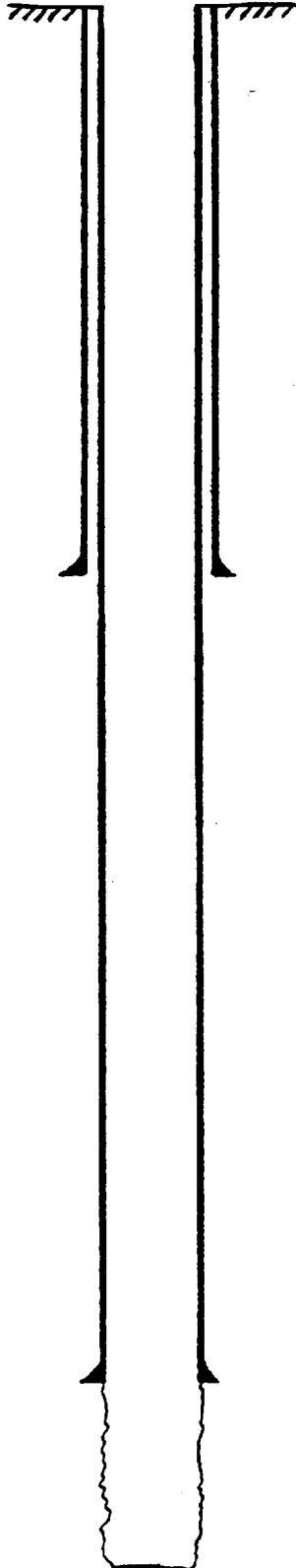
NO SURFACE RUN (All was pulled when 5 1/2 was run)
 _____" casing set at _____' with _____ sx of _____ cement
 Hole size _____"

5 1/2" casing set at 2824' with 125 sx of _____ cement.
 Total Depth 2831' Hole size 7 7/8" TOC 2384
 OH 2824-2831 50% efficiency

OPERATOR <i>Circle Ridge Production Inc.</i>	DATE <i>7-3-91</i>	
LEASE <i>Dickey Over SAMO Unit Tr 1</i>	WELL No. <i>1</i>	LOCATION <i>Unit E 1980' FNL r 640' WC</i>

*Sec 15 - T14S - R31E
Chaves County New Mexico*

Status: producer



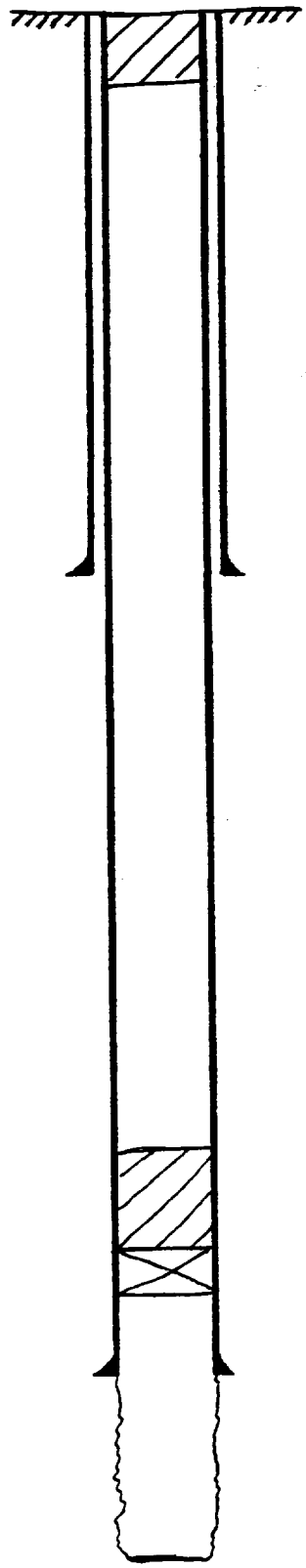
All 8 5/8" CSG pulled when 7" was set
 _____ " casing set at _____ ' with _____ sx of _____ cement
 Hole size _____ "

7" casing set at 2939' with 150 sx of _____ cement
 Total Depth 2956' Hole size 9" TOC 2414'
 OH Completion 2939-2956 50% efficiency

OPERATOR Cities Service Oil Co	DATE 7-3-91
LEASE Deickey Queen SAND Unit Tr. 49	WELL No. 1
LOCATION UNIT C 660' FNL & 1980' FNL	

SEC 15-7145-R31E
CHARLES COUNTY NEW MEXICO

STATUS: D & A
11-12-70



10 SX @ SURFACE

8 5/8 " casing set at 1205 ' with NO sx of _____ cement
Hole size 11 " All 8 5/8 pulled when 7" WAS RUN

NO 7" CSG pulled

CIBP @ 2700' + 25 SX CMT (2700'-2575')

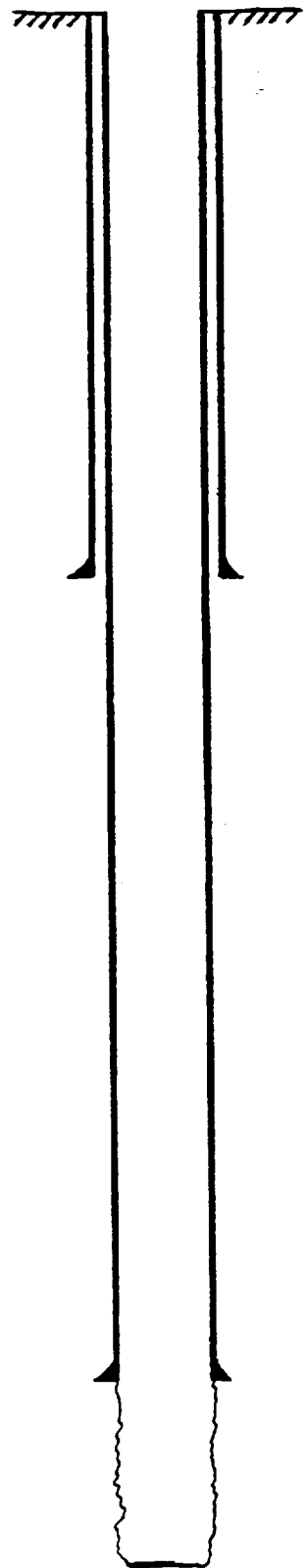
7 " casing set at 2857 ' with 125 sx of _____ cement
Total Depth 2870 ' Hole size 9 " " TOC

OH Completion 2857-2870

OPERATOR <i>Circle Ridge Production Inc.</i>		DATE <i>7-3-91</i>
LEASE <i>Deickey Queen Sand Unit Tr. 17</i>	WELL No. <i>1</i>	LOCATION <i>Unit G 1980' FNL + 1980' FEL</i>

*SEC 16 - T14S - R31E
CHAVES County New Mexico*

STATUS: TA'D producer



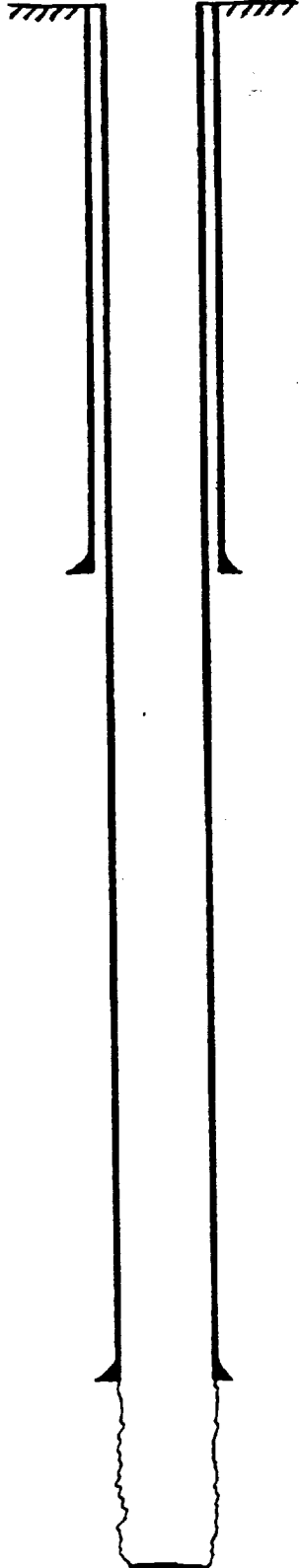
*12 3/4" casing set at 131' with 150 sx of _____ cement
Hole size ?" Circulated*

*7" casing set at 2853' with 125 sx of _____ cement
Total Depth 2868' Hole size 9" TOC 2416
50% efficiency
OH completion 2853-2868'*

OPERATOR Circle Ridge Production Inc		DATE 7-3-91	
LEASE Deickey Queen Smo Unit Tr 18	WELL No. 1	LOCATION Unit I 1980' FSL mo 660' FEL	

Sec 16 - T 14S - R 31E
Chaves County New Mexico

Status: producing



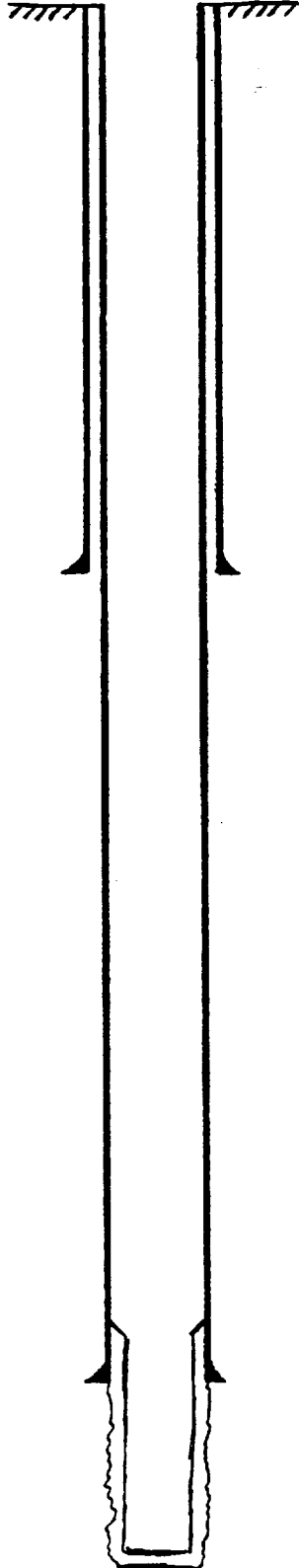
8 5/8 " casing set at 152 ' with 125 sx of _____ cement
Hole size 11 " *Circulated*

5 1/2 " casing set at 2879 ' with 100 sx of _____ cement
Total Depth 2899 ' Hole size 7 7/8 " TOC 2527 '
50% efficiency
OH Completion 2879 - 2899

OPERATOR Circle Ridge Production Inc		DATE 7-3-91	
LEASE Drickey Queen SAND Unit Tr. 24	WELL NO. 2	LOCATION Unit H 1980' FNL AND 660' FEL	

SEC 16 - T14S - R31E
CHAVES County New Mexico

STATUS: WIW



NO SURFACE CASING SET (NO FW BELOW THE CAP)

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

Hole size _____ "

7 " casing set at 2848 ' with 125 sx of _____ cement

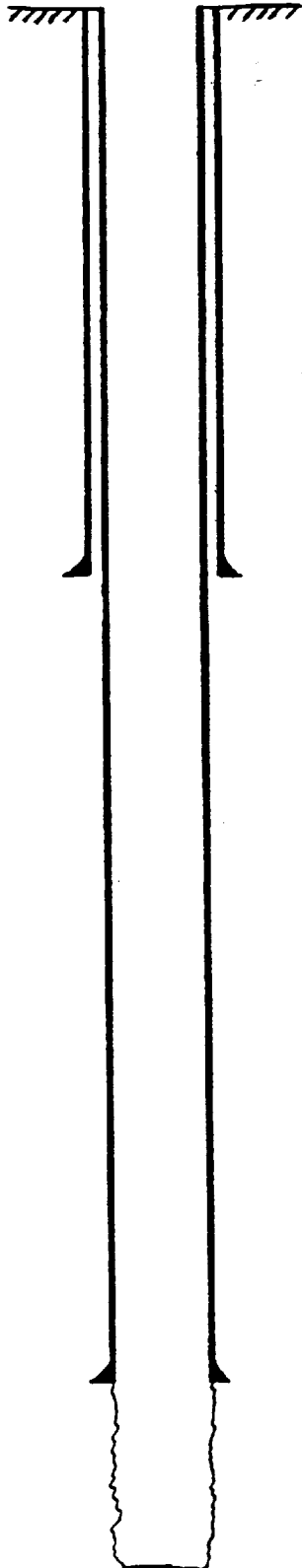
Total Depth 2895 ' Hole size 8³/₄ " TOC 2340
50% efficiency

5/2 LineB set @ 2826 - 2880 w/ 150 sx circ

OPERATOR Circle Ridge Production Inc	DATE 7-3-91	
LEASE Drickey Queen SMO Unit Tr 12	WELL No. 1	LOCATION UNIT B 660' FNL AND 1980' FEL

Sec 16 - T14S - R31E
CHAVES COUNTY, New Mexico

STATUS: WIW
TA'D since 9-1-74



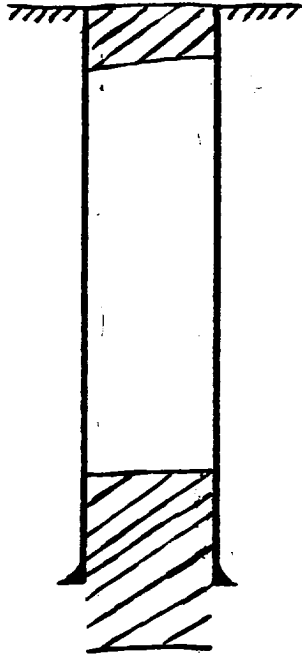
8⁵/₈ " casing set at 173 ' with 100 sx of _____ cement
Hole size 11 " circulated

Open Hole Completion

5¹/₂ " casing set at 2823 ' with 300 sx of _____ cement.
Total Depth 2857 ' Hole size 7⁷/₈ " Toc Calc @
1767' 50% efficiency
OH 2823 - 2857

OPERATOR W.S. Guest and I.J. Wolfson	DATE 7-3-91	
LEASE Drickey Queen SMO Unit Tract 41	WELL No. 1	LOCATION Unit C 660' FWL + 1980' FWL

Sec 16 - T14S - R31E
CHAVES County, New Mexico

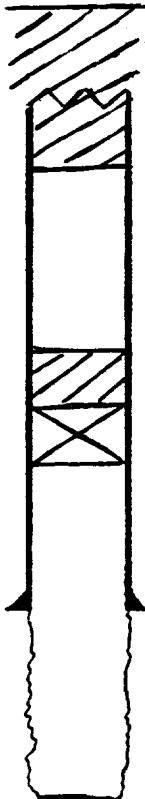


STATUS:
P & A 4-10-74

SPOT 10 SX @ SURFACE

Spot 40 SX plug ACROSS 9 5/8 SHOE

9 5/8 " casing set at 308 ' with 250 sx of _____ cement
Hole size 12 1/4 " Circulated cmt.



Spot 35 SX plug ACROSS 7" SHOE
Shot and pulled 7" CSG @ 700'

CIBP @ 2502' w/ 5 SX cmt

7 " casing set at 2815 ' with 100 sx of _____ cement

Total Depth 2834 ' Hole size 8 3/4 " TOC 2409'
OH 2815 - 2834 50% efficiency

Open Hole completion