

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Dakota Resources, Inc.  
Address: 310 W. Wall Suite 415 Midland, TX 79701  
Contact party: Pam Morphew Phone: 915 687-2230
- 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: Pam morphew Title: Vice President - Engr.  
Signature: Pam Morphew 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:

- (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.

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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.

1. Wakan Tanka #4  
2080' FSL & 990' FWL, Section 27, Unit Letter L  
Township 13 South, Range 31 East, Chaves County,  
New Mexico.
2. 8 5/8", 24# casing, set at 330', 12 1/4" hole,  
200 sx CL "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.
3. Plan to run 2 7/8" plastic coated tubing at approx.  
2750'.
4. Plan to run a plastic coated Lok-set packer  
(5 1/2" x 2 3/8") set at approximately 2750'.

III B.

1. The injection interval is the Queen Sand, Caprock  
Queen Field.
2. Injection interval is through perforations at 2864-  
2876'.
3. 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.
3. Average injection pressure will be 600 psi with a  
maximum of 1100 psi.
4. Reinjecting produced water.

5. N/A

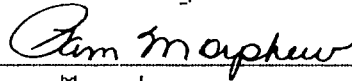
VIII. Previously submitted.

IX. No stimulation program proposed.

X. Previously submitted.

XI. Attached

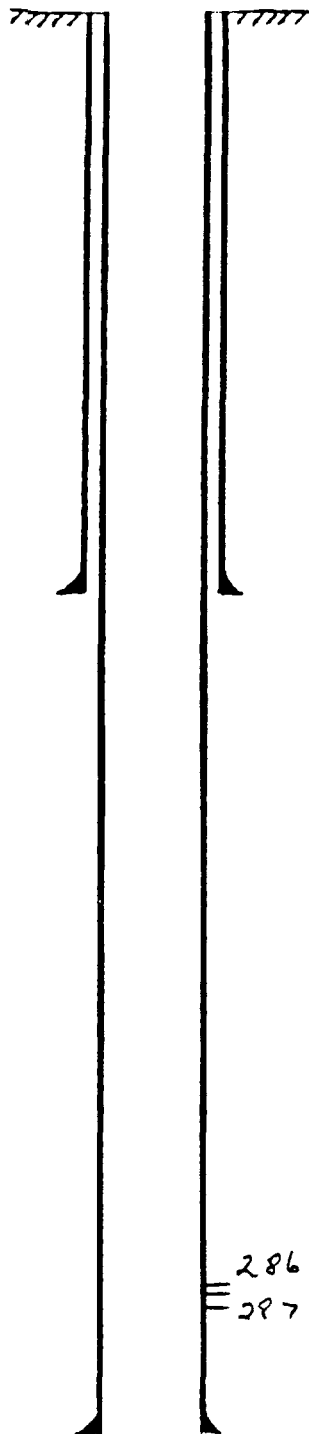
I, Pam Morphew have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

  
\_\_\_\_\_  
Pam Morphew

[illegible]

OPERATOR <u>Dakota</u>	DATE	
LEASE <u>Wakan Tanka</u>	WELL No. <u>4</u>	LOCATION <u>sec 27-T.135-R31E Unit 8 L</u>

STATUS: Producer



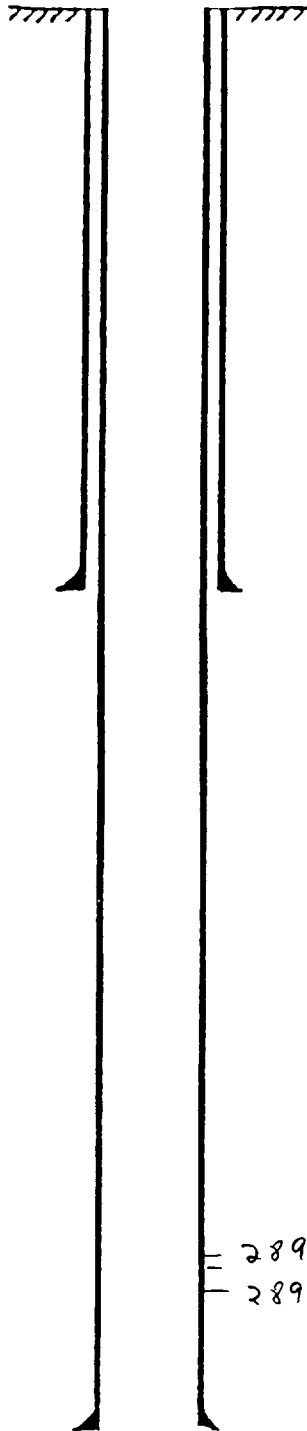
8 5/8 " casing set at 330 ' with 200 sx of C1'C' cemen  
Hole size 12 1/4 " circ.

2867  
2876 26 holes

5 1/2 " casing set at 2947 ' with 200 sx of Lite ceme  
followed by 200 sx C1'C'  
Total Depth 2947 ' Hole size 7 7/8 " circ. 43 sx

OPERATOR <u>Dakota</u>		DATE	
LEASE <u>Wakan Tonka</u>	WELL No. <u>1</u>	LOCATION <u>Sec 27-T135-R31E Unit 0 N</u>	

STATUS: Producer



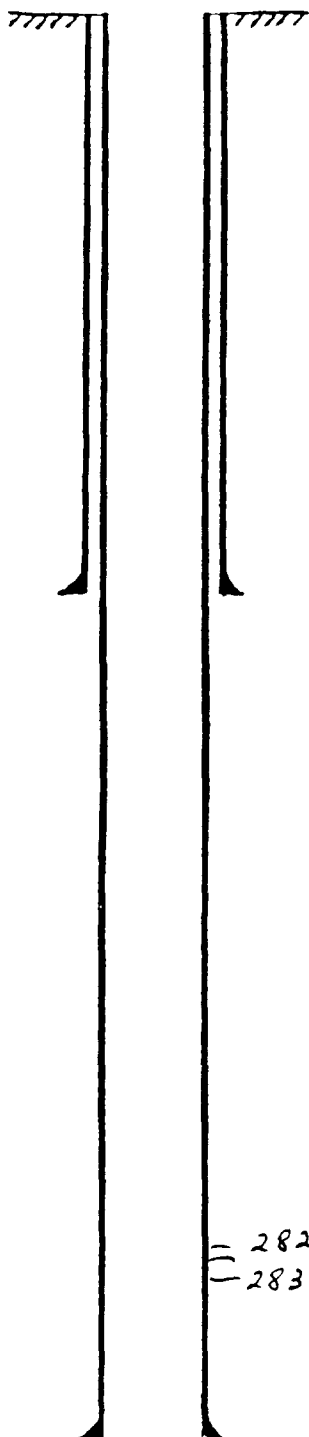
8<sup>5</sup>/<sub>8</sub> " casing set at 313 ' with 145 sx of C1 'C' cement  
Hole size 12<sup>1</sup>/<sub>4</sub> " circ.

= 2893  
= 2898 11 holes

5<sup>1</sup>/<sub>2</sub> " casing set at 2965 ' with 450 sx of C1 'C' cement  
Total Depth 2970 ' Hole size 2<sup>7</sup>/<sub>8</sub> " TOC - 300' based  
on 75% efficiency

OPERATOR <u>Dakota</u>		DATE	
LEASE <u>Wokan Tank</u>	WELL No. <u>2</u>	LOCATION <u>Sec 27-T13S-R31E Unit # M</u>	

STATUS: Producer



8<sup>5</sup>/<sub>8</sub> " casing set at 328 ' with 200 sx of C/C ceme  
Hole size 12<sup>1</sup>/<sub>4</sub> " circ.

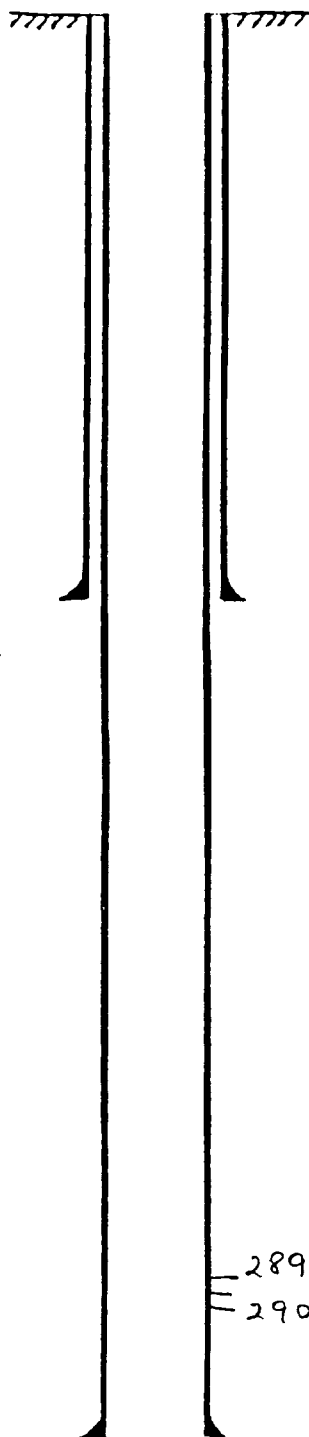
= 2824 22 holes  
- 2834

5<sup>1</sup>/<sub>2</sub> " casing set at 2936 ' with 450 sx of C/C ceme  
Total Depth 2936 ' Hole size 2<sup>7</sup>/<sub>8</sub> " TOC - 300' based  
on 75% efficiency



OPERATOR <u>Dakota</u>		DATE	
LEASE <u>Watson Tank</u>	WELL No. <u>3</u>	LOCATION <u>Sec 27-T135-R31E Unit <del>a</del> K</u>	

STATUS: PRODUCER



8 5/8 " casing set at 323 ' with 200 sx of C1'C cemen  
Hole size 12 1/4 " Circ.

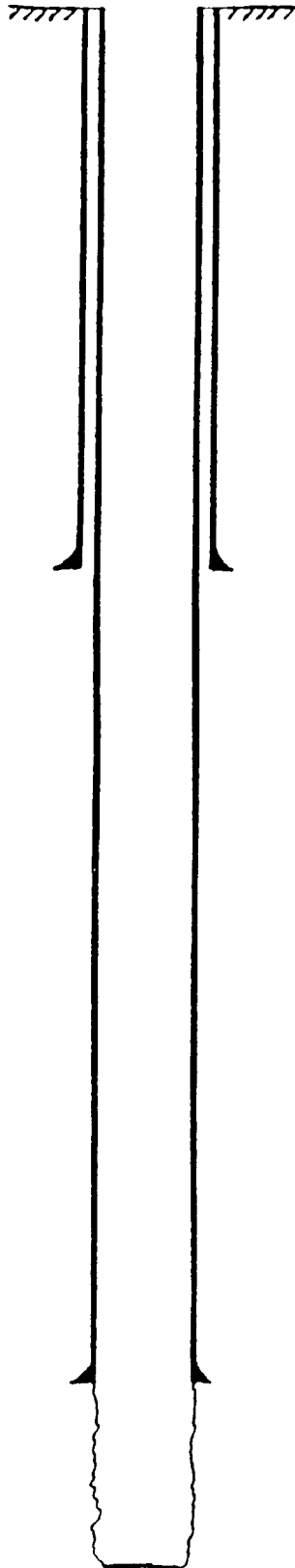
= 2896  
= 2909 12 holes

5 1/2 " casing set at 2982 ' with 200 sx of Lite cemen  
followed by 200 sx C1'C  
Total Depth 2985 ' Hole size 7 7/8 " TOC - 850' based  
on 75% efficiency

OPERATOR Circle Ridge Production Inc.		DATE 7-11-90	
LEASE Rock Queen Unit	WELL No. 15	LOCATION sec 27-T135-R31E unit 0	

STATUS: Producer

OH 3019-3029'



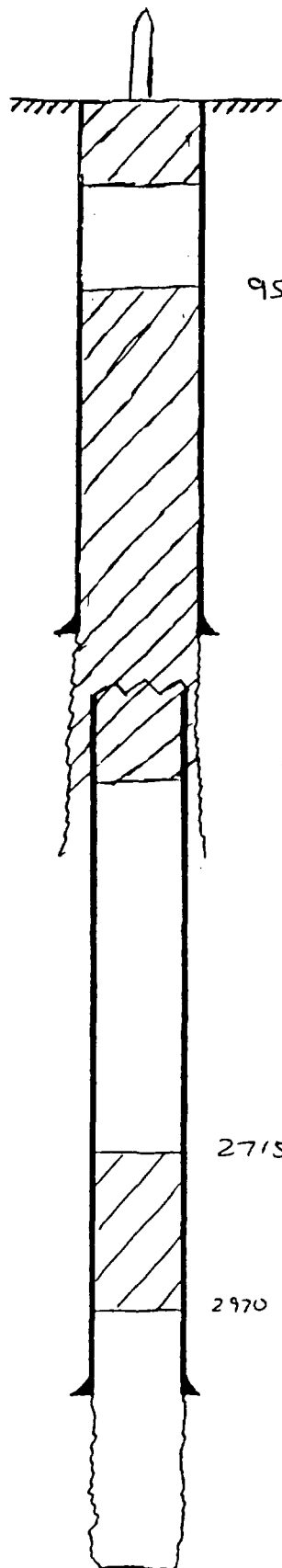
8 5/8 " casing set at 292 ' with 200 sx of Neat cement  
Hole size 12 1/4 " circ.

5 1/2 " casing set at 3019 ' with 100 sx of NEAT cemer  
Total Depth 3029 ' Hole size 8 " TOC 2684'  
50% efficiency

OH 3019-3029'

OPERATOR GREAT WESTERN DRILLING CO.		DATE 7-11-90	
LEASE ROCK QUEEN UNIT	WELL No. 10	LOCATION SEC 27 T13S R31E unit J	

STATUS: P+A 7-17-80



10 SX plug @ surface

95'

SHOT AND pulled 5 1/2" casing @ 306' set 75 SX  
plug TOC 95' tagged

8 5/8" casing set at 282' with 200 SX of NEAT cement  
Hole size 12 1/4" Circ. Cmt.

Casing Leak @ 518-550' Cmta w/ 885 SXS Cmt.  
Drilled Heng Cmt from 500' to 575' test to  
1000 # OK

2715'

2970'

Set 25 SX plug @ 2970-2715'

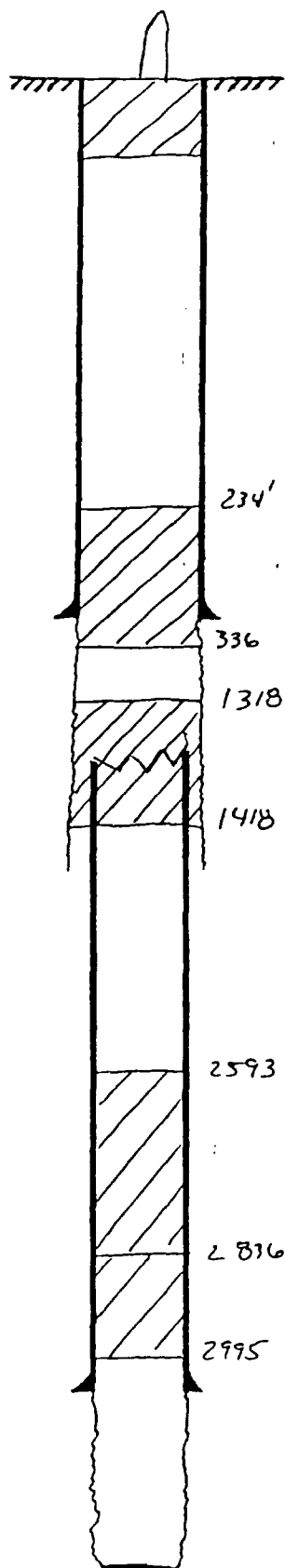
5 1/2" casing set at 3013' with 100 SX of NEAT cement  
Total Depth 3028' Hole size 6 3/4" TOC 2658'  
50% efficiency

OH 3013-3028

OPERATOR	GREAT WESTERN DRILLING CO.		DATE	7-11-90
LEASE	ROCK QUEEN UNIT	WELL No.	6	
		LOCATION	SEC 27 T13S-R31E unit F	

STATUS: P+A

3-10-76



10 SXS @ surface

234' 30 SXS @ 336-234'

$8\frac{5}{8}$ " casing set at 296' with 200 sx of newt cement

336 Hole size 12" circ. cmt.

1318'

25 SXS @ 1418 to 1318'

1418

$5\frac{1}{2}$ " casing snut and pulled @ 1368'

2593

25 SXS plug @ 2836 to 2593'

25 sx plug @ 2995 to 2836

2816

2995

$5\frac{1}{2}$ " casing set at 3027' with 200 sx of newt cement

Total Depth 3045' Hole size  $6\frac{1}{4}$ " Toc 2317'

50% efficiency

OH 3027 - 3045

AFFIDAVIT TO PRINTED COPY OF PUBLICATION

Before me, the undersigned authority, on this day personally appeared Jean M. Pettit, who on his oath stated; I am the Business Manager 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 26th days of April, 1991; the charge of the proprietor of such newspaper for such publication being 10.31 dollars.

Jean M. Pettit

Subscribed and sworn to before me, this 30<sup>th</sup> day of April, 1991, to certify which, witness my and seal of office.

Marilyn D. Shipper  
Notary Public, Chaves County, New Mexico  
my Commission Expires July 21, 1994

Published April 26, 1991

NOTICE OF APPLICATION  
FOR FLUID INJECTION  
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 Morpheu, has applied to the Oil Conservation Division of New Mexico for a permit to inject fluid into a formation which is productive of oil or gas.

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 objections or requests for hearing should submit such in writing within fifteen (15) days of publication, to the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501.

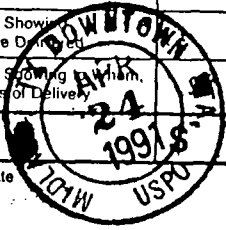
P 684 814 217

**Certified Mail Receipt**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to	
L. G. Caudill, Sr.	
Street & No.	
Rt. 1, Box 90	
P.O., State & ZIP Code	
Lovington, NM 88260	
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	
Postmark or Date	

PS Form 3800, June 1990



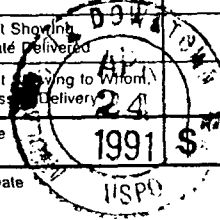
P 684 814 219

**Certified Mail Receipt**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to	
Circle Ridge Production	
Street & No.	
P.O. Box 636	
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	
Postmark or Date	

PS Form 3800, June 1990



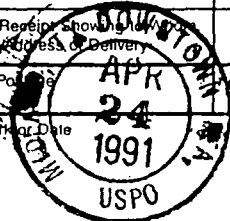
P 684 814 218

**Certified Mail Receipt**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

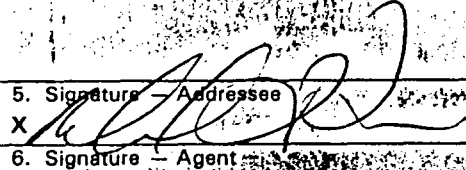
Sent to	
Grover-McKinney	
Street & No.	
P.O. Box 3666	
P.O., State & ZIP Code	
Midland, TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	
Postmark or Date	

PS Form 3800, June 1990



● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

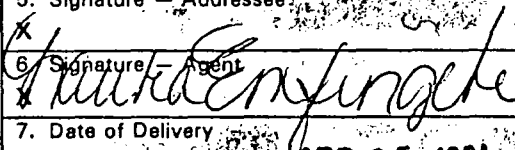
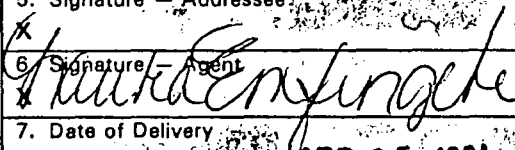
1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Circle Ridge Production, Inc. P.O. Box 636 Hobbs, Nm 88240	4. Article Number P 684 814 219
5. Signature — Addressee X 	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature — Agent X	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
7. Date of Delivery 4/29/91	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Grover-McKinney P.O. Box 3666 Midland, TX 79702	4. Article Number P 684 814 218
5. Signature — Addressee X 	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature — Agent X 	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
7. Date of Delivery APR 25 1991	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

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

1. 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





STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

RECEIVED

OIL CONSERVATION DIVISION

'91 MAY 30 AM 9 17 HOBBS DISTRICT OFFICE

5-28-91

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

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD ☒ \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Nakota Resources Inc Wakanjanka Federal #4-L  
Operator Lease & Well No. Unit S-T-R 27-13 31

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/ed