

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

11071-11141  
22/14 PSE

[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply**

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
[B] ☐ Offset Operators, Leaseholders or Surface Owner  
[C] ☐ Application is One Which Requires Published Legal Notice  
[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note:** Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

**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. (I)  
ADDRESS: \_\_\_\_\_ 911 N. Midkiff, Midland, TX 79701  
CONTACT PARTY: \_\_\_\_\_ Pam Morphew
- 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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 \_\_\_\_\_  
SIGNATURE: Pam Morphew \_\_\_\_\_ DATE: \_\_\_\_\_ 9/16/05 \_\_\_\_\_  
E-MAIL ADDRESS: \_\_\_\_\_ pamm@dakota.wtxcoxmail.com \_\_\_\_\_
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances 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 the 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.

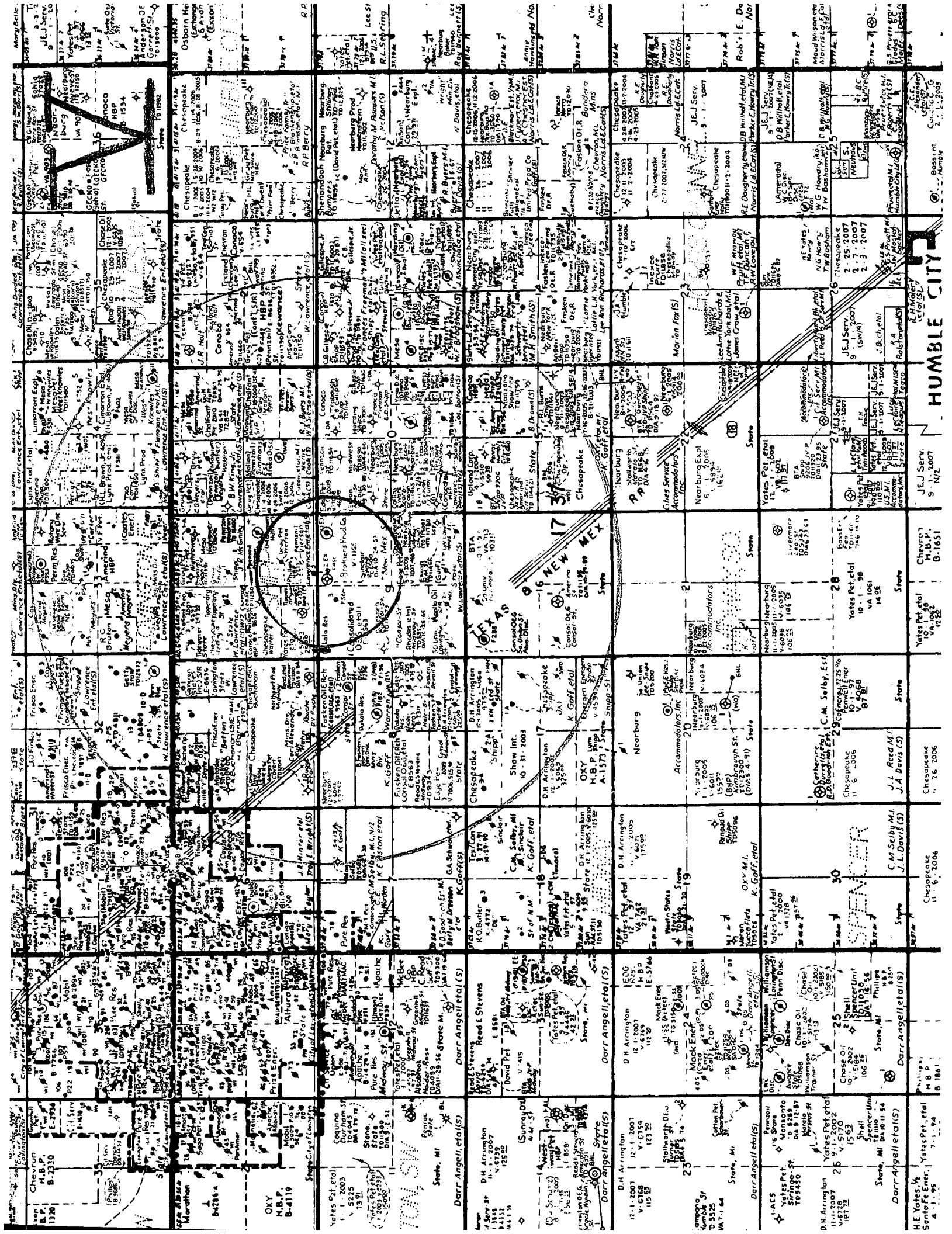
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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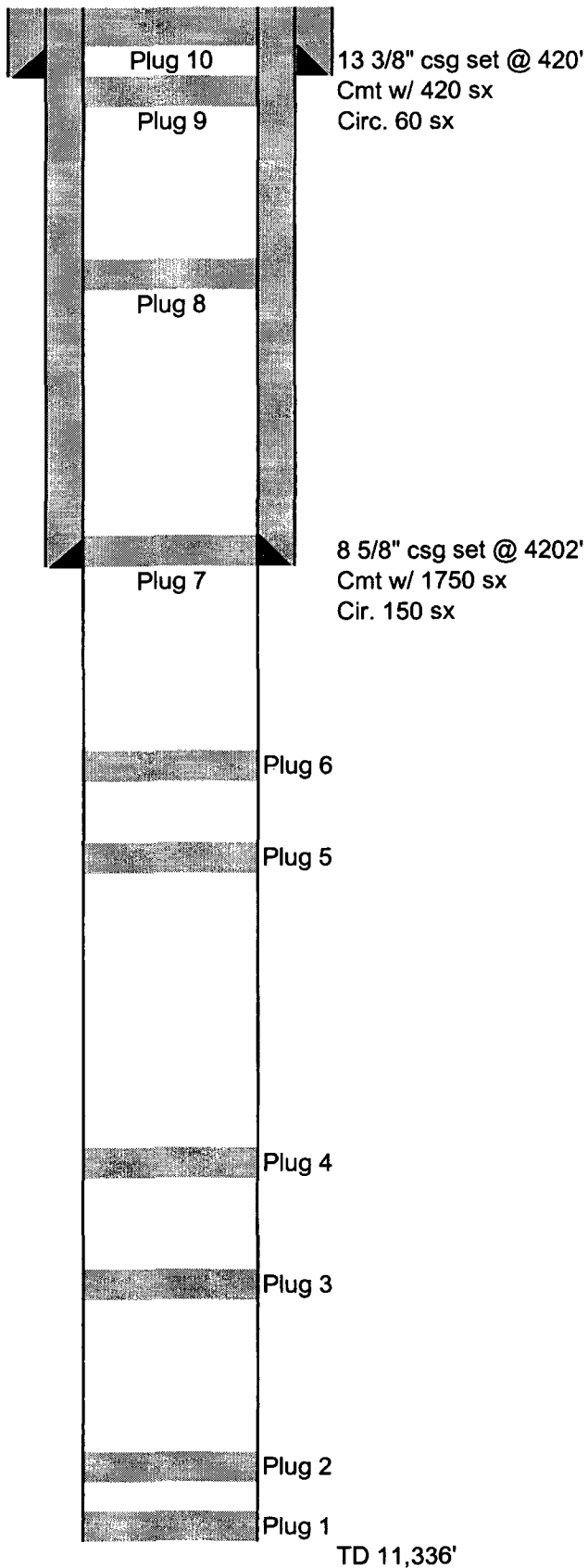
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



## Requirement VI.

<u>Well Name</u>	<u>Location</u>	<u>Unit Letter</u>	<u>Well Type</u>	<u>Spud Date</u>	<u>Depth</u>	<u>PBTD</u>	<u>Completion</u>	<u>Status</u>	<u>Last Known Operator</u>
Jons 4 State	Sec 4 T17S, R37E 560 FSL & 1650 FWL	N	N/A	9/22/84	11,336	N/A	N/A-Dry Hole	P&A	Tipperary O&G
Viersen #2	Sec 4 T17S, R37E 1300 FSL & 1650 FEL	O	Oil	10/23/1985	11,281	11,232	Perfs 11,059-11,123 Acid w/ 5000 gals	P&A	Gruy Petroleum Mgmt
Viersen #3	Sec 4 T17S, R37E 150 FSL & 2080 FWL	O	Oil	1/2/1987	11,240	11,239	Perfs 11,067-11,090 Acid w/ 8500 gals	P&A	Pennzoil Expl & Prod.
Viersen #1	Sec 4 T17S, R37E 2130 FSL & 660 FEL	I	Oil	7/1/1985	11,390	11,346	Perfs 11,138-11,255 Acid w/ 3000 gals	P&A	Pennzoil Expl & Prod.
Lea "YL" State #1	Sec 4 T17S, R37E 2086 FSL & 2086 FWL	K	N/A	3/4/1986	11,250	N/A	N/A-Dry Hole	P&A	Chevron USA
Walter 4 #1	Sec 4 T17S, R37E 2260 FSL & 718 FWL	L	Oil/Gas	9/8/2002	11,350	Not Avail.	Perfs 10,998-11,036 Treatment N/A	Prod.	Chesapeake Operating
New Mexico EX State #2 **	Sec 9 T17S, R37E 330 FNL & 1980 FEL	B	Oil/Gas	12/21/1985	11,300	11,238	Perfs 11,071-11,141 Natural Completion	Prod.	Dakota Resources, Inc.
New Mexico EX State #1	Sec 9 T17S, R37E 330 FNL & 660 FEL	A	Oil	3/20/1986	11,412	10,410	Perfs 10,352-10,376 Wolfcamp	P&A	Exxon Corp.
Consolidated State #1	Sec 9 T17S, R37E 2310 FSL & 330 FWL	E	N/A	1/10/1981	11,073	N/A	N/A-Dry Hole	P&A	Fasken Oil & Ranch

\*\* Proposed Disposal Well

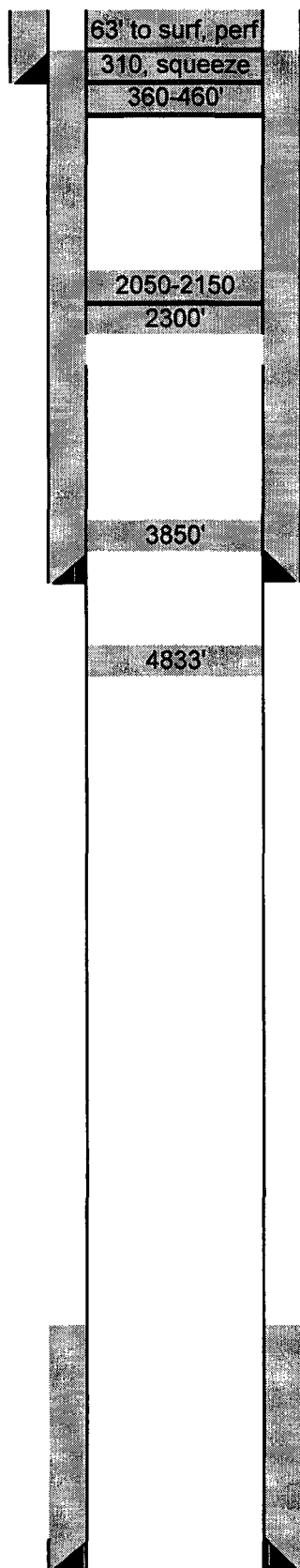


## Jons 4 State

Sec. 4 (N), T-17-S, R-37-E  
Lea County, New Mexico  
560 FSL & 1650 FWL

### Plugging Detail

Plug 1	35 sx @ 11,300'
Plug 2	35 sx @ 10,985
Plug 3	35 sx @ 9,342
Plug 4	35 sx @ 8,505
Plug 5	35 sx @ 6,335
Plug 6	35 sx @ 5,558
Plug 7	35 sx @ 4150-4250
Plug 8	35 sx @ 2000-2100
Plug 9	35 sx @ 350-450
Plug 10	10 sx @ surface



13 3/8" csg set @ 406'  
Cmt w/ 420 sx  
Circ. 25 sx

Cut off and fish csg  
@ 2340'

8 5/8" csg set @ 4200'  
Cmt w/ 1340 sx  
TOC 310'

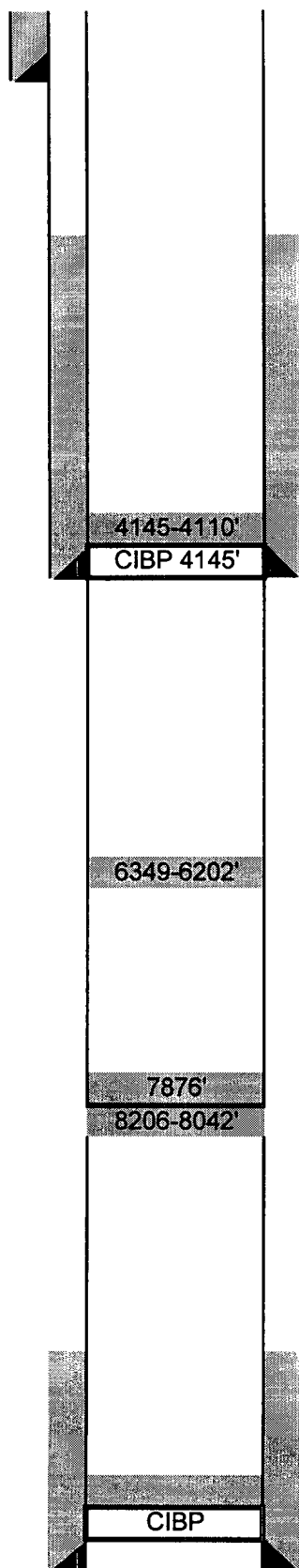
5 1/2" csg set @ 11,280'  
Cmt w/ 400 sx  
TOC 9612' (Cement Bond Log)  
TD 11,281

## Viersen #2

Sec. 4 (O), T-17-S, R-37-E  
Lea County, New Mexico  
1300 FSL & 1650 FEL

### Plugging Detail

Spot 50 sx @ 5068. No Tag.  
Re-spot 50 sx & tag @ 4833'  
Perf @4200. Squeez 50 sx & tag  
@ 3850.  
Spot 50 sx @ 2500. Tag @ 2300'  
Spot 35 sx @ 2150-2050  
Spot 35 sx @ 460-360  
Perf @ 310, Squeeze 70 sx  
Spot 20 sx @ 63' to surface



13 3/8" csg set @ 405'  
Cmt w/ 630 sx  
Circ. 180 sx

8 5/8" csg set @ 4189'  
Cmt w/ 1450 sx  
TOC 1600'

Cut and pulled csg @ 7992'

5 1/2" csg set @ 11,239'  
Cmt w/ 350 sx  
Est. TOC 9900'  
TD 11,240'

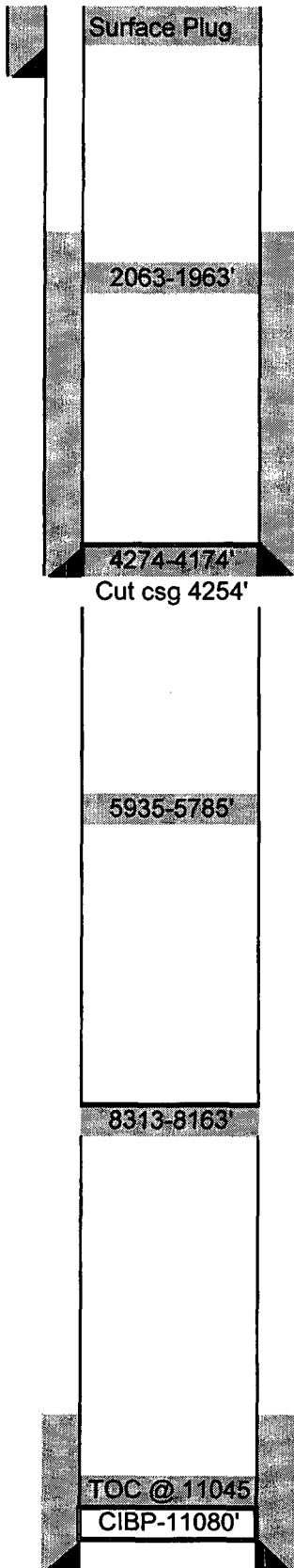
### Viersen #3

Sec. 4 (O), T-17-S, R-37-E  
Lea County, New Mexico  
150 FSL & 2080 FWL

#### Plugging Detail

5 1/2" CIBP @ 10,992', Spot 35' cmt  
Spot 25 sx @ 8206-8042  
Cut csg @ 7992'  
Set 50 sx 8042-7876  
Set 50 sx 6349-6202  
Set several plugs, but never tagged  
Mixed LCM, no change  
Set 8 5/8" CIBP @ 4145  
Set 10 sx 4145-4110  
Rest of report missing





13 3/8" csg set @ 400'  
Cmt w/ 400 sx  
Circ. 85 sx

8 5/8" csg set @ 4200'  
Cmt w/ 1950 sx  
Circ 200 sx

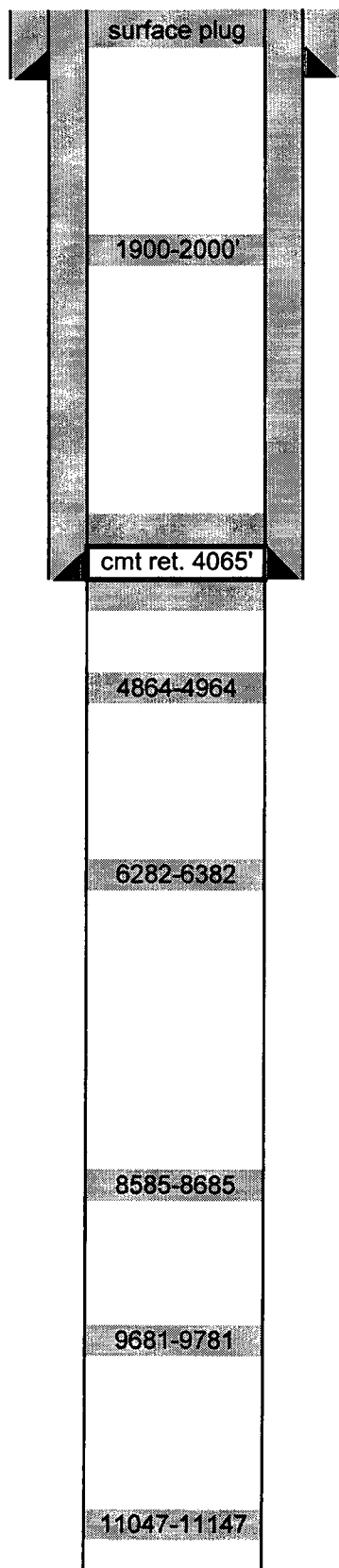
5 1/2" csg set @ 11,800'  
Cmt w/ 320 sx  
Est. TOC 10,300'  
TD 11,390'

## Viersen #1

Sec. 4 (I), T-17-S, R-37-E  
Lea County, New Mexico  
2130 FSL & 660 FEL

### Plugging Detail

Set CIPB @ 11,080' w/ 35' cmt  
TOC @ 11,045'  
Spot 25 sx @ 8313-8163  
Spot 25 sx @ 5935-5785  
Cut 5 1/2" csg @ 4254'  
Pump 50 sx, plug @ 4254'-Did not tag  
Pump LCM & 50 sx, TOC @ 4274'  
Plug 20'  
Pump 50 sx @ 4274-4174  
Spot 35 sx @ 2063-1963  
Pump 10' Surface Plug



13 3/8" csg set @ 424'  
Cmt w/ 475 sx  
Circ.160 sx

8 5/8" csg set @ 4096'  
Cmt w/ 1050 sx  
Circ 130 sx

TD 11,250'

**Lea "YL" State #1**  
**Sec. 4 (K), T-17-S, R-37-E**  
**Lea County, New Mexico**  
**2086 FSL & 2086 FWL**

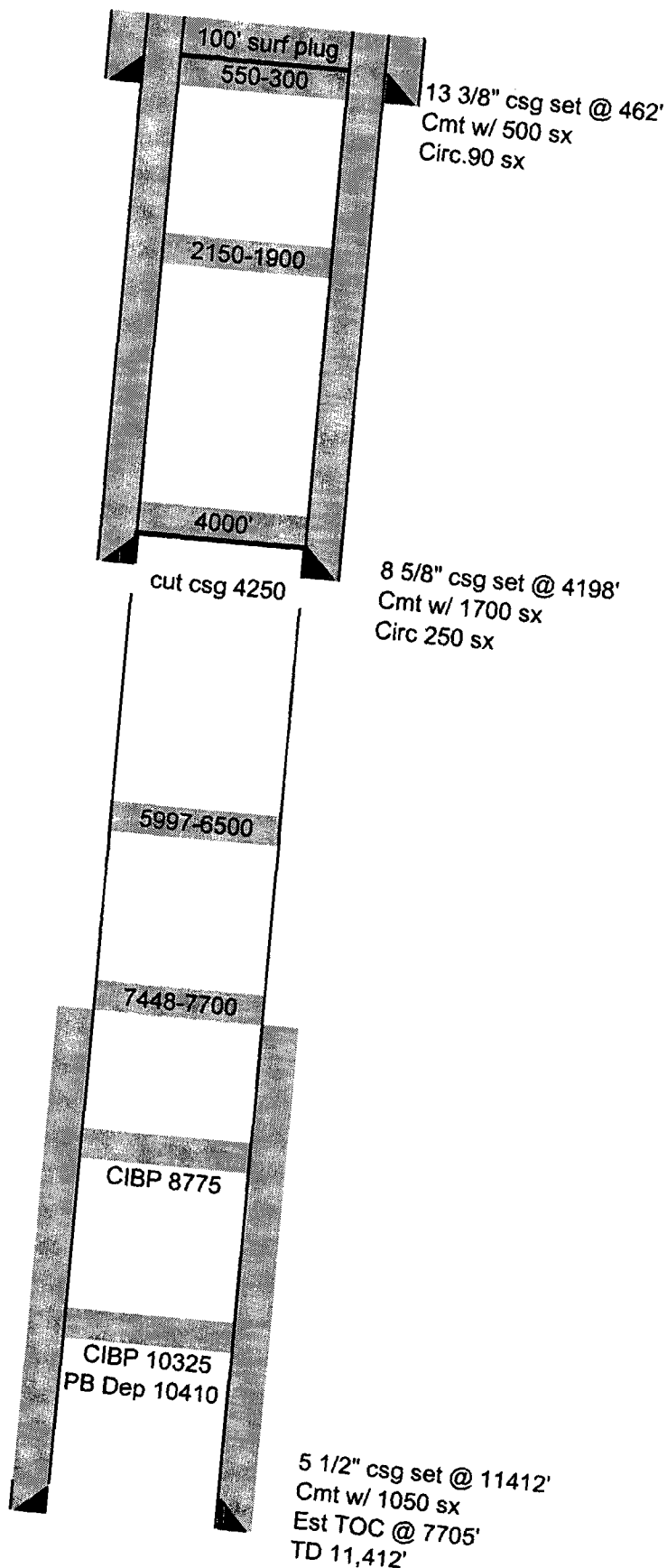
#### Plugging Detail

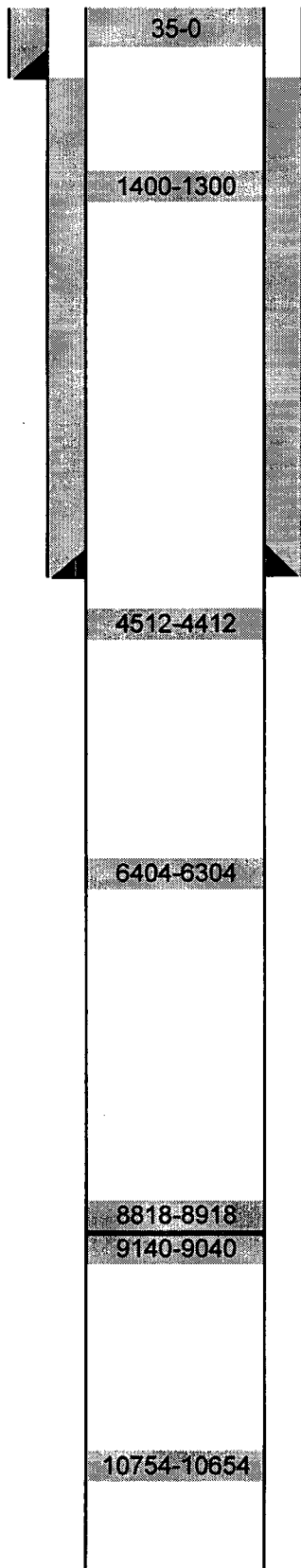
50 sx @ 11,047-11,147  
50 sx @ 9681-9781  
70 sx @ 8585-8685  
50 sx @ 6282-6382  
70 sx @ 4864-4964  
Set Cmt Retain @ 4065  
pumped 75 sx below and 15 sx on top  
50 sx @ 1900-2000  
10 sx @ surface

**New Mexico State EX #1**  
**Sec. 9 (A), T-17-S, R-37-E**  
**Lea County, New Mexico**  
**330 FNL & 660 FEL**

**Plugging Detail**

PB to 10, 410 and completed in Wolfcamp  
 Set CIBP @ 10325', dump 35' cement  
 Attempted Abo completion 8810-8860  
 Set CIBP @ 8775', cap w/ 35' cement  
 Cut off 5 1/2" csg @ 4250'  
 50 sx @ 7700-7448  
 50 sx @ 6500-5997  
 50 sx @ 4250  
 Reset plug from 4240 to 4000; w/ 56 sx  
 50 sx @ 2150-1900  
 50 sx @ 550-300  
 10 sx 100' to surface





13 3/8" csg set @ 398'  
Cmt w/ 350 sx  
Circ.60 sx

8 5/8" csg set @ 4462'  
Cmt w/ 1600 sx  
Est TOC @ 550' (Temp Surv)

**Consolidated State No. 1**  
**Sec. 9 (E), T-17-S, R-37-E**  
**Lea County, New Mexico**  
**2310 FSL & 330 FWL**

#### Plugging Detail

35 sx @ 10754-10654  
40 sx @ 9140-9040  
40 sx @ 8918-8818  
50 sx @ 6404-6304  
40 sx @ 4512-4412  
30 sx @ 1400-1300  
10 sx @ 35-0

TD 11,073'

# VIII : X 11

## **DAKOTA RESOURCES INCORPORATED**

911 North Midkiff  
Midland, Texas 79701  
(432) 697-3420

1406Camp Craft Rd, Ste 111  
Austin, Texas 78746  
(512) 306-8878

### Geologic Data FORM C-108 Attachment

#### Proposed SWD

Operator: Dakota Resources, Inc.

Well Name: State EX #2

Location: Section 9, T-17-S, R-37-E, Lea County, NM

API #: 003-025-29440

Proposed Injection Zone: 11,071-11,141 (existing perforations)

Formation: Strawn

Lithology: Limestone

Formation Thickness: 174'

Aquifers: Ogallala

Depth of Base Ogallala: 300'

Surface Casing: 13 3/8" at 444'

Examination of available geologic and engineering data indicate that there is no evidence of open faults that might allow for communication between the disposal zone and any aquifers at or near this wellbore, nor is any faulting or hydrologic connection between the proposed disposal zone and any aquifers recognized in the area.

Prepared 8/16/2005

Ron Pieper

Geologist

Dakota Resources, Inc.

**XI****Endura Products Corporation**

P.O. Box 3394, Midland, Texas 79702

Phone (432) 684-4233 Fax (432) 684-4277

**WATER ANALYSIS**

Date	9/2/2005	Endura Rep Mitch Sawyer	Code	101022732
Sampling Point/Date	Wellhead 9/1/2005		State	New Mexico
Company	Dakota Resources		County	Lea
Formation		Lease Doyce Cook Water Well	Well	

**DISSOLVED SOLIDS****CATIONS**

	mg/l	me/l
Sodium, Na <sup>+</sup> (Calc.)	138	6
Total Hardness as Ca <sup>++</sup>	96	0
Calcium Ca <sup>++</sup>	74	4
Magnesium, Mg <sup>+</sup>	13	1
Barium, Ba <sup>++</sup>	0	0
Iron (Total) Fe <sup>+++*</sup>	1	0

**ANIONS**

Chlorides, Cl <sup>-</sup>	100	3
Sulfate, SO <sub>4</sub> <sup>-</sup>	175	4
Carbonate, CO <sub>3</sub> <sup>-</sup>	0	0
Bicarbonates, HCO <sub>3</sub> <sup>-</sup>	244	4
Sulfide, S <sup>-*</sup>	0	0
Total Dissolved Solid	745	

**OTHER PROPERTIES**

pH*	7.673
Specific Gravity, 60/60 F.	1.000
Turbidity	13

**SCALING INDICIES**

<u>TEMP, F</u>	<u>CA CO<sub>3</sub></u>	<u>CASO<sub>4</sub>*2H<sub>2</sub>O</u>	<u>CA SO<sub>4</sub></u>	<u>BA SO<sub>4</sub></u>
80	0.3046	-1.4812	-1.6229	-27.6461
120	0.5307	-1.4974	-1.4587	-27.8524
160	0.7591	-1.4557	-1.2443	-27.9611

**PERFORATIONS**

**XI****Endura Products Corporation**

P.O. Box 3394, Midland, Texas 79702

Phone (432) 684-4233 Fax (432) 684-4277

**WATER ANALYSIS**Date **9/2/2005** Endura Rep **Mitch Sawyer**Code **101022733**Sampling Point/Date **Wellhead 9/1/2005**State **New Mexico**Company **Dakota Resources**County **Lea**

Formation

Lease **Parker Tools Water Well**

Well

**DISSOLVED SOLIDS****CATIONS**

	mg/l	me/l
Sodium, Na+ (Calc.)	161	7
Total Hardness as Ca++	202	0
Calcium Ca++	195	10
Magnesium, Mg+	4	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	1	0

**ANIONS**

Chlorides, Cl-	260	7
Sulfate, SO4-	200	4
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	390	6
Sulfide, S-*	0	0
Total Dissolved Solid	1,211	

**OTHER PROPERTIES**

pH*	7.255
Specific Gravity, 60/60 F.	1.000
Turbidity	14

**SCALING INDICIES**

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4379	-1.1052	-1.2473	-27.7725
120	0.6698	-1.1219	-1.0835	-27.9801
160	0.9146	-1.0825	-0.8714	-28.0929

**PERFORATIONS**

## **VII.**

- 1. Proposed Average Daily Rate to be injected: 3000 BWPD  
Proposed Maximum Daily Rate to be injected: 4000 BWPD**
- 2. This will be a closed system**
- 3. Average injection pressure 2000 psi with maximum  
Maximum injection pressure of 4000 psi**
- 4. Source of injection fluid will be produced water.**

## **IX.**

### **Stimulation Program:**

**1500 gal 15% NeFe Acid through perforations at 11,071 to 11,141'**



## INJECTION WELL DATA SHEET

OPERATOR:

Dakota Resources, Inc.

WELL NAME &amp; NUMBER:

New Mexico EX State #2

WELL LOCATION: 330 FNL & 1980 FEL  
FOOTAGE LOCATION

UNIT LETTER B SECTION 9 TOWNSHIP 17S RANGE 37E

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"  
Cemented with: 500 sx. or ft<sup>3</sup>  
Top of Cement: surface Method Determined: circulated

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"  
Cemented with: 1500 sx. or ft<sup>3</sup>  
Top of Cement: surface Method Determined: circulated

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"  
Cemented with: 2082 sx. or ft<sup>3</sup>  
Top of Cement: 3700' Method Determined: calculated

Total Depth:

11,300

Injection Interval

11,071 feet to 11,141

*See Attached*

(Perforated) or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8"      Lining Material: Rice Duoline

Type of Packer: Baker Model "R"

Packer Setting Depth: 10,971

Other Type of Tubing/Casing Seal (if applicable): N/A

**Additional Data**

1. Is this a new well drilled for injection?      Yes    xx    No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

**Oil & Gas Exploration and Production**

2. Name of the Injection Formation:      Strawn

3. Name of Field or Pool (if applicable):      Shipp

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. \_\_\_\_\_

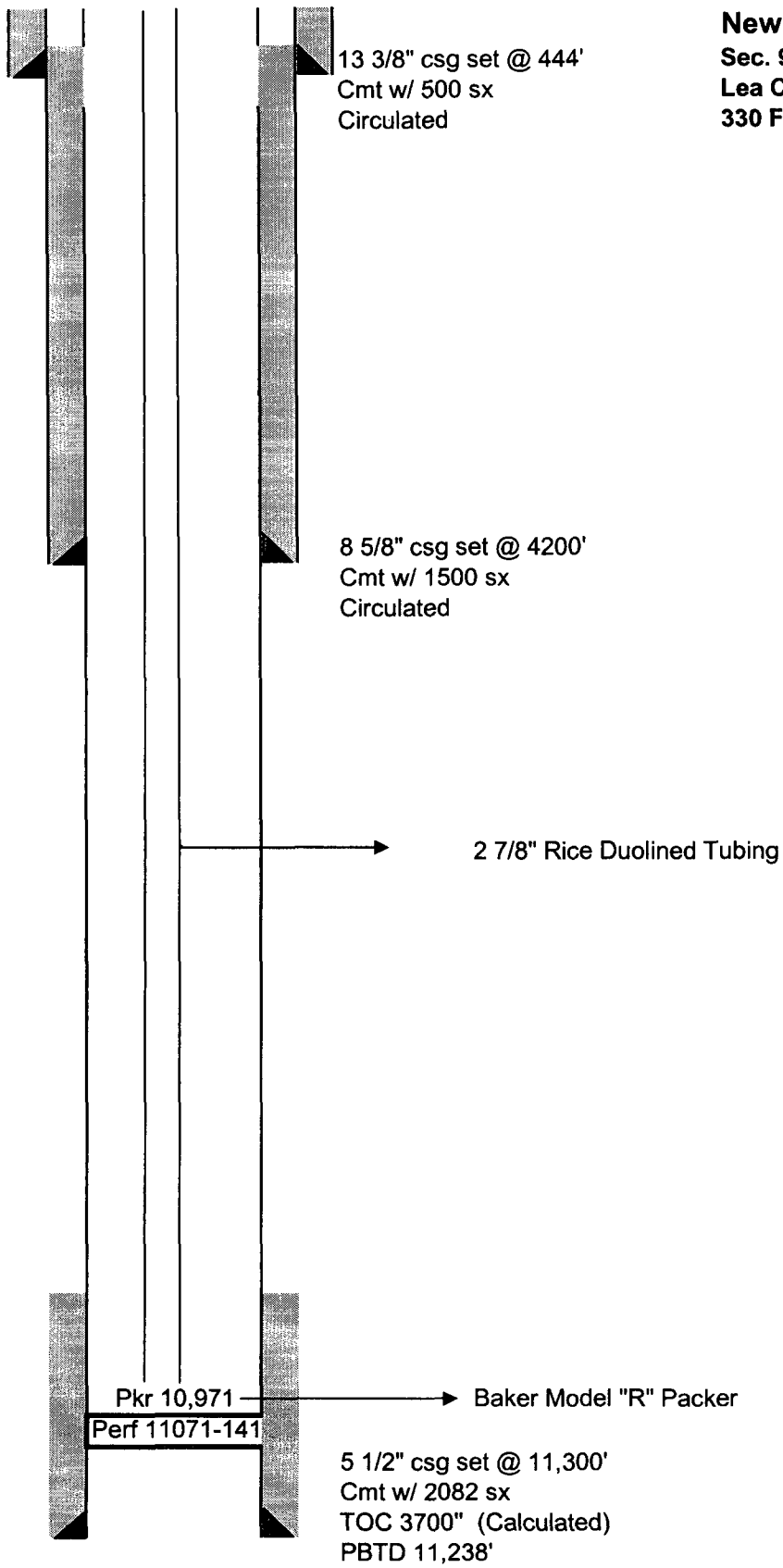
None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

San Andres (4870'), Glorietta (6371'), Clearfork (7144'), Abo (8609'), Wolfcamp (9455'),

Penn (10515'), Strawn (11038'), and Atoka (11208')

**New Mexico EX State #2**  
**Sec. 9 (B), T-17-S, R-37-E**  
**Lea County, New Mexico**  
**330 FNL & 1980 FEL**



State of New Mexico,  
County of Lea.

## Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of \_\_\_\_\_ 1 \_\_\_\_\_

\_\_\_\_\_ weeks.

Beginning with the issue dated

August 18 2005

and ending with the issue dated

August 18 2005

Kathi Barden

Publisher

Sworn and subscribed to before

me this 12th day of

September 11 2005

Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



**OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO**

My Commission Expires: \_\_\_\_\_

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

## LEGAL NOTICE

**August 18, 2005**

# NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Dakota Resources, Inc., 011 N. Midkiff, Midland, TX 79701, can be contacted by calling (432) 697-3420 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 productive of oil or gas.

The applicant proposes to inject produced fluid into the Strawn formation in the New Mexico EX state No. 1. The well is located 330' FNL and 1980' FEL of Section 9, T-17-S, R-37-E, Lea County, New Mexico, Shipp Strawn Field. Fluid will be injected through perforations from 11, 071-11,141'. Maximum injection rate will be 3,000 BWPD with a maximum injection pressure of 4,000 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.  
#21729

Required  
Reprint

02106322000      02578364

DAKOTA RESOURCES  
911 N. MIDKIFF  
MIDLAND, TX 79701

# Notification List

Yates Petroleum Corporation  
105 S. 4<sup>th</sup>  
Artesia, NM 88210

Fasken Oil & Ranch Ltd.  
303 W. Wall Ave., Ste. 1800  
Midland, TX 79701-5116

Gruy Petroleum Management Co.  
3300 N. "A", Bldg 8, Ste. 120  
Midland, TX 79705

ExxonMobil  
800 Bell Street  
Houston, TX 77002

Chesapeake Operating Inc.  
P.O. Box 18496  
Oklahoma City, OK 73154

*Critical  
NOTIFICATION*

Pennzoil Expl & Prod./  
Shell Oil Company  
910 Louisiana Street  
Houston, TX 77002

Tipperary Oil Corporation  
P.O. Box 3179  
Midland, TX 79702

Chevron USA  
P.O. Box 200027  
Houston, TX 77216

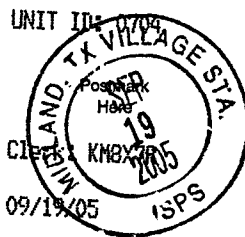
State of New Mexico  
Commission of Public Lands  
P.O. Box 2308  
Santa Fe, NM 87504

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Total Postage & Fees	\$ 4.65



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Street, Apt. No.,  
or PO Box No. 800 Bell Street  
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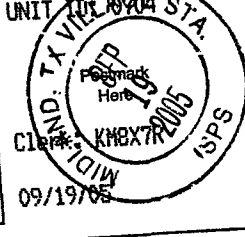
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PS Form 3800, June 2002

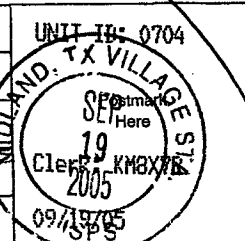
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Sent To Chesapeake Operating, Inc.  
Street, Apt. No.,  
or PO Box No. P.O. Box 18496  
City, State, ZIP+4<sup>®</sup> Oklaoma City, OK 73154

PS Form 3800, June 2002

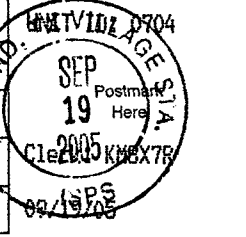
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SANTA FE, NM 87504

Postage	\$ 0.60
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.65



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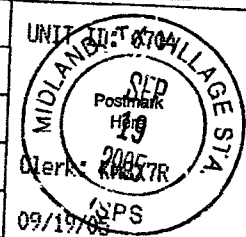
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MIDLAND, TX 79702

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Total Postage & Fees	\$ 4.65



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Street, Apt. No.,  
or PO Box No. P.O. Box 3179  
City, State, ZIP+4<sup>®</sup> Midland, TX 79702

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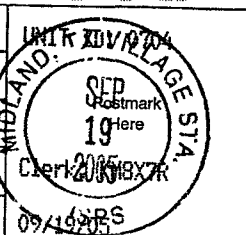
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HOUSTON, TX 77002

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Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.65



Sent To Pennzoil Exp & Prod  
Street, Apt. No.,  
or PO Box No. 910 Louisiana  
City, State, ZIP+4<sup>®</sup> Houston, TX 77002

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7002 3150 0005 0542 2927

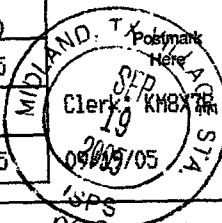
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Sent To Gruy Petroleum Management  
 Street, Apt. No.,  
 or PO Box No. 3300 N 'A' Bldg 2, Suite 120  
 City, State, ZIP+4 Midland, TX 79705

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7002 3150 0005 0542 2934

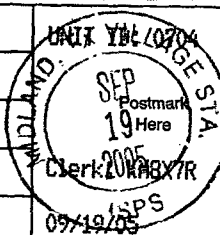
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Return Receipt Fee (Endorsement Required)	1.75	
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Sent To Fasken Oil & Ranch Ltd.  
 Street, Apt. No.,  
 or PO Box No. 303 W Wall, Suite 1800  
 City, State, ZIP+4 Midland, TX 79701-5116

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7002 3150 0005 0542 2941

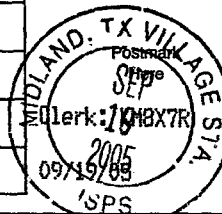
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Return Receipt Fee (Endorsement Required)	1.75	
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Total Postage & Fees	\$ 4.65	



Sent To Yates Petroleum Corporation  
 Street, Apt. No.,  
 or PO Box No. 105 S. 4th  
 City, State, ZIP+4 Artesia, NM 88210

PS Form 3800, June 2002

See Reverse for Instructions

Dakota Resources Inc. SWD Application 9/22/05																
API	WELL NAME	NEW MEXICO EX STATE #002	BROTHERS PROD CO INC	OPERATOR	FTG NS	NS CD	FTG EW	EW CD	UL2	Sec	Tsp	Rge	30-025-29440	Dist	OGRID_CDE	TVD DEPTH
30-025-29440	PRE-ONGARD WELL #001			PRE-ONGARD WELL OPERATOR	330 N		1980 E		B		9 17S	37E		330	214263	11300
30-025-29829	VIERSEN #003			PENNZENERGY EXPLORATION AND PRODUCTION LLC	150 S		2080 E		O	4 17S	37E		490		17183	6500
30-025-29711	CONSOLIDATED STATE #003			DAKOTA RESOURCES INC (I)	660 N		2128 W		C	9 17S	37E		1,218		5691	11300
30-025-29367	PRE-ONGARD WELL #001			PRE-ONGARD WELL OPERATOR	330 N		660 E		A	9 17S	37E		1,320		214263	11412
30-025-29445	VIERSEN #002			GRUY PETROLEUM MANAGEMENT CO.	1300 S		1650 E		O	4 17S	37E		1,663		162683	11281
30-025-28806	PRE-ONGARD WELL #001			PRE-ONGARD WELL OPERATOR	560 S		1650 W		N	4 17S	37E		1,875		214263	11336



Dakota Resources Inc. SWD Application 9/22/05												
API	WELL NAME	OCD	UL	LAND TYPE	WELL TYPE	SPUD DATE	PLUG DATE	FORMATION AND NOTES	STATUS	ACRES	NBR COMPLS	
30-025-29440	NEW MEXICO EX STATE #002	B		S	O				ACTIVE	80.00		
30-025-03431	PRE-ONGARD WELL #001	B		S	O	1900-01-01	1900-01-01	SINCLAIR OIL & GAS/STATE 335	PLUGGED			1
30-025-29829	VIERSEN #003	O		O	O	1900-01-01	1900-01-01	PENNZOIL EXPL & PRO/VIERSEN	PLUGGED			
30-025-29711	CONSOLIDATED STATE #003	C		S	O			STRAWN	ACTIVE	80.00		1
30-025-29367	PRE-ONGARD WELL #001	A		S	O	1900-01-01	1900-01-01	EXXON CORP /NEW MEXICO EX STATE	PLUGGED			
30-025-29445	VIERSEN #002	O		P	O	2002-11-18		P&A 11-18-02	PLUGGED			
30-025-28806	PRE-ONGARD WELL #001	N		S	O	1900-01-01	1900-01-01	TIPPERARY OIL & GAS/IONS 4 STATE	PLUGGED			

Dakota Resources Inc. SWD Application 9/22/c										
API	WELL NAME	2004 PRODUCING	POOL	LAST PROD	DAYS PROD 2004	GAS PROD 2004	OIL PROD 2004	WATER PROD 2004		
30-025-29440	NEW MEXICO EX STATE #002	SHIPP-STRAWN	55695	200501	305	3183	8	0		
30-025-05431	PRE-ONGARD WELL #001									
30-025-29829	VIERSEN #003									
30-025-29711	CONSOLIDATED STATE #003	SHIPP-STRAWN	55695	200501	197	3441	0	0		
30-025-29367	PRE-ONGARD WELL #001									
30-025-29445	VIERSEN #002			199410	0	0	0	0		
30-025-28806	PRE-ONGARD WELL #001									

**Jones, William V., EMNRD**

**From:** Jones, William V., EMNRD  
**Sent:** Wednesday, October 12, 2005 2:09 PM  
**To:** 'pamm@dakota.wtxcoxma~~il~~.com'  
**Cc:** Kautz, Paul, EMNRD; Ezeanyim, Richard, EMNRD  
**Subject:** SWD Proposal State EX #2 30-025-29440

DAKOTA Resources  
NM EX State #2

Hello Ms. Morphew:

In evaluating your submittal, we have the following questions and comments:

- 1) The address in your newspaper ad for the OCD is over a year out of date. Our rules require the applicant to use the correct address. If you desire to pursue this application, please correct this (see our web site for the latest address) and rerun the ad and send evidence for our files.
- 2) There appears to be a Dakota operated Strawn well making only gas within 1/2 mile called the Consolidated State #3 30-025-29711 and a very prolific Chesapeake operated Strawn well making both oil and gas called the Walter 4 #1 within 1 mile. Chesapeake has another producing Strawn well within one mile also. Your list of Area of Review wells failed to contain the Consolidated State #3 - why did you leave it out?
- 3) Please send a copy of the returned receipt from Chesapeake proving that they received your notice of intent to inject.

Please have your engineer or geologist compare the perforation depths on the proposed injection well versus the producing wells. Also, if these are in the same interval, send a waterflood calculation with mobility ratios, showing that injection into the Strawn gas interval will not cause waste of gas reserves. Injection of water into or near a producing gas interval must be justified.

It is doubtful that this application can be approved administratively - depending on your answers to these questions. Please notify your team to be prepared to present this application before the Division in a public hearing.

Regards,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

10/12/2005

**Pam Morpew**

**From:** Jones, William V., EMNRD [William.V.Jones@state.nm.us]

**Sent:** Wednesday, October 12, 2005 3:27 PM

**To:** pamm@dakota.wtxcoxmail.com

**Subject:** FW: SWD Proposal State EX #2 30-025-29440

*1220 South St. Francis Ave.  
Santa Fe, Nm 87505*

**Cc:** Kautz, Paul, EMNRD; Ezeanyim, Richard, EMNRD

**Subject:** SWD Proposal State EX #2 30-025-29440

Hello Ms. Morpew:

In evaluating your submittal, we have the following questions and comments:

*Re-submitted for publication 10/26/05*

1) The address in your newspaper ad for the OCD is over a year out of date. Our rules require the applicant to use the correct address. If you desire to pursue this application, please correct this (see our web site for the latest address) and rerun the ad and send evidence for our files.

2) There appears to be a Dakota operated Strawn well making only gas within 1/2 mile called the Consolidated State #3 30-025-29711 and a very prolific Chesapeake operated Strawn well making both oil and gas called the Walter 4 #1 within 1 mile. Chesapeake has another producing Strawn well within one mile also. Your list of Area of Review wells failed to contain the Consolidated State #3 - why did you leave it out? *Indadvertently omitted*

3) Please send a copy of the returned receipt from Chesapeake proving that they received your notice of intent to inject.

Please have your engineer or geologist compare the perforation depths on the proposed injection well versus the producing wells.

Also, if these are in the same interval, send a waterflood calculation with mobility ratios, showing that injection into the Strawn gas interval will not cause waste of gas reserves. Injection of water into or near a producing gas interval must be justified.

It is doubtful that this application can be approved administratively - depending on your answers to these questions. Please notify your team to be prepared to present this application before the Division in a public hearing.

Regards,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

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*Chesapeake -*

*Walter 4 #1 Perfs 10,998 - 11,036*

*Dakota*

*Consolidated #3 Perfs 10,944 - 10,960*

10/26/2005

# memorandum

**Date:** 11/8/2005  
**From:** Pam Morphew  
**RE:** SWD Proposal State EX #2

RECEIVED  
NOV 14 2005  
OIL CONSERVATION  
DIVISION

---

**To:** William V. Jones

Please find enclosed the additional information that you requested on our application to convert the above referenced well to SWD. Dakota's Consolidated #3 was inadvertently omitted from the area of review with the first package. It has now been included on the table of review wells and with a well bore schematic. Please advise if you need any additional information.

Pam Morphew

Dakota Resources, Inc.

911 N. Midkiff, Midland, TX 79701

432-397-3420

pamm@dakota.wtxcoxmail.com

pm/pm

**Pam Morphew**

---

**From:** rpieper [rpieper@austin.rr.com]  
**Sent:** Tuesday, November 01, 2005 7:34 AM  
**To:** Pam Morphew  
**Subject:** Memo #2: Proposed Strawn SWD Completion, New Mexico EX State

To: Pam Morphew

From: Ron Pieper

Date: 10/31/05

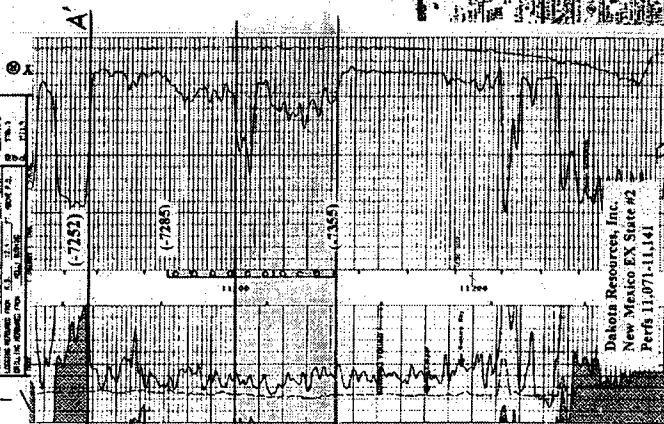
Re: Proposed Strawn SWD Completion, New Mexico EX State #2, Section 9, T-17-S, R-37-E, and Exhibit Stratigraphic Cross Section A-A' (Strawn Section).

Stratigraphic Cross Section A-A' shows the three active Strawn wells in a one-mile radius around the EX State #2 well being proposed for completion in the Strawn as a SWD. These are the Chesapeake "4" #1 Jeffry, Chesapeake "4" #1 Walter, and the Dakota Resources #3 New Mexico State Consolidated well. Each of the wells is demonstrated to be separated in the perforated Strawn section from the proposed SWD.

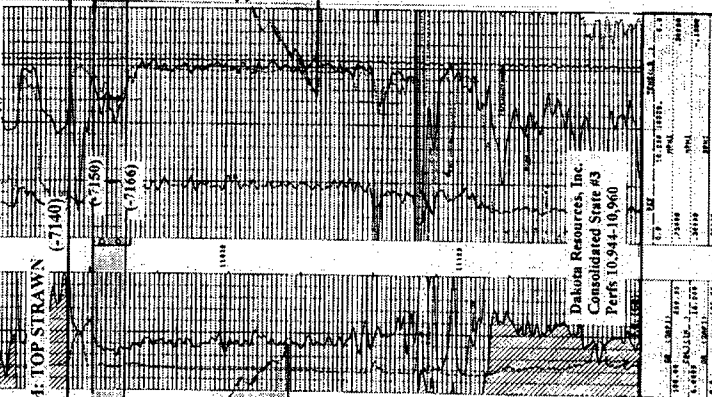
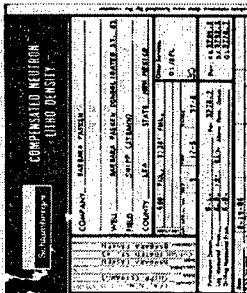
The nearest of the two recent completions by Chesapeake (Walter "4" #1), nearly 3/4 mile away, and 115' high at the top of the Strawn, appears, although no test pressures are available, to be a separate reservoir, undrained by the wells like the EX #2 drilled in the mid 1980's, by virtue of the high Initial Potential Flow rates reported for the well. The highest perforation in the proposed SWD is 56' low to the lowest perforation in the Chesapeake Walter well. Chesapeake's Jeffry (offset to the Walter) well is 64' low at the Top of the Strawn, and is perforated in a correlative interval to the Walter, and good initial flow rates again indicate separation from the proposed SWD.

Dakota's Consolidated #3 well, while considerably closer to the Propsed SWD, is perforated in what appears to be a completely different porosity zone than the proposed SWD or the Chesapeake wells. The main porosity zone developed in the middle of the Strawn section, and perforated in the proposed SWD, is not present in the #3 Consolidated well. The Consolidated #3 well is currently producing only 8 MCFD out of the Strawn.

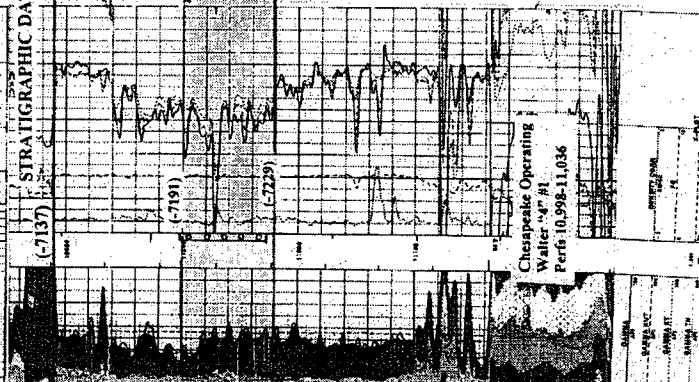
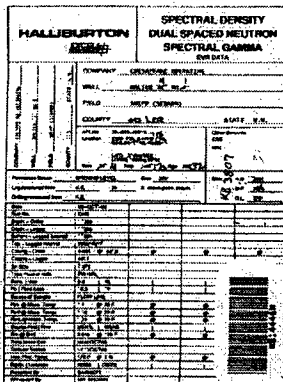
In conclusion, none of the active Strawn wells in the radius of investigation appear to be connected to, and furthermore, are structurally high to, the proposed EX #2 SWD.

[illegible]

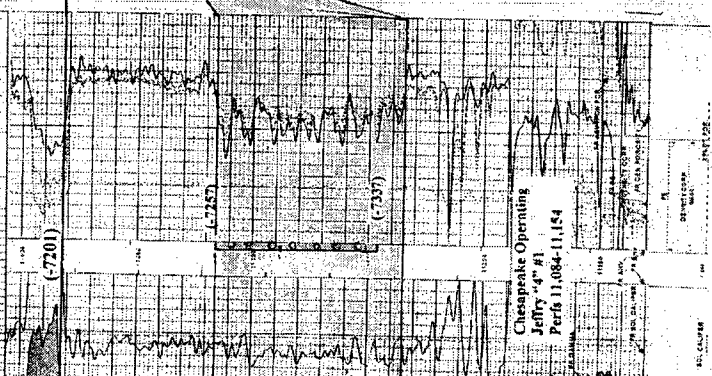
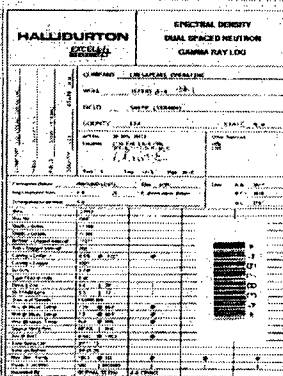
**Dakota Resources, Inc.**  
**New Mexico EX State #2**  
**Perfs 11.071-11.141**



Dakota Resources, Inc.  
Consolidated State #3  
Perfs 10,944-10,960



Chesapeake Operating  
Walter "4" #1  
Perfs 10,998-11,036



Chesapeake Operating  
Jeffry "4" #1  
Perfs 11,084-11,154

# Advertising Receipt

RECEIVED NOV 03 2005

Hobbs Daily News-Sun

201 N Thorp

P O Box 850

Hobbs, NM 88241-0850

Phone: (505) 393-2123

Fax: (505) 397-0610

DAKOTA RESOURCES  
911 N. MIDKIFF  
MIDLAND, TX 79701

Cust#: 02106322-000

Ad#: 67534143

Phone: (432)697-3420

Date: 10/26/05

Ad taker: C2

Salesperson: 06

Classification: 672

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
07 07 Daily News-Sun	10/28/05	10/28/05	1	34.37		34.37
Bold						1.00
Affidavit for legals						3.00

Payment Reference:

LEGAL NOTICE  
October 28, 2005

NOTICE OF APPLICATION FOR FLUID  
INJECTION WELL PERMIT

Dakota Resources, Inc., 911 N. Midkiff, Midland, TX 79701,  
can be contacted by calling (432) 697-3420 and asking for Pam Morphew, has applied to the C  
Conservation Division of New Mexico for a permit in inject fluid into a formation which is  
productive of oil or gas.

The applicant proposes to inject produced fluid into the Strawn formation in the New Mexico E  
state No. 1. The well is located 330' FNL and 1980' FEL of Section 9, T-17-S, R-37-E, Lea  
County6, New Mexico, Shipp Strawn Field. Fluid will be injected through perforations from 11,  
071-11,141'. Maximum injection rate will be 3,000 BWPD with a maximum injection pressure o  
4,000 psi.

Total: 38.37

Tax: 2.57

Net: 40.94

Prepaid: 0.00

Total Due 40.94

201 THORP  
HOBBS, NM 88240

BATCH: 534  
S-A-L-E-S D-R-A-F-T  
75998976  
347402866554

REF: 0001  
CD TYPE: AMEX  
TR TYPE: MAIL/PHONE  
INV:  
DATE: OCT 31, 05 12:55:07

AUS: NO MATCH  
TOTAL \$40.94\*

ACCT: 3806 EXP: \*\*/\*\*  
AP: 166286

CARDMEMBER ACKNOWLEDGES RECEIPT OF GOODS  
AND/OR SERVICES IN THE AMOUNT OF THE  
TOTAL SHOWN HEREON AND AGREES TO PERFORM  
THE OBLIGATIONS SET FORTH BY THE  
CARDMEMBER'S AGREEMENT WITH THE ISSUER



# AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1 weeks.

Beginning with the issue dated

October 28 2005  
and ending with the issue dated

October 28 2005

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 1st day of

November 2005

[Signature]  
Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE  
October 28, 2005

## NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Dakota Resources, Inc., 911 N. Midkiff, Midland, TX 79701, can be contacted by calling (432) 697-8420 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 productive of oil or gas.

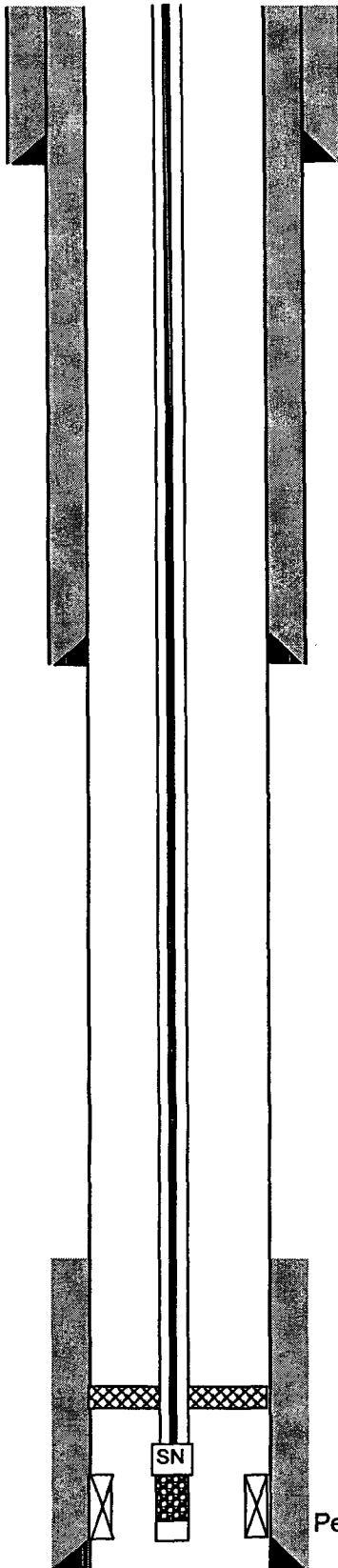
The applicant proposes to inject produced fluid into the Strawn formation in the New Mexico EX-state No. 1. The well is located 330' FNL and 1980' FEL of Section 9, T-17-S, R-37-E, Lea County, New Mexico, Shipp Strawn Field. Fluid will be injected through perforations from 11,071-11,141'. Maximum injection rate will be 3,000 BWPD with a maximum injection pressure of 4,000 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, 1220 South St. Francis Drive, Santa Fe, NM 87505.  
#21891

02106322000 67534143  
DAKOTA RESOURCES  
911 N. MIDKIFF  
MIDLAND, TX 79701

**Consolidated State #3**  
**660 FNL & 2128 FWL**  
**Sec. 9 - T17S-R37E**  
**Lea County, New Mexico**

**Drilled 4/86**



13 3/8" csg set @ 673'  
 1' guide shoe  
 41.8' 61# / H-40 csg  
 1 float insert  
 363.78' 48#/ft. H-40 csg  
 Cmt: 250 sx lite w/ 2% CaCl + 100sx class "C"  
 circ'd 39 sx excess cement

8 5/8" csg set @ 4285'  
 1' guide shoe  
 38.88' 32# K-55  
 1.5' float collar  
 1856.22' 32# K-55  
 2395.42' 24# K-55  
 Cmt: 1450 lite + 200 sx class "C"  
 circ'd 147 sx.

**Perf: 10944-960 w/ 4 jspf (66 total holes)**  
**Acidized w/ 1000 gal. 15% NeFe**

5 1/2" csg set @ 11,300'  
 1.6' float shoe  
 42.29' 20#/ft. LT&C (plain)  
 1.50' float collar  
 177.92 20#/ft. LT&C (plain)  
 276.76' 20#/ft. LT&C (ruff coat)  
 10,792' : 8.12' 20#/ft. LT&C - marker joint

**Perfs: 10,944'-960' w/ 4 JSPF**

**TD @ 11,300**

**PBD @ 11,261**

**11/87:** Put well on pump  
 24' 2x1 1/16x24' RHBC pump w/ 1x10 GA  
 2' 1 7/8x2' Norris 78 Pony rod  
 500' 20 7/8x25' Norris 78 rods  
 7375' 295 3/4x25' Norris 78 rods  
 3050' 122 7/8x25' Norris 78 rods  
 26' 1 1/4x26' pol. Rod w/ 1.5"x16' liner

**2/90:** Acidized w/5000 gal.  
 Dowell SXE 15% oil invert acid

**5/94:** Pump stuck  
 RIH w/ same rod configuration  
 Polish rod 7/8"x25' Norris 90

**10/95:** Pulled all rod and pump out of hole  
 and laid down.

## Requirement VI.

<u>Well Name</u>	<u>Location</u>	<u>Unit Letter</u>	<u>Well Type</u>	<u>Spud Date</u>	<u>Depth</u>	<u>PBTD</u>	<u>Completion</u>	<u>Status</u>	<u>Last Known Operator</u>
Jons 4 State	Sec 4 T17S, R37E 560 FSL & 1650 FWL	N	N/A	9/22/84	11,336	N/A	N/A-Dry Hole	P&A	Tipperary O&G
Viersen #2	Sec 4 T17S, R37E 1300 FSL & 1650 FEL	O	Oil	10/23/1985	11,281	11,232	Perfs 11,059-11,123 Acid w/ 5000 gals	P&A	Gruy Petroleum Mgmt
Vierson #3	Sec 4 T17S, R37E 150 FSL & 2080 FWL	O	Oil	1/2/1987	11,240	11,239	Perfs 11,067-11,090 Acid w/ 8500 gals	P&A	Pennzoil Expl & Prod.
Vierson #1	Sec 4 T17S, R37E 2130 FSL & 660 FEL	I	Oil	7/1/1985	11,390	11,346	Perfs 11,138-11,255 Acid w/ 3000 gals	P&A	Pennzoil Expl & Prod.
Lea "YL" State #1	Sec 4 T17S, R37E 2086 FSL & 2086 FWL	K	N/A	3/4/1986	11,250	N/A	N/A-Dry Hole	P&A	Chevron USA
Walter 4 #1	Sec 4 T17S, R37E 2260 FSL & 718 FWL	L	Oil/Gas	9/8/2002	11,350	Not Avail.	Perfs 10,998-11,036 Treatment N/A	Prod.	Chesapeake Operating
New Mexico EX State #2	Sec 9 T17S, R37E 330 FNL & 1980 FEL	B	Oil/Gas	12/21/1985	11,300	11,238	Perfs 11,071-11,141 Natural Completion	Prod.	Dakota Resources, Inc.
New Mexico EX State #1	Sec 9 T17S, R37E 330 FNL & 660 FEL	A	Oil	3/20/1986	11,412	10,410	Perfs 10,352-10,376 Wolfcamp	P&A	Exxon Corp.
Consolidated State #1	Sec 9 T17S, R37E 2310 FSL & 330 FWL	E	N/A	1/10/1981	11,073	N/A	N/A-Dry Hole	P&A	Fasken Oil & Ranch
Consolidated State #3	Sec 9 T17S, R37E 660 FNL & 2128 FWL	C	Gas	4/1/86	11,600	11,261	Perfs 10944-960	Prod.	Dakota Resources, Inc.