

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: P.O. BOX 636, HOBBS, NEW MEXICO 88240
Contact party: JAMES DAVIS Phone: 676-2130
- 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: 7/18/90
- * 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.

III. A

1. ROCK QUEEN UNIT WELL NO. 3
SEC.26 T13S R31E UNIT LETTER C
660 FNL AND 1980 FWL
2. 8 5/8" 24# CSG SET AT 214' WITH 100 SXS CMT CIRC
5 1/2" 14# CSG SET AT 3052' WITH 100 SXS TOC 2342'
100% EFFICIENCY. 2697' 50% EFFICIENCY.
3. Plan to run 2 7/8" plastic lined tubing set at approx.
3010'.
4. Plan to run a Haliburton Tension Packer and set approx.
3010'.

III B

- 1.The injection interval is the Queen Sand, Caprock Queen
Field.
- 2.The injection interval is open-hole 3052 - 3064'.
3. This well was originally drilled as an oil well.
4. None
5. None

Part 5. Attached

Part 6. Attached

- Part 7
1. The average rate of injection will be approx. 150
barrels per day, with a maximum of 300 barrels per
day.
 2. The system will be closed.
 3. The average pressure will be 400 - 500 PSI. with a
maximum of 700 PSI..
 4. The source of the water will be reinjected
produced water.
 5. N/A

Part 3. Previously submitted

Part 9. No stimulation proposed.

Part 10. Previously submitted.

Part 11. 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.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

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

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Circle Ridge Production Inc.

Address
c/o Oil Reports & Gas Services, Inc. Box 755, Hobbs, NM 88241

Reason(s) for filing (Check proper box)

☐ New Well	Change in Transporter of:	
☐ Recompletion	☐ Oil	☐ Dry Gas
☒ Change in Ownership	☐ Casinghead Gas	☐ Condensate

Other (Please explain)
Effective 11-1-86

If change of ownership give name and address of previous owner
Great Western Drlg. Co., P. O. Box 1659, Midland, TX 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name Rock Queen Unit Sec. 26	Well No. 3	Pool Name, including Formation Caprock Queen	Kind of Lease State, Federal or Fee State	Lease No. B-10418
Location Unit Letter <u>C</u> : <u>660</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>West</u> Line of Section <u>26</u> Township <u>13S</u> Range <u>31E</u> , NMPM, <u>Chaves</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Texas-New Mexico Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 2528, Hobbs, NM 88241
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks. Unit <u>G</u> Sec. <u>26</u> Twp. <u>13S</u> Rge. <u>31E</u>	Is gas actually connected? <u>No</u> When

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Donna Walker
(Signature)
Agent
(Title)
11-13-86
(Date)

OIL CONSERVATION DIVISION

APPROVED NOV 1 8 1986, 19
BY DISTRICT SUPERVISOR
TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

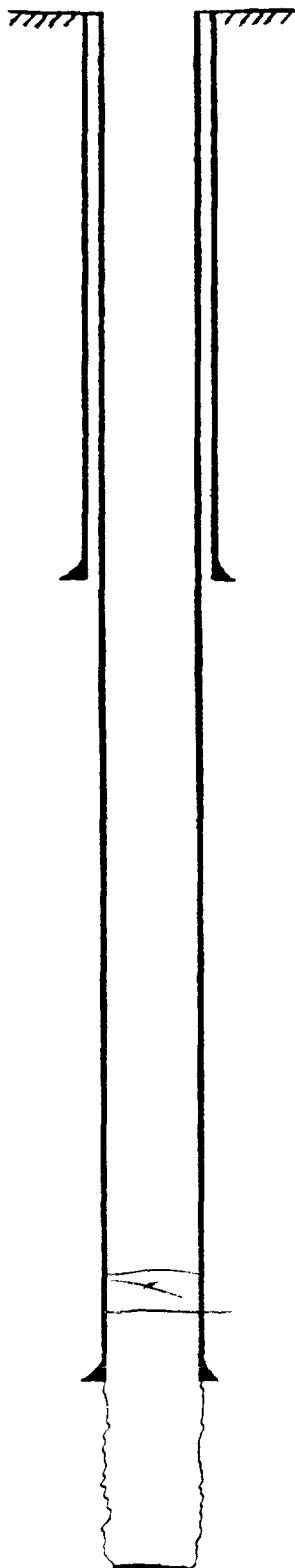
Separate Forms C-104 must be filed for each pool in multiply completed wells.

[illegible]

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90
LEASE	Rock Queen Unit	WELL No.	3	LOCATION SEC 26 T13S-R31E UNIT C

STATUS: producer

OH 3052 - 3064'



8 5/8 " casing set at 214 ' with 100 sx of NEAT cement

Hole size 12 1/4 " circ

5 1/2 " casing set at 3052 ' with 100 sx of NEAT cemer

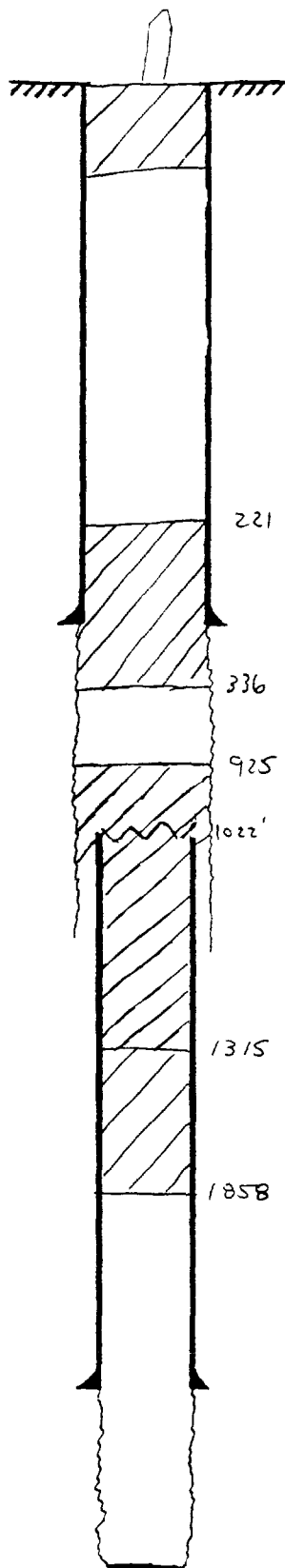
Total Depth 3064 ' Hole size 6 3/4 " TOC 2697' 50% efficiency

OH 3052 - 3064'

OPERATOR	GREAT WESTERN DRILLING CO.		DATE	7-11-90
LEASE	ROCK QUEEN UNIT	WELL No.	14	
		LOCATION	Sec 23 T13S R31E unit N	

Status : P+A

2-17-76



10 SXS @ surface

25 SXS @ 336-221'

7 5/8 " casing set at 296 ' with 200 sx of NEAT cement
Hole size 11 " Circ. cmt.

SHOT and pulled 4 1/2 " casing @ 1022 '
Set 40 sx plug from 1315 to 925 '

Could not get below 1858 ' set 35 sx plug @
1858 - 1315 ' plugging procedure approved by
Jerry Sexton

4 1/2 " casing set at 3028 ' with 75 sx of NEAT cement
Total Depth 3038 ' Hole size 6 3/4 " TOC 2694 '
50% efficiency

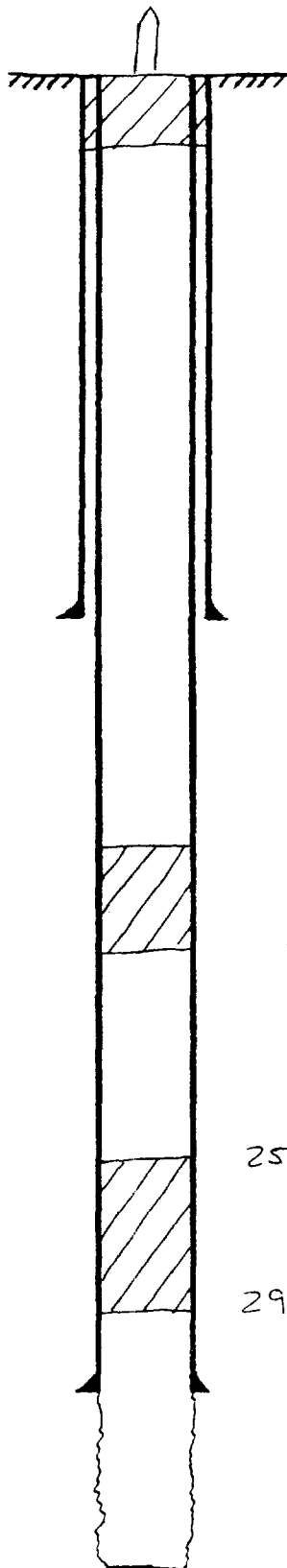
OH 3028 - 3038

OPERATOR GREAT WESTERN DRILLING CO.		DATE 7-11-90
LEASE ROCK QUEEN UNIT	WELL No. 2	LOCATION Sec 26-T13S-R31E Unit B

STATUS: P+A 1-22-76

NO Casing Pulled

10 SX Surface plug



7 5/8 " casing set at 305 ' with 250 sx of NEAT cement
Hole size 11 " circ cmt.

1326

15 sx plug @ 1520-1326'

1520

2516

50 sxs plug @ 2956-2516' Tagged

2956

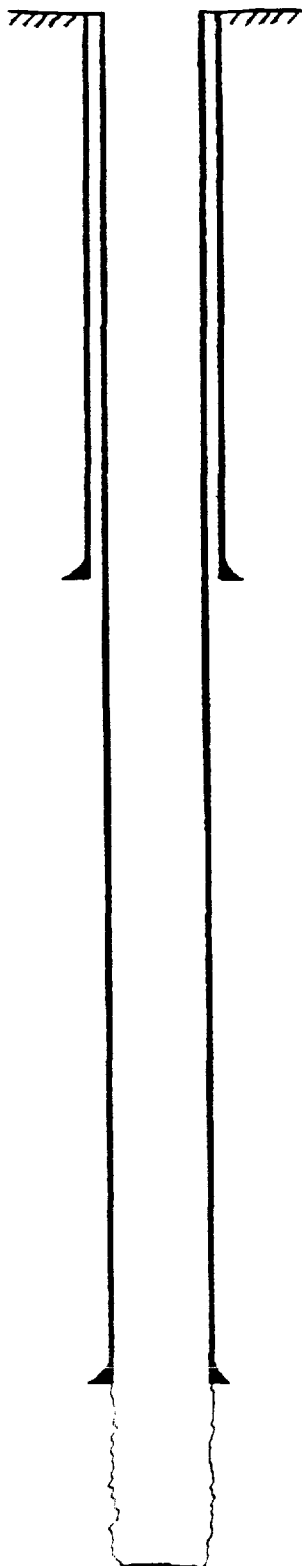
4 1/2 " casing set at 3050 ' with 1075 sx of NEAT cement
Total Depth 3070 ' Hole size 6 3/4 " Circ 225 SXS.

DH 3050-3070

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90
LEASE	Rock Queen Unit	WELL No.	11	LOCATION Sec 23 T13S R31E unit K

STATUS: producer

OH 3043-3062'



7 5/8 " casing set at 291 ' with 200 sx of regular cement

Hole size 11 " circ. cmt

4 1/2 " casing set at 3043 ' with 50 sx of regular cement

Total Depth 3062 ' Hole size 6 3/4 " TOC 2820'

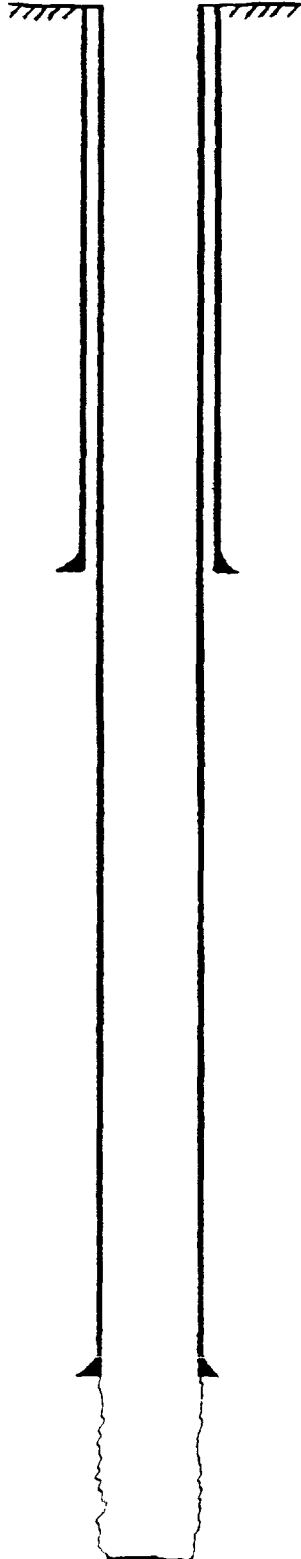
50% efficiency

OH 3043-3062'

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL NO. 13	LOCATION Sec 23 T13S R31E unit M	

STATUS: Producer

OH 3051 - 3067'



7 5/8 " casing set at 304 ' with 250 sx of regulr cement

Hole size 11 " CMC. 40 5x5

4 1/2 " casing set at 3051 ' with 75 sx of regulr ceme

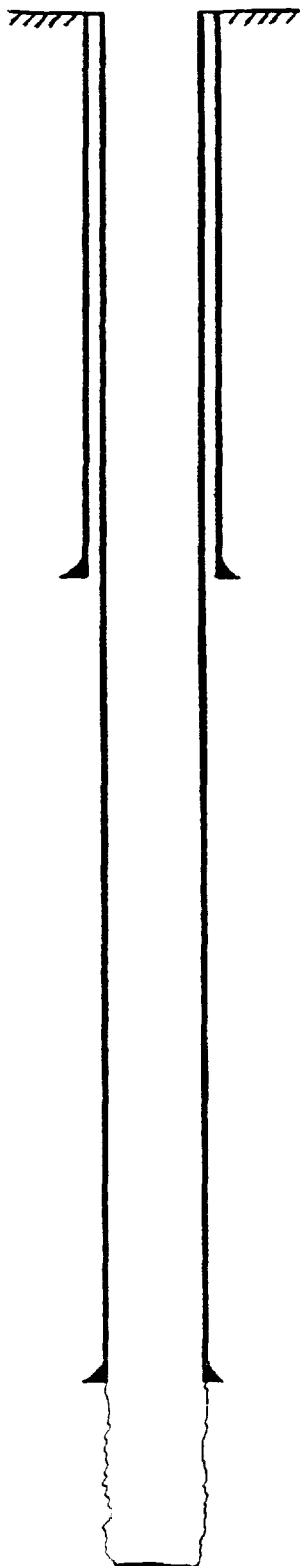
Total Depth 3067 ' Hole size 6 3/4 " TOC 2717'

50% efficiency

OH 3051 - 3067'

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL No. 15	LOCATION SEC 23 T13S R31E Unit 0	

STATUS : TA'D

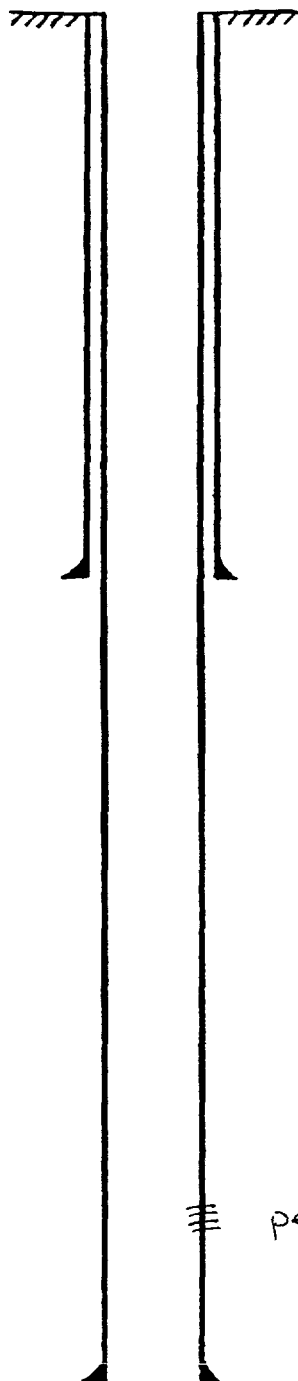


8 5/8 " casing set at 198 ' with 100 sx of NEAT cement
Hole size 11 " Circ.

5 1/2 " casing set at 3035 ' with 125 sx of NEAT ceme
Total Depth 3047 ' Hole size 8 " TOC 2591'
OH 3035 - 3047 ' 50% efficiency

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90
LEASE Rock Queen Unit	WELL No. 1	LOCATION Sec 27 T13S R31E unit A

Status: Producer
perfs 3047½ - 3052½



9 " casing set at 325 ' with 145 sx of NEAT cement
Hole size 11 " Circ.

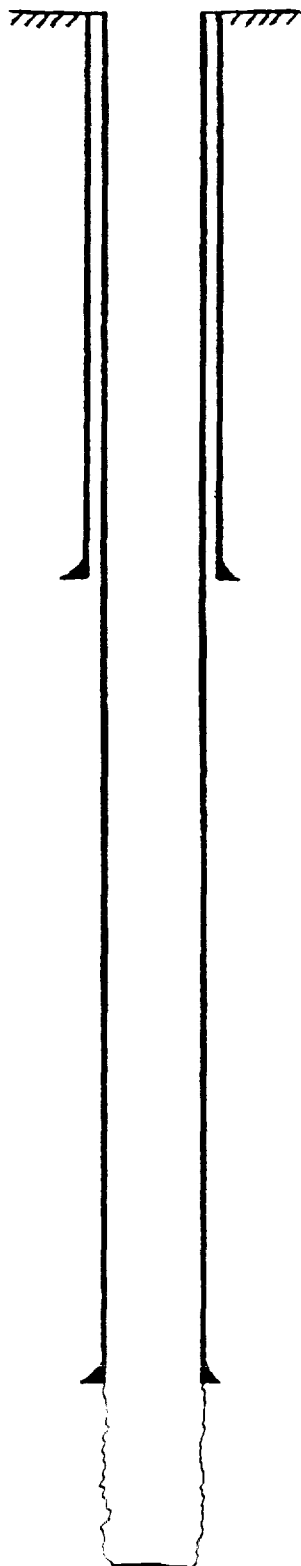
perfs 3047½ - 3052½

6 " casing set at 3065 ' with 100 sx of NEAT cement
Total Depth 3065 ' Hole size 8 " TOC 2662'
50% efficiency

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL NO. 1	LOCATION SEC 26-T13S-R31E Unit A	

STATUS: PRODUCER

OH 3053-3065



8 5/8 " casing set at 305 ' with 140 sx of NEAT cement

Hole size 11 " CIRC

5 1/2 " casing set at 3053 ' with 125 sx of NEAT ceme

Total Depth 3065 ' Hole size 8 " TOC 2609'

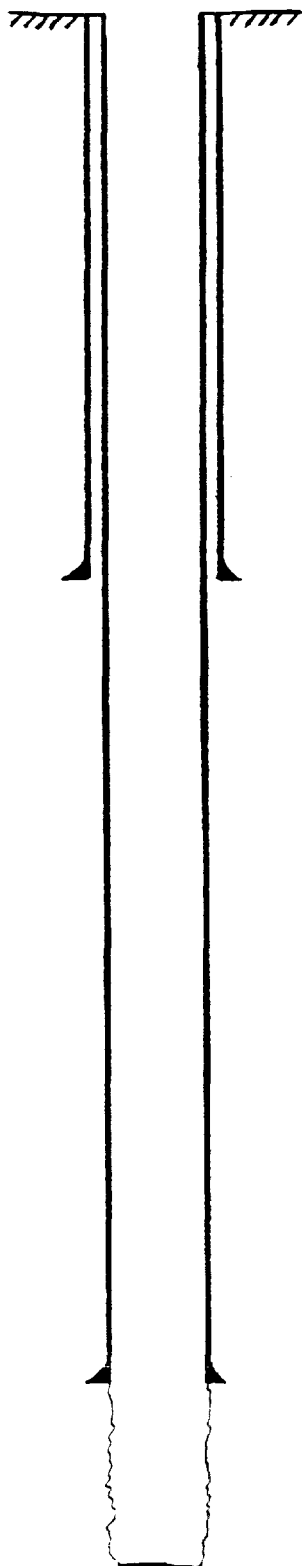
50 % efficiency

OH 3053-3065'

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90
LEASE	Rock Queen Unit	WELL No.	7	
		LOCATION	SEC 26 T13S R31E Unit 6	

STATUS: PRODUCER

OH 3049-3057'



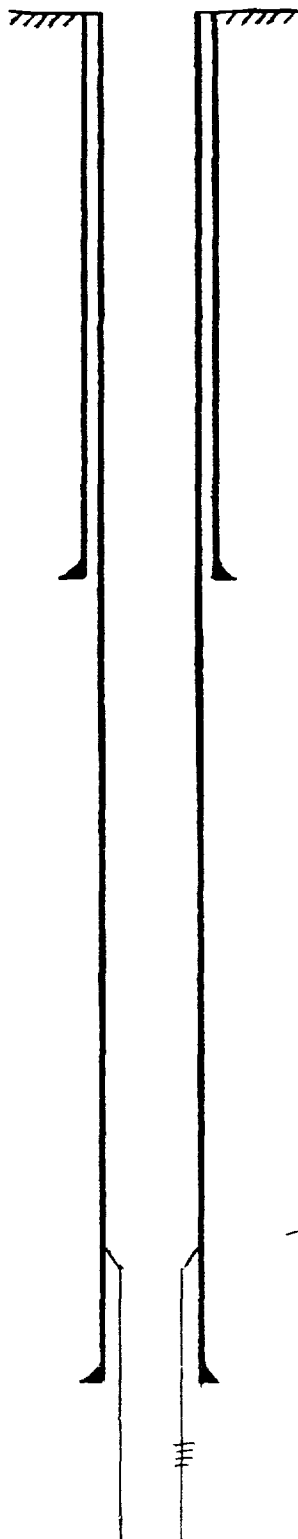
8 5/8 " casing set at 289 ' with 175 sx of regular cement
Hole size 12 1/2 " Circ.

5 1/2 " casing set at 3049 ' with 200 sx of regular ceme
Total Depth 3057 ' Hole size 8 " TOC 2380'
50% efficiency

OH 3049-3057'

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90	
LEASE	Rock Queen Unit	WELL No.	8	LOCATION	Sec 26 T13S R31E Unit H

STATUS : TA'D



8⁵/₈ " casing set at 306 ' with 175 sx of NEAT cement
Hole size 12¹/₄ " Circ.

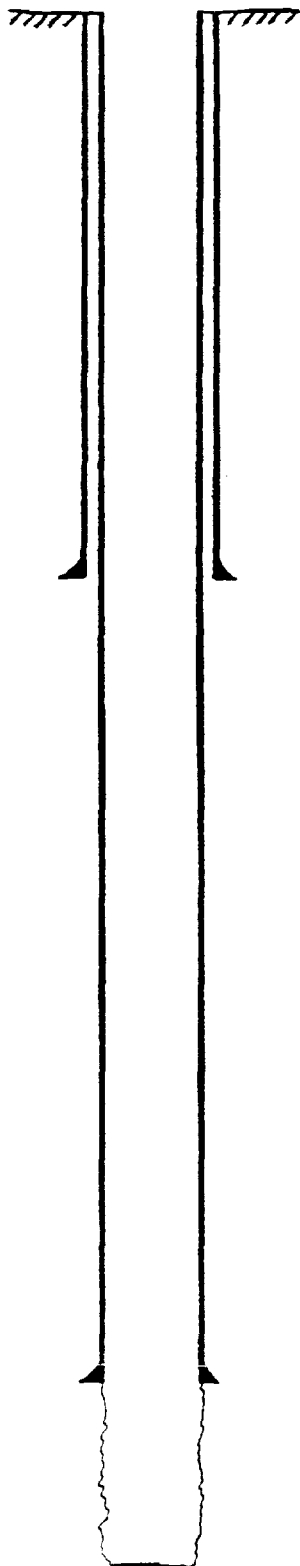
Top of Liner @ 3012'

5¹/₂ " casing set at 3060 ' with 125 sx of NEAT cement
Total Depth 3070 ' Hole size 8 " TOL 2642'
RAM 45' 4¹/₂" Liner set @ 3057 w/ 35 sxs
perf 3047-3051' 50% efficiency

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL No. 10	LOCATION SEC 26 T13S R31E Unit J	

STATUS: Injection Well

OH 3049 - 3058'



8 5/8 " casing set at 193 ' with 100 sx of NEAT cement

Hole size 11 " CIRC.

5 1/2 " casing set at 3049 ' with 125 sx of NEAT cement

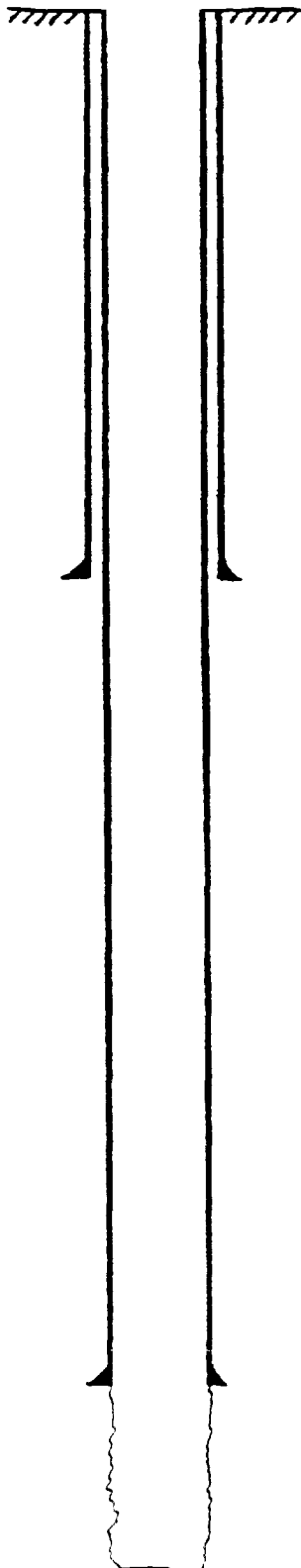
Total Depth 3058 ' Hole size 8 " TOC 2631'

50% efficiency

OH 3049 - 3058

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90
LEASE Rock Queen Unit	WELL No. 12	LOCATION Sec 26 T13S R31E unit L

STATUS: TA'D



8 5/8 " casing set at 205 ' with 100 sx of NEAT cemen
Hole size 11 " Circ.

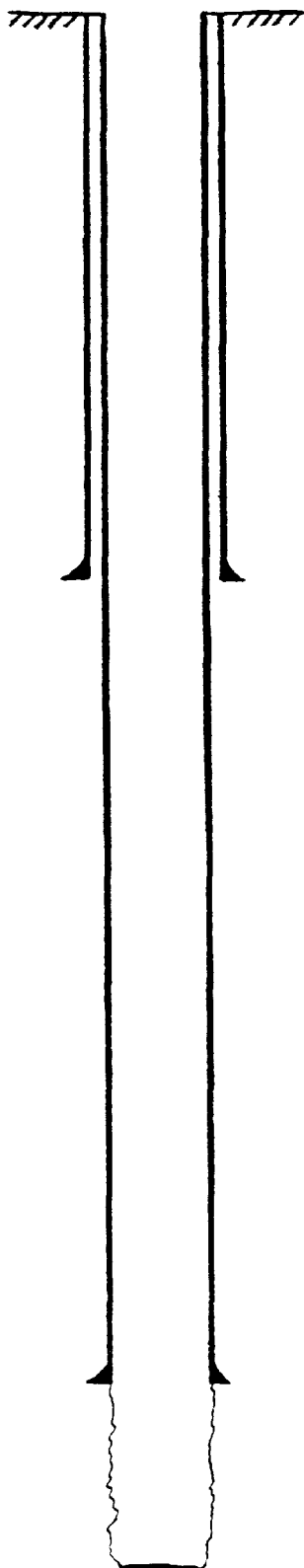
5 1/2 " casing set at 3022 ' with 100 sx of NEAT cem
Total Depth 3032 ' Hole size 8 " TOC 2687'
50% efficiency

OH 3022 - 3032

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL No. 11	LOCATION SEC 26 T13S R31E unit K	

STATUS: Producer

OH 3022-3033



8 5/8 " casing set at 223 ' with 100 sx of NEAT cemen

Hole size 11 " CIRCL

5 1/2 " casing set at 3022 ' with 100 sx of NEAT ceme

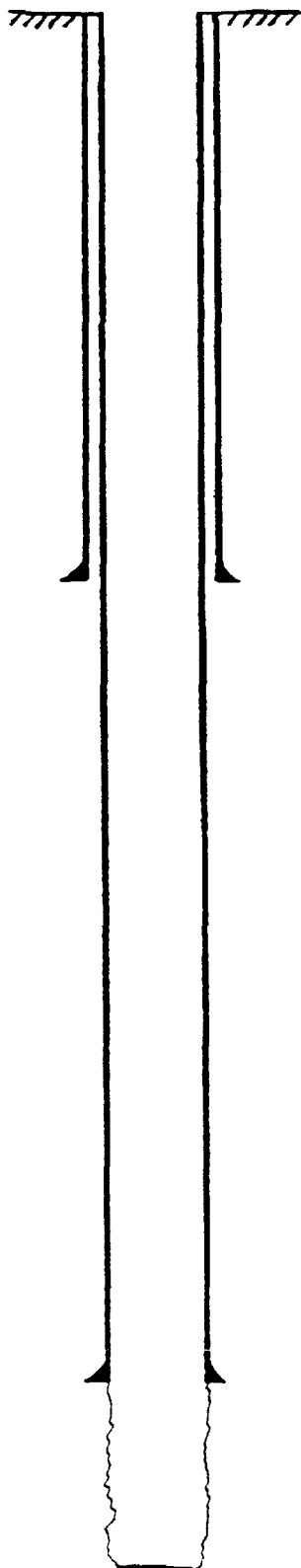
Total Depth 3033 ' Hole size 8 " TOC 2687'

50% efficiency

OH 3022 - 3033

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90
LEASE	Rock Queen Unit	WELL No.	4	LOCATION SEC 26 T13S R31E Unit Δ

STATUS: Injection well
OH 3034-3051



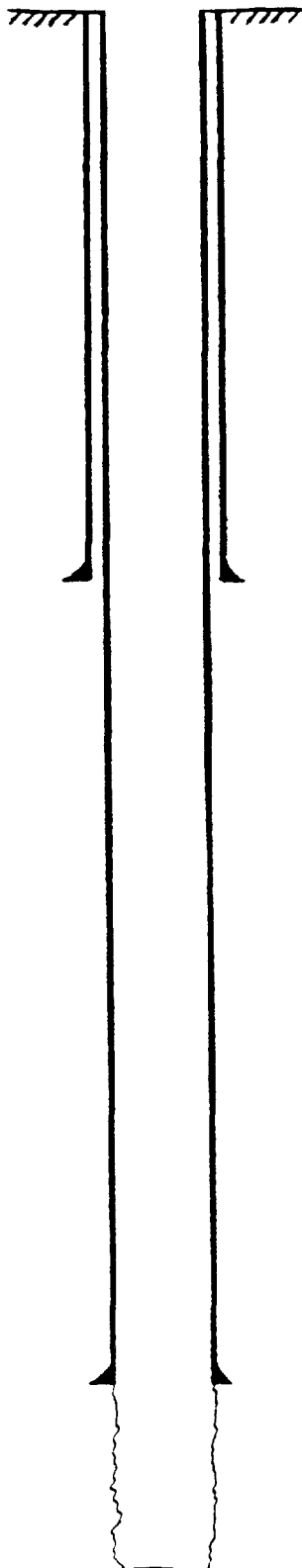
8 5/8 " casing set at 260 ' with 100 sx of NEAT cement
Hole size 12 1/4 " Circ.

5 1/2 " casing set at 3034 ' with 100 sx of NEAT cement
Total Depth 3051 ' Hole size 8 " TOC 2699 '
50% efficiency

OH 3034-3051

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90
LEASE Rock Queen Unit	WELL No S	LOCATION SEC 26 T13S R31E Unit E

STATUS: producer
OH 3036-3055'



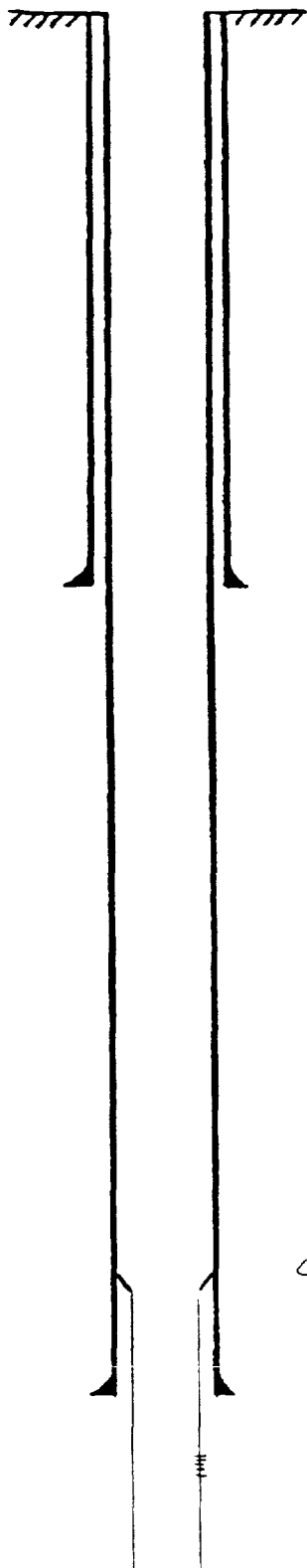
8 5/8 " casing set at 263 ' with 140 sx of NEAT cement
Hole size 12 1/4 " circ

5 1/2 " casing set at 3036 ' with 100 sx of NEAT cement
Total Depth 3055 ' Hole size 8 " TOC 2701'
50 % efficiency

OH 3036-3055'

OPERATOR	Circle Ridge Production Inc.		DATE	7-11-90
LEASE	Rock Queen Unit	WELL No.	6	LOCATION SEC 26 T13S R31E Unit F

STATUS: Injection Well
perfs 3036-3044



8 5/8 " casing set at 225 ' with 125 sx of NEAT cemen
Hole size 12 1/4 " circ.

Liner Top @ 2988'

5 1/2 " casing set at 3042 ' with 100 sx of NEAT cemen
Total Depth 3052 ' Hole size 8 " TOC 2707 '
Set 64' of 4 1/2" Liner @ 3052 w/ 35 SXS
Perf 3036-3044
50% efficiency