STATE OF NEW MEXICO



BRUCE KING

GOVERNOR

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

5-28-91

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

OIL CONSERVATION DIVISION P. O. BOX 2088

Sud 427

RE: Proposed: MC_____ DHC_____ NSL_____

SANTA FE, NEW MEXICO 87501

Gentlemen:

I have examined the application for the:

Tederal # 4 - 7 Lease & Well No. Un Ul Ces In R Unit Operator

and my recommendations are as follows:

07

Yours very truly, Jerry Sexton

Supervisor, District 1

/ed

. ENERC	AND MINERALS DEPARTMENT POST OFFICE BOX 2010 - 2 ERAD Y/SELVY Revised 7-1-81 STATE UND OFFICE BUILDING - 2 O	
	ON FOR AUTHORIZATION TO INJECT	
I.	urpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes no	
Π.	perator: Dakota Pesources, Inc.	
	ddress: 310 W. Wall Suite 415 Midland, TX 70701	-
	ontact party: Pam Morphew 915 687-2230	-
111.	ell 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.	s this an expansion of an existing project? yes no fyes, give the Division order number authorizing the project	
۷.	ttach a map that identifies all wells and leases within two miles of any proposed njection well with a one-half mile radius circle drawn around each proposed injection ell. This circle identifies the well's area of review.	
* VI.	ttach a tabulation of data on all wells of public record within the area of review wh enetrate the proposed injection zone. Such data shall include a description of each ell's type, construction, date drilled, location, depth, record of completion, and schematic of any plugged well illustrating all plugging detail.	ict
VII.	ttach 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.	ttach appropriate geological data on the injection zone including appropriate lithologetail, geological name, thickness, and depth. Give the geologic name, and depth to ottom of all underground sources of drinking water (aquifers containing waters with otal dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed njection zone as well as any such source known to be immediately underlying the njection interval.	ji d
IX.	escribe the proposed stimulation program, if any.	
* X.	ttach appropriate logging and test data on the well. (If well logs have been filed ith the Division they need not be resubmitted.)	
* XI.	ttach a chemical analysis of fresh water from two or more fresh water wells (if vailable and producing) within one mile of any injection or disposal well showing ocation of wells and dates samples were taken.	
XII.	pplicants for disposal wells must make an affirmative statement that they have xamined available geologic and engineering data and find no evidence of open faults r any other hydrologic connection between the disposal zone and any underground ource of drinking water.	
XIII.	pplicants must complete the "Proof of Notice" section on the reverse side of this for	m.
XIV.	ertification	
	hereby certify that the information submitted with this application is true and corr o the best of my knowledge and belief.	ect

Name:	Par	mor phe	ω	т	itle	Vice	Predident-	Engr.
Signature		Jan m	orpheur		Date:		5/3/91	

* 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:
 - 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.

- R. 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

- (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

Dakota Resources, Inc.

III A.

- Construct of the section of the sectio
- 2. 8 5/8", 24# casing, set at 330', 12 1/4" hole, 200 sx C1 "C", circ. 70 sx. 5 1/2", 14# casing, set at 2947", 7 7/8" hole, 200 sx Lite followed by 200 sx CL "C", circ. 43 sx.
- Plan to run 2 7/8" plastic coated tubing at approx. 27504.
- Plan to run a plastic coated Lok-set packer (5 1/2" x 2 3/8") set at approximately 2750'.

III B.

- The injection interval is the Queen Sand, Caprock Queen Field.
- Injection interval is through perforations at 2864-2876'.
- This well was originally drilled as an oil well.
- 4. None
- 5. None

VII.

- 1. Proposed average rate of injection will be approximately 800 BPD, with a maximum of 1100 BPD.
- 2. Closed system.
- Average injection pressure will be 600 psi with a maximum of 1100 psi.
- 4. Reinjected produced water.

5. N/A

VIII. Previously submitted.

No stimulation program proposed. IX.

X. Previously submitted.

XI. Attached

I, Pam Morphew 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.

tim mapheur

Pam Morphew

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OPERATOR	Dakota			DATE	· · · · · · · · · · · · · · · · · · ·
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STATUS: Pruducer

77777 $8^{5/8}$ " casing set at <u>330</u>' with <u>200</u> sx of <u>C/'C'</u> cement Hole size 12/4 " Cinc. 2.867 I b hairs $\frac{5/2}{4}$ " casing set at <u>2947</u> ' with <u>200</u> sx of <u>Life</u> ceme $\frac{1}{4}$ clowed by 200 sx Cl 'C' Total Depth <u>2947</u> ' Hole size <u>7/8</u> ' circ. 43 sx

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STATUS: Pruducee

7777 77777 $8^{5/8}$ " casing set at <u>3/3</u> ' with <u>145</u> sx of <u>C/'C'</u> cement Hole size 121/4 " Ciac. 2893 11 holes 5/2 " casing set at <u>2965</u> ' with <u>450</u> sx of <u>C1</u>'C' cemer Total Depth <u>2970</u> Hole size <u>278</u>" TOC - 300' based on 75% efficiency



OPERATOR DATE (at a LEASE WELL Na. LOCATION Wokar Tanka sec 27-7135-R31E Unit & M STATUS: Pruducer 77777 $B^{5/8}$ " casing set at <u>328</u> ' with <u>200</u> sx of <u>C/C</u> cement Hole size 12 14 " Circ. 2824 22 holrs 2834 $5\frac{1}{2}$ casing set at 2936 with 450 sx of C/C' cemer Total Depth <u>293</u>, ' Hole size <u>7%</u>" TOC - 300 based on 75% officiency

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STATUS: Pruducer

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Total Depth \ 30x5 \ Hole \ size \ 6'/4 \ '' \ 7ac \ 2317' \ 5bZ \ efficiency

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AFFIDAVIT TO PRINTED COPY OF PUBLICATION

Before me, the undersigned authority, on this day personally appeared <u>Jean M. Pettit</u>, who on his oath stated; I am the <u>Business Manager</u> of the ROSWELL DAILY RECORD, a newspaper published in Chaves County, New Mexico, and know the facts stated in this affidavit. The above printed matter is a true and correct copy of the publication of the citation of which it purports to be a copy, as the same appeared in such newspaper in the respective issues of the <u>26th</u> days of <u>April</u>, 1991; the charge of the proprietor of such newspaper for such publication being 10.31 ____dollars.

Jean M. Lettet

Subscribed and sworn to before me, this $30^{7'}$ day of April, 1991, to certify which, witness my and seal of office.

tary Public, Chaves County, New Mexico my Commission Expires fuly 21, 1994

FOR FLUID INJECTION HINSTONE WELL PERMIT Dakota Resource, Inc., 310 W: Wall, Suite 415, Midland, Texas 79701, can be contacted by calling (915) 687-0501 and asking for Pam Morphew, has applied to the Oil Conservation Division of New Mexico for a permit to inject fluid into a formation which is produce tive of oil or gas. Laiston 9 11 The applicant proposes to inject produced fluid into the Queen Sand in the Wakan Tanka well No. 4. The well is located 2080 FSL and 990' FWL of Section 27, T13S, R31E, Chaves County, New Mexico, Caprock Queen Field. Fluid will be injected through perforations from 2864-2876'. Maximum injection rate will be 1100 BWPD with a maximum injection pressure of 1100 psi. Interested parties having objec-tions or requests for hearing should submit such in writing with in fifteen (15) days of publication, to the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501.

Publish April 26, 1991

RUCRIVED MAY 2 4 1991 HORDE OMICE

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UNITED STATES (See Reverse)	Mail Receipt Coverage Provided International Mail	No Ins	tified Mail Receipt surance Coverage Provided t use for International Mail Reverse)
Sent to <u>L. C. Caudi</u> Street & No. <u>Rt. 1</u> Box C PO., State & ZIP Code <u>Louington</u> N Postage		Circle Ri Street & No. P. U. BUX P.O., State & ZIP Code	
Certified Fee Special Delivery Fee	\$	Certified Fee Special Delivery Fee	
Restricted Delivery Fee Return Receipt Showing WWG to Whom & Date Drivert Return Receipt Scours Invition, Date, & Address of Deliver		Restricted Delivery Fee Return Receipt Showfr to Whom & Date Perio Return Receipt Third Date, & Address an De	001
TOTAL Postage & Fees Postmark or Dale		TOTAL Postage & Fees Postmark or Date	1991 \$
		PS Form	

P 684 814 218

		ail Receipt overage Provided iternational Mail
	Sent to Grover-Mckin,	ney
	Street & No. P. U., BUX 3666	'
	P.O., State & ZIP Code Midland, TX 7	19702
	Postage	\$
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
066	Return Receipt Showing to Whom & Date Delivered	
une 1	Return Receipt Showing to Who Date, & Borress of Derivery	
р, J	TOTAL POLICE APK	\$
PS Form 3800, June 1990	Postmail groute 1991	¥
S For	USPO	
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SENDER: Complete ites 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the reverse from being returned to you. The return receipt fee will provide the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's ac (Extra charge)	side. Failure to do this will prevent this card you the name of the person delivered to and s are available. Consult postmaster for fees
3. Article Addressed to:	4. Article Number
Circle Ridge Production, Inc.	P 684 814 219
P.U. Box 636	Type of Service:
	Registered Insured
Hubbs, NM 88240	Certified 😤 🏪 COD Express Mail 🔲 Return Receipt for Merchandise
	Always obtain signature of addressee
1601	or agent and DATE DELIVERED.
5. Signeture - Andressee	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature – Agent	1
X ,	
7. Date of Delivery	1
PS Forg 3811, Apr. 1989 +U.S.G.P.O. 1989-238-81	5 DOMESTIC RETURN RECEIPT

i 1

Put your address in the "RETURN TO" Space on the reverse from being returned to you. <u>The return receipt fee will provide</u> the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's ac (<i>Extra charge</i>)	you the name of the person delivered to and as are available. Consult postmaster for fees
3. Article Addressed to: Grover-McKinney P. O. Bux 3666 Midland, TX 79702	4. Article Number P 634 814 218 Type of Service: Registered Insured Certified COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature – Addressee 5. Signature – Add	8. Addressee's Address (ONLY if requested and fee paid)

с (OFFSET OPERATORS AND SURFACE OWNERS NOTIFIED BY CERTIFIED MAIL ON APRIL 24, 1991:

- Circle Ridge Production
 P.O. Box 636
 Hobbs, NM 88240
- 2. Grover-Mckinney P.O. Box 3666 Midland, TX 79702
- 3. L.G. Caudill, Sr. Rt. 1, Box 90 Lovington, NM 88260

