



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

2-7-92

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

WFX-625

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	_____
WFX	<input checked="" type="checkbox"/> _____
PMX	_____

Gentlemen:

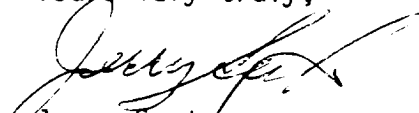
I have examined the application for the:

<u>Circle Ridge Prod. Inc.</u>	<u>Rock Queen Unit</u>	<u>Sec 26 #11-K</u>	<u>26-13-31</u>
Operator	Lease & Well No.	Unit	S-T-R

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: 601 W. Illinois, Hobbs, NM 88240
Contact party: James Davis Phone: (505)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 R-1541.
- 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: Eddie W. Seay Title: Agent 505-392-2236
Signature: Eddie W. Seay Date: January 31, 1992
- * 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.
ROCK QUEEN UNIT

III. A

1. ROCK QUEEN UNIT WELL NO. 11-K
SECT. 26 T13S R31E
1980/S 1980/W CHAVES CO., NM
2. 8 5/8" 24# CSG SET AT 223' WITH 100 SXS CMT CIRC
5 1/2" 14# CSG SET AT 3022' WITH 100 SXS CMT
TOC 2687 WITH 50% EFFICIENCY
TOC 2361 WITH 100% EFFICIENCY
3. Plan to run 2 7/8" plastic lined tubing set at approx.
3000'.
4. Plan to run a Baker Tension Packer and set approx. 3000'.

III. B

1. The injection interval is the Queen Sand, Caprock Queen Field.
2. The injection interval is open-hole 3022'-3033'.
3. The 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.
200 bls. per day with maximum of 300 bls. 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 water will be reinjected produced
water.
 5. N/A

Part 8. Previously submitted.

Part 9. No stimulation proposed.

Part 10. Previously submitted.

Part 11. All available geologic and engineering data has been examined and no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water were found.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
OPERATOR	GAS
PRODUCTION 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) Other (Please explain)

<input type="checkbox"/> New Well	Change in Transporter of:	
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input checked="" type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Condensate

Effective 11-1-86

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

II. DESCRIPTION OF WELL AND LEASE

Lease Name Rock Queen Unit Sec. 26	Well No. 11	Pool Name, including Formation Caprock Queen	Kind of Lease State, Federal or Fee State	Lease No. B-104
Location Unit Letter K : 1980 Feet From The South Line and 1980 Feet From The West				
Line of Section 26 Township 13S Range 31E, NMPM, Chaves Count				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> 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 <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	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 Sec. Twp. Rge. Is gas actually connected? When
G 26 13S 31E No	

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.

Monica Wells
(Signature)
Agent
(Title)
11-13-86
(Date)

OIL CONSERVATION DIVISION

APPROVED NOV 18 1986, 19
BY ORIGINAL SIGNED BY JERRY SUTTON
DISTRICT I 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 deviatric 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.

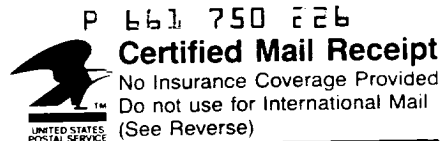
Separate Forms C-104 must be filed for each pool in multiple completed wells.

[illegible]



Sent to	
Mr. E.P. Caudill	
Street & No	
21401 N. Denver City Hwy	
P.O., State & ZIP Code	
Hobbs, NM 88240	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$229
Postmark or Date	

PS Form 3800, June 1990



Sent to	
Commissioner of Public Lands	
Street & No	
P.O.Box 1148	
P.O., State & ZIP Code	
Santa Fe, NM 87504	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$229
Postmark or Date	

PS Form 3800, June 1990

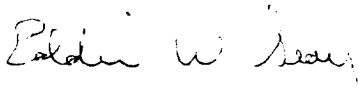
January 31, 1992

Dear Sir,

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Circle Ridge Production, Inc. has filed for expansion of their Rock Queen Unit in accordance with OCD R-1541. Circle Ridge Production, Inc. wish to convert well #11 Unit K 1980/S, 1980/W, Sect. 26, Township 13, Range 31 E., Chaves Co., NM, from production to injection, for the reinjection of produced water, approximately 200 Bls. per day at 500# pressure, into the Queen formation.

Any questions or objections must be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501, within 15 days.

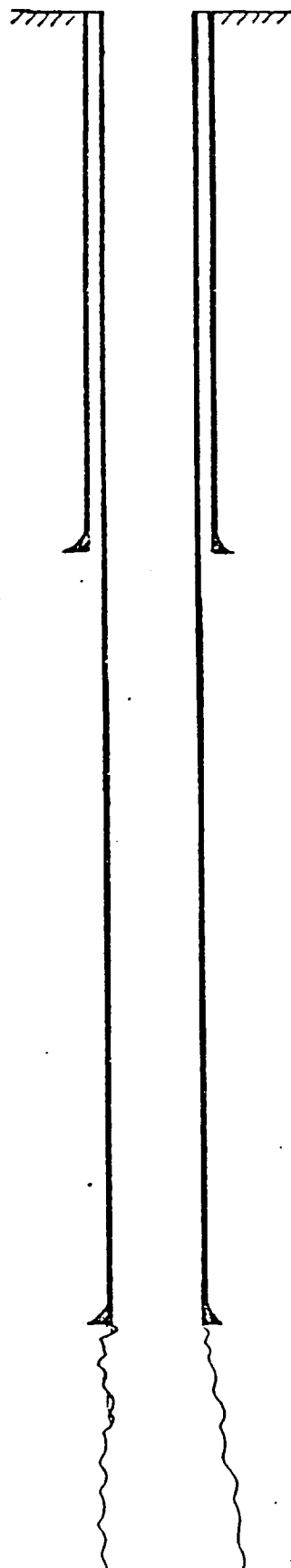
Sincerely,

A handwritten signature in cursive script, appearing to read "Eddie W. Seay".

Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88240
(505)392-2236

OPERATOR	Circle Ridge Prod Inc		DATE	1-29-91
LEASE	Rock River Unit	WELL No.	11	
		LOCATION	Sec 26 T13 R31E Unit K	

Producer

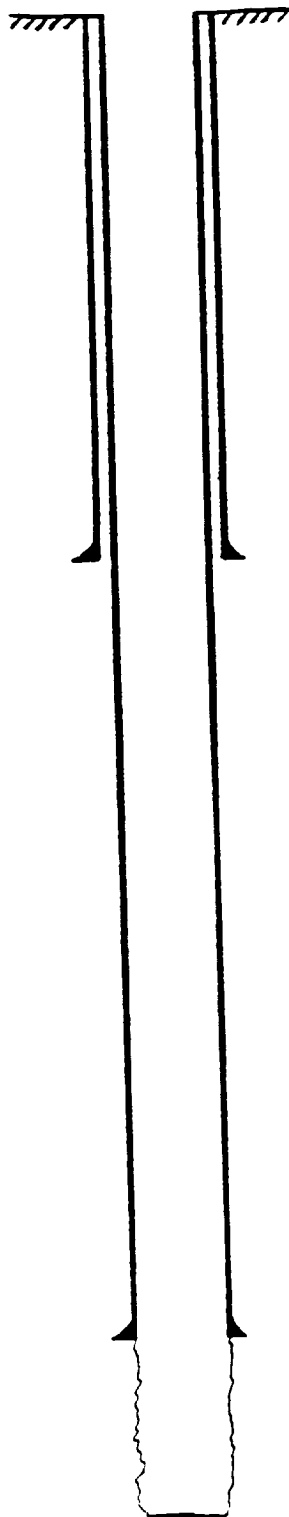


8 5/8 " casing set at 323 ' with 100 sx of Neat ceme
Hole size 11 " cme

5 1/2 " casing set at 3022 ' with 100 sx of Neat cen
Total Depth 3033 ' Hole size 8 " TOC 2687
50% efficiency
OH 3022 - 3033

OPERATOR	Circle Ridge Production Inc.		DATE	1-29-91
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 cen
Hole size 11 " circ.

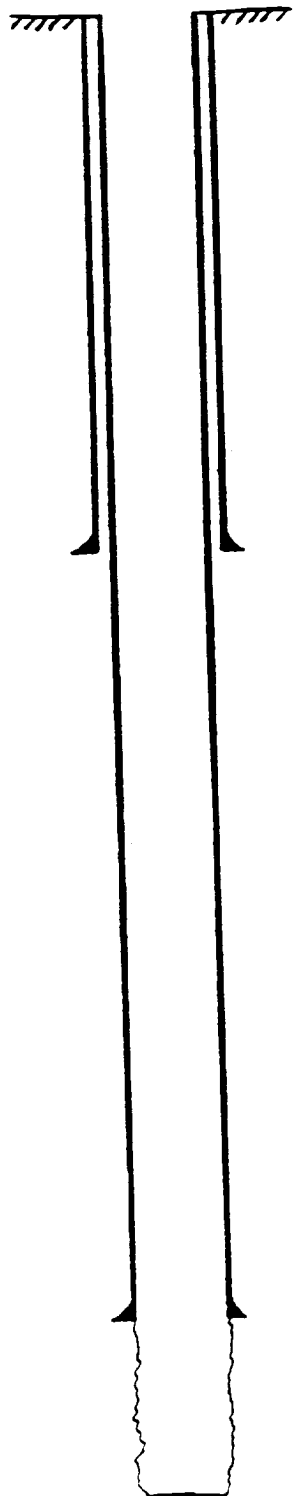
5 1/2 " casing set at 3022 ' with 100 sx of NEAT c
Total Depth 3032 ' Hole size 8 " TOC 2687'
50% efficient

OH 3022 - 3032

OPERATOR	Circle Ridge Production Inc.		DATE	1-29-91
LEASE	Rock Queen Unit	WELL NO	10	LOCATION SEC 26 T13S R31E Unit J

STATUS: Injection Well

OH 3049 - 3058'



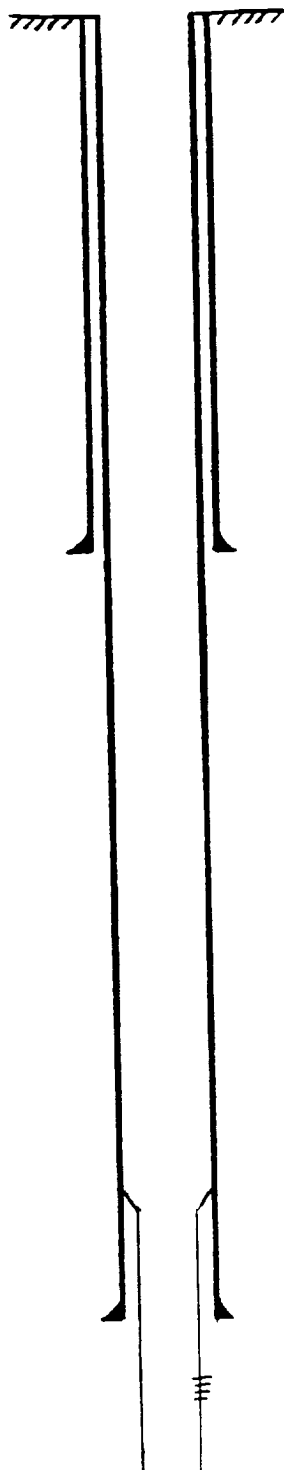
8 5/8 " casing set at 193 ' with 100 sx of NEAT cen
Hole size 11 " CIRC.

5 1/2 " casing set at 3049 ' with 125 sx of NEAT c
Total Depth 3058 ' Hole size 8 " TOC 2631'
50% efficie

OH 3049 - 3058

OPERATOR	Circle Ridge Production Inc.		DATE	1-29-91
LEASE	Rock Queen Unit	WELL No.	8	LOCATION Sec 26 T13S R31E Unit H

STATUS : T A ' O



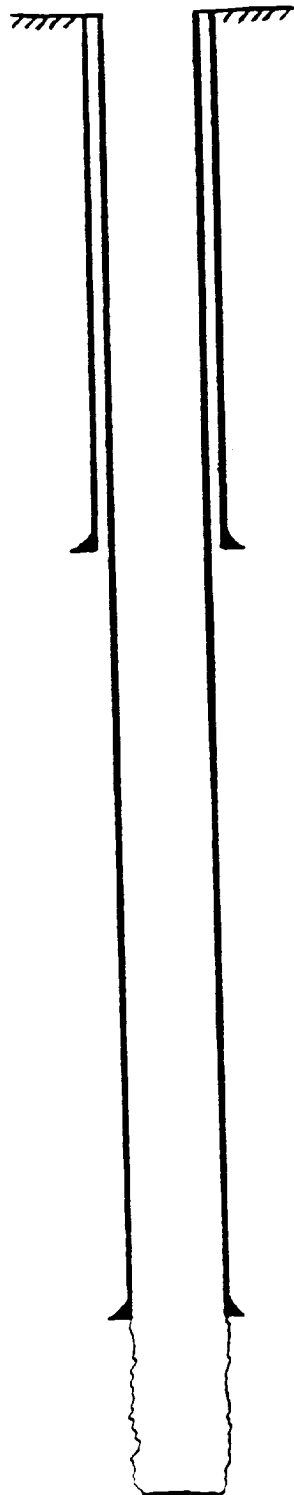
8 5/8 " casing set at 306 ' with 175 sx of NEAT cement
Hole size 12 1/4 " Circ.

Top of Liner @ 3012'

5 1/2 " casing set at 3060 ' with 125 sx of NEAT cement
Total Depth 3070 ' Hole size 8 " TOC 2642' 50% efficiency
Run 45' 4 1/2" Liner set @ 3057 w/ 35 SXS
Perf 3047-3051'

OPERATOR	Circle Ridge Production Inc.	DATE	1-29-91
LEASE	Rock Queen Unit	WELL No	7
		LOCATION	SEC 26 T13S R31E Unit 6

STATUS: PRODUCER
OH 3049-3057'



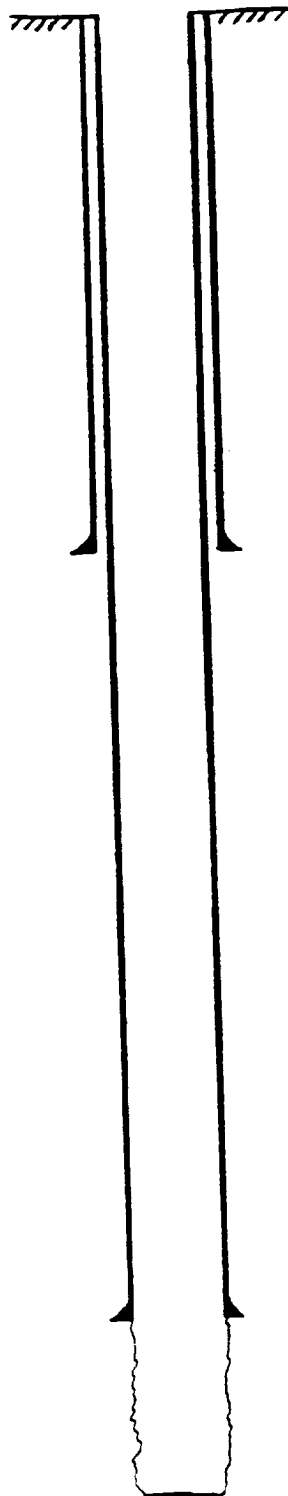
8 5/8 " casing set at 289 ' with 175 sx of regular cement
Hole size 12 1/2 " Circ.

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

OPERATOR	Circle Ridge Production Inc.		DATE	1-29-91
LEASE	Rock Queen Unit	WELL No.	3	LOCATION SEC 26 T13S-R31E Unit C

STATUS: producer

OH 3052 - 3064'



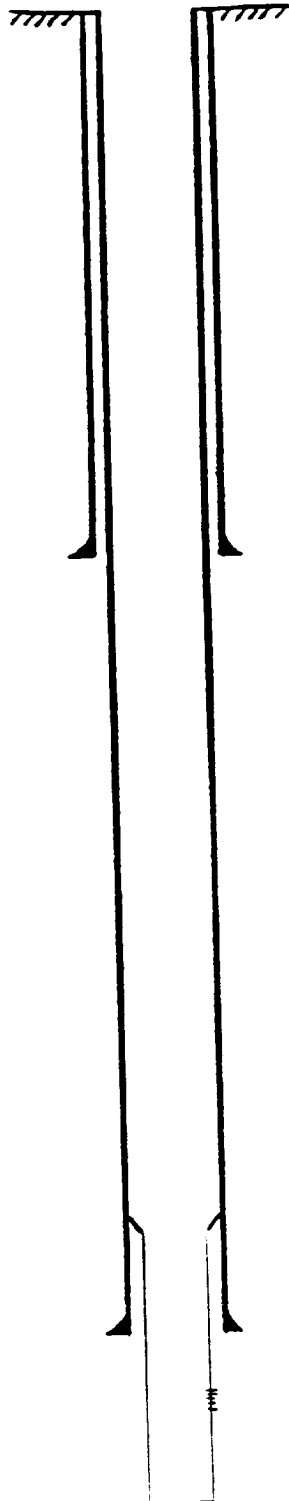
8 5/8 " casing set at 214 ' with 100 sx of NEAT cem
Hole size 12 1/4 " circ

5 1/2 " casing set at 3052 ' with 100 sx of NEAT ce
Total Depth 3064 ' Hole size 6 3/4 " TOC 2697 '
507s effici

OH 3052 - 3064'

OPERATOR	Circle Ridge Production Inc.		DATE	1-29-91
LEASE	Rock Queen Unit	WELL NO.	6	LOCATION SEC 26 T.35 R.31 E. Unit F

STATUS: Injection Well
perfs 3036-3044



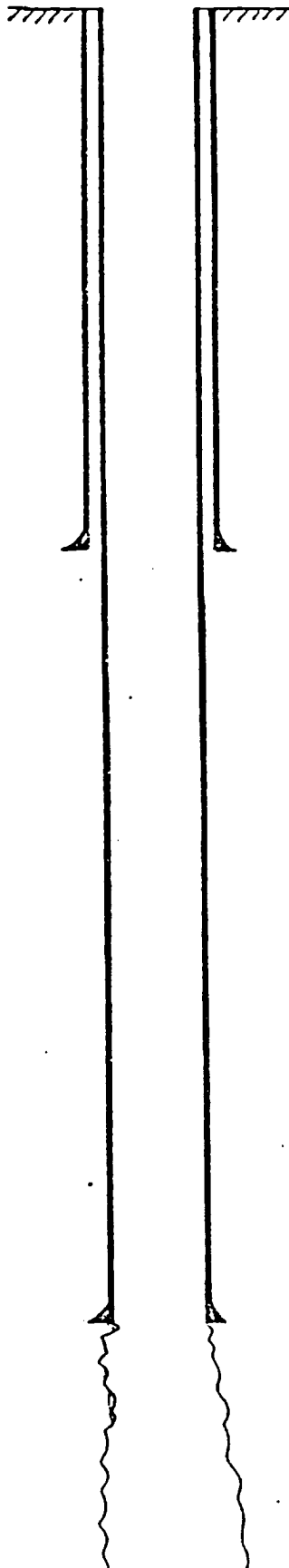
8 5/8 " casing set at 225 ' with 125 sx of NEAT cel
Hole size 12 1/4 " circ.

Liner Top @ 2988'

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

OPERATOR	Circle Ridge Prod. Inc.		DATE	1-29-91
LEASE	Rock Dunes Unit	WELL No.	13	LOCATION Sec 26 T13 R31 Unit m

Producing well.



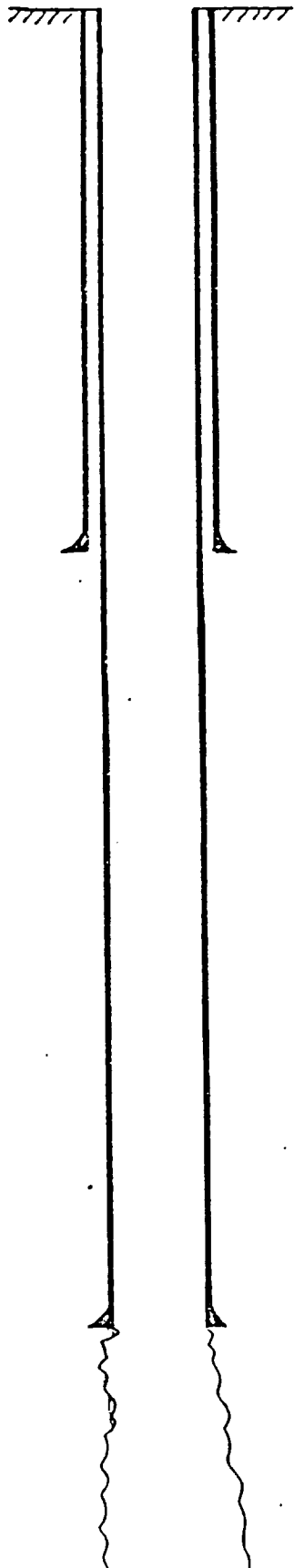
8 5/8 " casing set at 328 ' with 300 sx of Neat ceme
Hole size 11 " circ

5 1/2 " casing set at 3026 ' with 1550 sx of Neat cem
Total Depth 3049 ' Hole size 8 " cement Circ

OH - 3026 - 3049

OPERATOR	Circle Ridge Prod Inc		DATE	1-29-91
LEASE	Rock Queen Unit	WELL No.	9	LOCATION
				Sec 27 T13 R31 Unit I

Ins well



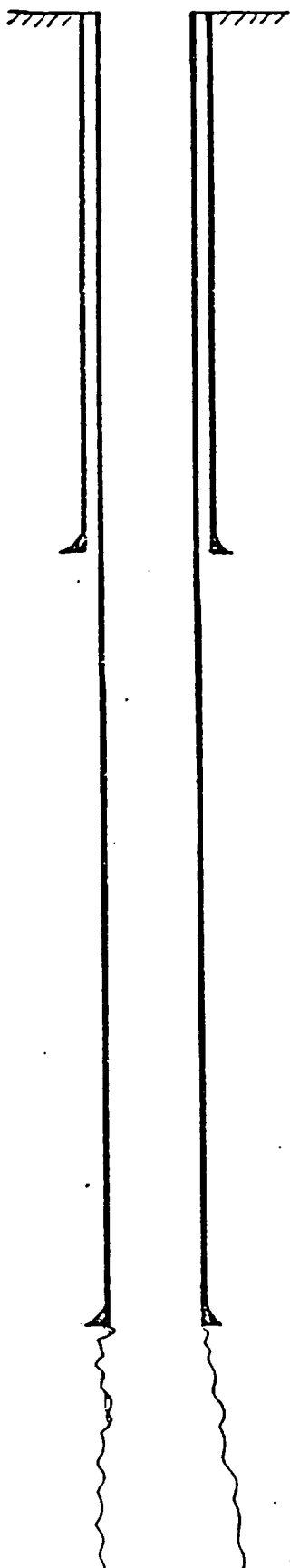
8 5/8 " casing set at 317 ' with 200 sx of Neat ceme
Hole size 12 1/4 " cme

5 1/2 " casing set at 3020 ' with 200 sx of Neat cen
Total Depth 3028 ' Hole size 6 3/4 " TDC 2308
50% efficiency

OH - 3020 - 3028

OPERATOR	Circle Ridge Prod. Inc.		DATE	1-29-91
LEASE	Rock Area Unit	WELL No.	15	LOCATION Se 26 T13 R31 Unit 0

Producing well

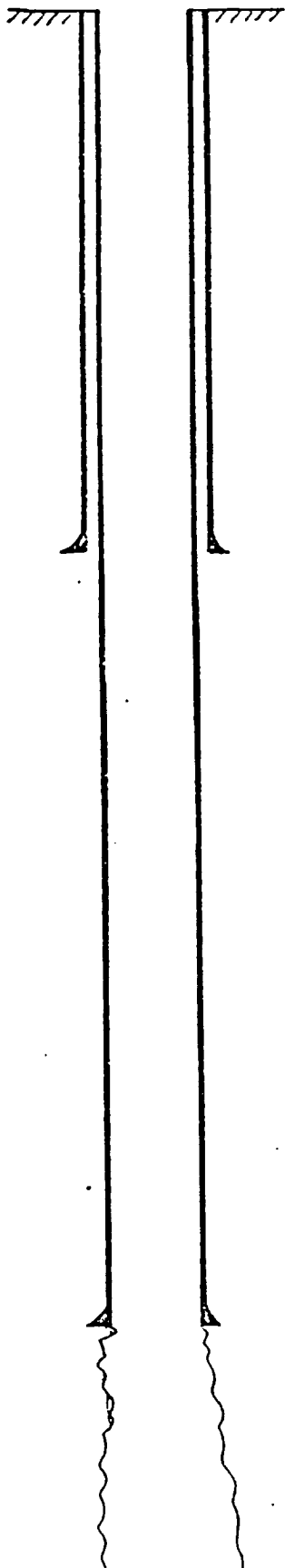


8 5/8 " casing set at 186 ' with 125 sx of Neat ceme
Hole size 11 " cir

5 1/2 " casing set at 3043 ' with 100 sx of Neat cem
Total Depth 3050 ' Hole size 8 " TOC 2684
OH 3043-3050 5070 efficiency

OPERATOR <u>Circle Ridge Prod Inc</u>		DATE <u>1-29-91</u>	
LEASE <u>Rock Dream Unit</u>	WELL No. <u>14</u>	LOCATION <u>Sec 26-13-31</u>	<u>Unit N</u>

Ing. well



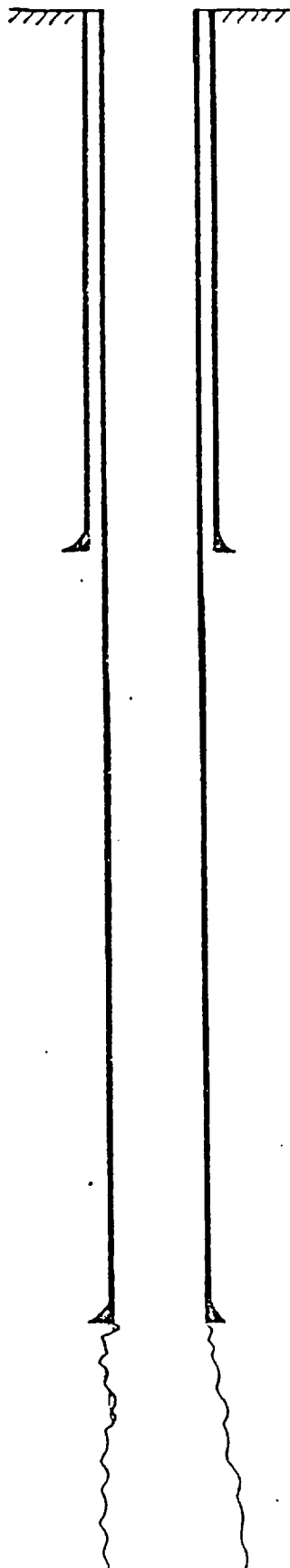
8 5/8 " casing set at 312 ' with 300 sx of Neat ceme
Hole size 11 " circ

5 1/2 " casing set at 3021 ' with 1550 sx of Neat cem
Total Depth 3041 ' Hole size 8 " Cement Circ

OH 3021-3041

OPERATOR	Circle Ridge Prod. Inc.		DATE	1-29-91
LEASE	Rock Swan Unit	WELL No.	8	LOCATION Sec 26 T13 R31 Unit H

Temp. Ab.

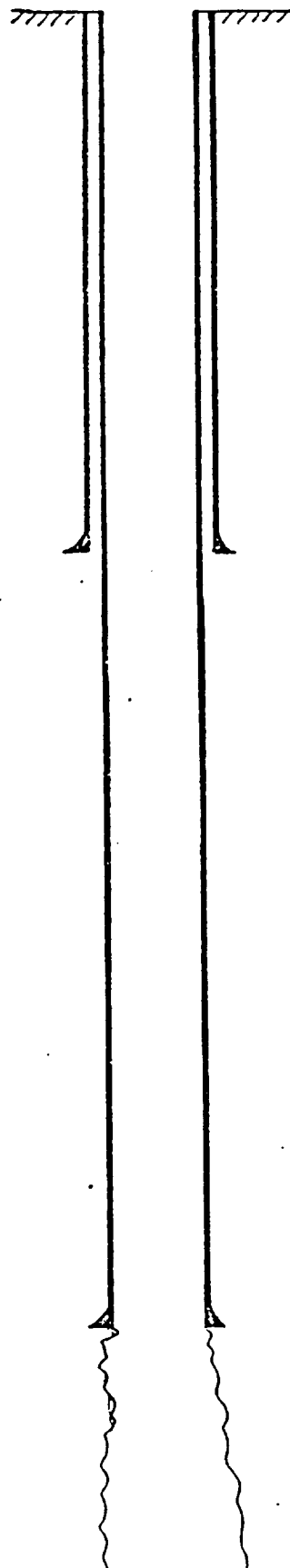


8 5/8 " casing set at 306 ' with 175 sx of Neat ceme
Hole size 11 " bit

5 1/2 " casing set at 3060 ' with 125 sx of Neat cen
Total Depth 3070 ' Hole size 8 " T_{oc} 2693
50% efficiency
DH 3060 - 3070

OPERATOR	Circle Ridge Prod. Inc.		DATE	1-29-91
LEASE	Rock River Unit	WELL No.	116	LOCATION
			Sec 26 T13 R31	Unit P

Ins. well



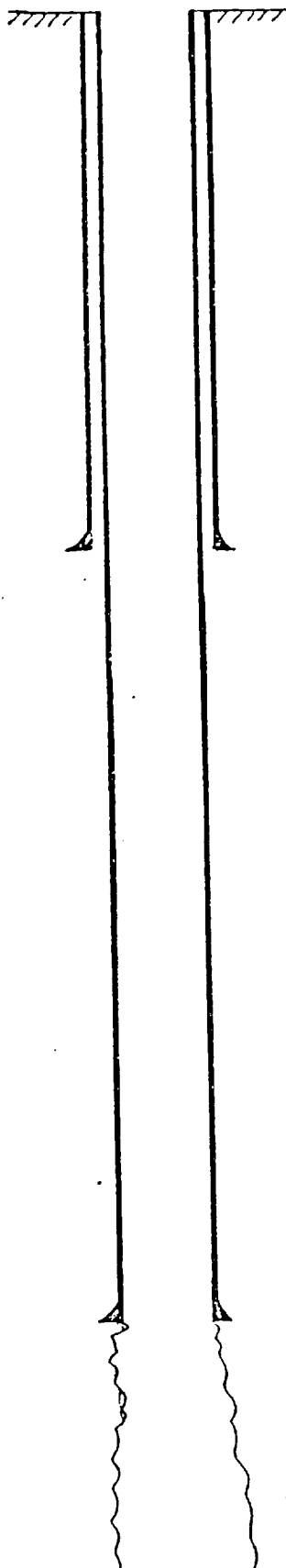
8 5/8 " casing set at 150 ' with 100 sx of Neat cement
Hole size 11 " Circ

5 1/2 " casing set at 3048 ' with 100 sx of Neat cement
Total Depth 3050 ' Hole size 8 " Foc 2710
50% efficiency

OH 3048-3050

OPERATOR	Circle Ridge Prod Inc.		DATE	1-29-91
LEASE	Rock Ave Unit	WELL No.	3	LOCATION Sec 26 T13 R31 Unit C

Prod well



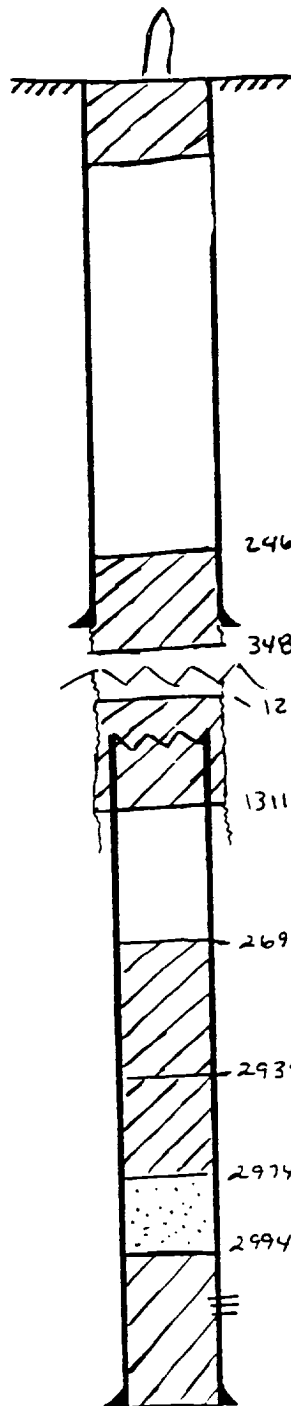
9 $\frac{5}{8}$ " casing set at 303 ' with 250 sx of Neat cemen
Hole size 11 " Circ

5 $\frac{1}{2}$ " casing set at 3041 ' with 100 sx of Neat cemen
Total Depth 3059 ' Hole size 8 " To c 2691
50% H.C. 2691

OH 3041 - 3059

OPERATOR	GREAT WESTERN DRILLING CO.		DATE	1-29-91
LEASE	ROCK QUEEN UNIT	WELL NO.	8	
		LOCATION	Sec 27 T13S-R31E Unit 4	

STATUS: P+A
3-6-76



10 5x5 @ surface

30 5x5 @ 348-246'

246'
348' 9 5/8 " casing set at 306 ' with 140 sx of Neat cement
Hole size 12 1/4 " Circ. cut.

1211'
1311' SHOT AND pulled 5 1/2" casing @ 1264'
Set 20 sx plug 1311-1211'

2692
2934 25 sx plug @ 2934-2692
25 sx plug @ 2974-2934
20' SAND

2974
2994 Squeezed perms w/ 150 sx

perms 3024-3028 6 stimulators/ft.

5 1/2 " casing set at 3045 ' with 100 sx of Neat cement
Total Depth 3045 ' Hole size 6 3/4 " TOC 2690'
50% efficiency