

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

7-9-91

BRUCE KING

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	70127 010
RE: Proposed: MC DHC NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the: Circle Ridge Prod. Inc. Mickey Quee. Operator Lease & Well No. Unit and my recommendations are as follows:	Sand Unit Tr. 24 #1-A S-T-R 16-14-31
Yours very truly, Jerry Sexton Supervisor, District 1	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

PPLICA	TION FOR AUTHORIZATION TO INJECT
I.	Purpose: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Y 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?
٧.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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 lithological 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.
х.	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:
subm	he information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance he 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:
 - 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.

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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.

Circle Rich	ge Arodi	ction In			DATE フー 3	- 9/
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ERATOR C. E.	LARVE	mo B.M.	MUNCY J.	Ź	DATE 7-	3-9/	
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C. E.	LARVE	mo B.N.	Muncy In		DATE 7-3-9/	
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OPERATOR CE. CA	lve and B.N. M	mey In	DATE 7-3-9/
LEASE TRIGG	Federal		1980'FSL mel 660'FEL
		-	7145-R31E Pounty Now Mexico
		Status: produce	
	/3½8 " case Hole size/		50 sx of cement
	_	set at <u>2794</u> ' with <u>/</u> <u>8/4</u> ' Hole size <u>7/</u> 8	100 sx of cemen cemen

OPERATOR CIPCLE Ridge	F Production (8		7-3-91
Deictey Evolut	SAND Unit Te. 10 WEL	L No. LOCATION 1 VAIT M	660 FSL - 660 FWL
		SAC 10-7 Chaves Co	runty New Mexico
	NO FresH NO SURFAKE	Water zones e eun (All Was run) t at with	
		Hole size $\frac{7^{2}}{}$	sx of cement

ERATOR .	Ridge Anoovetin Inc	7-3-9/
	Queen Sono Unit Te 1	WELL NO LOCATION / 1980 FNL - 660 WC
		Sec 15 - 7145 - 1316
		Chaves County New Mexico
	41/87/8"	Status: producer CSG putted when 7" was set g set at' with sx of cemen
	Hole size	
	Total Depth 29	et at <u>2939</u> 'with <u>150</u> sx of cen <u>56</u> 'Hole size <u>9</u> " TOC 2414' fin 1939-1956 SOB efficiency

OPERATOR Lifies Service	D:1 Co			7-3-9/	
LEASE ORICKEY GUREN SAM	0 Unit Te. 49	WELL Na	Uni+ C	660' FNL & 1980' FN	۷
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	OH Comple-	tion 21	Bs7- 2870		

RATOR RIDGE	Production Inc.			DATE 7-3-9/	
SE DRICKEY GUREN SIM	o Unit Ta. 17	WELL Na.	LOCATION UNIT G	1980 FNL +	1980' FEL
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OPERATOR	0.1	7		T .		.,			DATE	3-91	
OPERATOR Circle LEASE Deickey	Ridge	Smo	CTION Clait	Te	18	WELL Na.	LOCATION	T			660'FEL
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Circle	Ridge	Propi	oction	Inc				7- 3-	-91		
LEASE Drickey	J				WELL Na.	LOCATION	Н	1980' FNL		660 FE	-6
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		Ho	le siz	e			_ *************************************				
		T	otal De	epth <u>289</u>	<u>'5</u> ' H	ole size	e <u>8</u>	<u>/25</u> sx <u>3/4</u> " 7 2880 u	σc 2 50%	2340 efficien	ncy

OPERATOR Ridge	Production Inc	DATE	7-3-9/
	Smo Unit Te 12 WELL No.	LOCATION	FNL AND 1980 FEL
		Sec 16 - T145 CHAVES COUNT	5-R31E ty, New Mexico
	Stati	TA'D Sin	ce 9-1-74
	858 " casing set at Hole size 11 "		sx ofcement
	OPEN Hole Comp	letion	
	5½ " casing set at 2 Total Depth 2857' F CH 2823 - 2857	1823' with <u>300</u> Hole size <u>778</u> '	sx of cement: Toc CAIC @ 1767' 50% efficiency

OPERATOR W.S. Guest	and I.J. Wolfson	DATE 7-3-91
	WELL NO LOCATIO	-C 660 FNL + 1980 FWL
	Status:	HAVES COUNTY, NEW MORICO
	P4 A	4-10-74
	SPOT 10 SX @ 500	etace
	Spot 40 5x plug Ad	(2055 95/8 SHOE 3' with 250 sx of cement
		Circulated cmt.
	Spot 35 Sx plus Agress Shot and pulled 7" CS	ss 7" Stuß sg @ 700'
	CIBP @ 2502' W/ 5	SX CMt
	7 " casing set at <u>2815</u> ' Total Depth <u>2834</u> ' Hole si OH 2815 - 2834	with <u>100</u> sx of cemer ze <u>8³/4</u> " TOC 2409' 50% efficiency
	Open Hole completion	