

DATE IN <u>5.30.12</u>	SUSPENSE	ENGINEER <u>WVJ</u>	LOGGED IN <u>5.30.12</u>	TYPE <u>SWD</u>	APP NO. <u>1215156979</u>
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*Lost Date*  
*8/9/12*

ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



*De von 6137*

*NE SALADO Draw Deag Fed. Unit #1*

## ADMINISTRATIVE APPLICATION CHECKLIST

*30-025-28967*

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 \_\_\_\_\_

### [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.

RONNIE SLACK  
Print or Type Name

Ronnie Slack  
Signature

Operations Technician  
Title

5/29/12  
Date

Ronnie.Slack@dvn.com  
e-mail Address

RECEIVED OGD  
2012 MAY 30 AM 11:12



Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

May 29, 2012

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

RE: Form C-108, Application for Authorization to Inject  
N.E. Salado Draw Deep Federal #1; API 30-025-28967  
Lea County, NM  
Section 6, T26S, R34E

Dear Santa Fe Oil Conservation Division:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. Devon's application proposes to convert the N.E. Salado Draw Deep Federal #1 to salt water disposal in the Delaware Bell and Cherry Canyon formations.

Since this is a re-entry of a plugged and abandoned well, an APD (Form 3160-3) has been filed with the BLM (Carlsbad Office).

The surface land owner and operators with leasehold ownership have been notified with Devon's application to inject via certified mail. A copy of this application has been filed with the OCD-Artesia office.

If you have any questions, please contact Jimmy Turnini at (405)-228-4479 or myself at (405)-552-4615.

Sincerely,

A handwritten signature in cursive script that reads "Ronnie Slack".

Ronnie Slack  
Operations Technician

RS/rs  
Enclosure

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance ☒ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? ☒ Yes \_\_\_\_\_ No
- II. OPERATOR: \_\_\_\_\_ Devon Energy Production Company, LP \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ 20 North Broadway, Suite 1500, Oklahoma City, Oklahoma 73102 \_\_\_\_\_  
CONTACT PARTY: \_\_\_\_\_ Ronnie Slack \_\_\_\_\_ PHONE: \_\_\_\_\_ 405-552-4615
- 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: \_\_\_\_\_ Ronnie Slack \_\_\_\_\_ TITLE: \_\_\_\_\_ Operations Technician  
SIGNATURE: \_\_\_\_\_ *Ronnie Slack* \_\_\_\_\_ DATE: \_\_\_\_\_ 5/29/12 \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_ Ronnie.Slack@DVN.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: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

### 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:

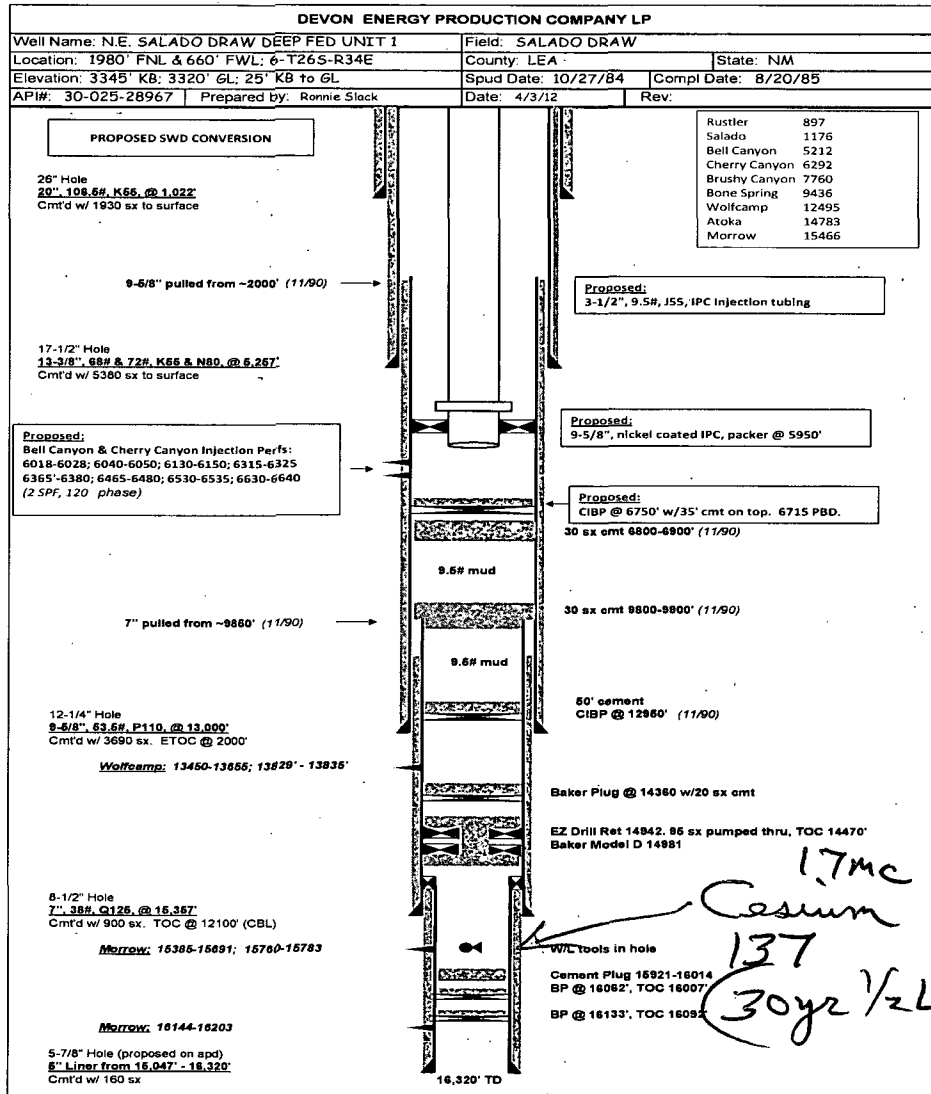
- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates 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.

## INJECTION WELL DATA SHEET

OPERATOR: Devon Energy Production Company, LPWELL NAME & NUMBER: N.E. Salado Draw Deep Federal Unit 1WELL LOCATION: 1980' FNL & 660' FWL  
FOOTAGE LOCATIONE                       
UNIT LETTER6                       
SECTIONT26S                       
TOWNSHIPR34E                       
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"Casing Size: 20, 106.5#, @ 1022Cemented with: 1930 sx.or                      ft<sup>3</sup>Top of Cement: Surface

Method Determined: Circ. cement

Intermediate CasingHole Size: 17-1/2"Casing Size: 13-3/8, 68-72#, @ 5257Cemented with: 5380 sx.or                      ft<sup>3</sup>Top of Cement: Surface

Method Determined: Circ. cement

Production CasingHole Size: 12-1/4"Casing Size: 9-5/8, 53.5#, @ 13000'Cemented with: 3690 sx.or                      ft<sup>3</sup>Top of Cement: 2000'

Method Determined: Estimate

Total Depth: 16320'; 7" csg 9850-15357 5" liner 15047-16320Injection Interval (Perforated)6018' to 6640'(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 3-1/2" Lining Material: IPC

Type of Packer: 9-5/8" IPC

Packer Setting Depth: 5950'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

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

If no, for what purpose was the well originally drilled? oil & gas producer

\_\_\_\_\_

2. Name of the Injection Formation: Delaware.

3. Name of Field or Pool (if applicable): Wolfcamp N.E. Salado Draw

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.

Morrow 16144-16203, plugged off. Morrow 15385-15691, plugged off. Wolfcamp 13450-13835, plugged off. (See schemat for plug back record.

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

Rustler 897'; Salado 1176'; Delaware/Bell Canyon/Lamar 5212; Cherry Canyon 6292; Brushy Canyon 7760; Bone Spring 9436'; Wolfcamp 12495; Atoka 14783; Morrow 15466.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No. NM 114990
6. If Indian, Allottee or Tribe Name
7. If Unit or CA Agreement, Name and No.
8. Lease Name and Well No. N.E. Salado Draw (Deep) Federal 1
9. API Well No. 30-025-28967
10. Field and Pool, or Exploratory Delaware
11. Sec., T. R. M. or Blk. and Survey or Area 6-T26S-R34E
12. County or Parish LEA
13. State NM

1a. Type of work: ☐ DRILL ☒ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other SWD ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
DEVON ENERGY PRODUCTION COMPANY, L.P.

3a. Address 333 W. SHERIDAN AVENUE, OKLAHOMA CITY, OKLAHOMA 73102

3b. Phone No. (include area code)  
405.552.7848

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface 1980 FNL & 660 FWL, 2

At proposed prod. zone BHL: 1980 FNL & 660 FWL, 2

14. Distance in miles and direction from nearest town or post office\*  
19 MILES WSW OF JAL, N.M.

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
See Attached Map

16. No. of acres in lease  
1241.6

17. Spacing Unit dedicated to this well  
40

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
See Attached Map

19. Proposed Depth  
6,750' TD

20. BLM/BIA Bond No. on file  
CO1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3320' GL

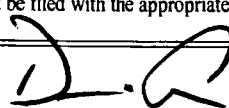
22. Approximate date work will start\*  
06/30/2012

23. Estimated duration  
45 DAYS

24. Attachments Directions/Comments/Schematics

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature  Name (Printed/Typed)  
DAVID H. COOK

Date  
05/17/2012

Title  
REGULATORY ANALYST

Approved by (Signature) Name (Printed/Typed) Date

Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

**DIRECTIONS:**

From intersection of SR 128 & CR 1 (Orla Rd), go south on Orla Road 13.65 miles, turn left (East) on CR 2 (Battle Axe Road), go 11.8 miles to stop sign. Turn right & go 0.3 miles past Dinwiddie Road, turn left on CR 2 and go 1.9 miles; just before cattle guard, turn right on caliche road, go south 0.15 miles, turn left 0.2 miles to caliche road on south, go approx. 1600 feet to site.

**APD COMMENTS:**

Devon Energy Production Co., L.P. plans to re-enter this well, plugged and abandoned by Tex/Con Oil & Gas Company, and convert to SWD in the Delaware formation from 6018-6640'. A C-108 is being filed with the OCD-Santa Fe office.

A cultural survey was completed in this area in 1984 and additional fees for being within the PBMOA will not be required, as per Martin Stein, Carlsbad Field Office, Bureau of Land Management, April 18, 2012.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 15, 2009  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-025-28967</b>		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name <b>DELAWARE</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>NE SALADO DRAW (DEEP) FEDERAL UNIT (SWD)</b>		<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>6137</b>	<sup>8</sup> Operator Name <b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b>		<sup>9</sup> Elevation <b>3325.0</b>

<sup>10</sup> Surface Location

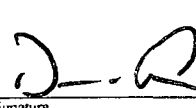
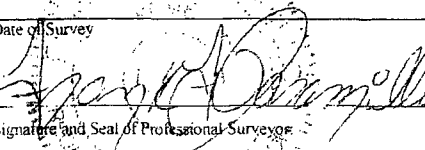
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>2</b>	<b>6</b>	<b>26 S</b>	<b>34 E</b>		<b>1980</b>	<b>NORTH</b>	<b>660</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>589°35'34"W 2842.19 FT 589°33'29"W 2642.86 FT</p> <p>NW CORNER SEC. 6 LAT. = 32.0797341°N LONG. = 103.5175314°W N = 393701.89 E = 794010.23 NMSP EAST (FT) = 393720.67 E = 796852.35</p> <p>NE CORNER SEC. 6 LAT. = 32.0797307°N LONG. = 103.5004716°W N = 393741.06 E = 799295.13 NMSP EAST (FT) = 393741.06 E = 799295.13</p> <p>LOT 1</p> <p>500°25'08"E 2640.31 FT</p> <p>360'</p> <p>SURFACE LOCATION</p> <p>NE SALADO DRAW (DEEP) FEDERAL UNIT #1 (SWD) ELEV. = 3325.0' LAT. = 32.0742952°N (MAD83) LONG. = 103.5154044°W NMSP EAST (FT) = 393726.24 E = 794684.80</p> <p>LOT 2</p> <p>40.15 AC (OLO) 40.07 AC (SURVEYED)</p> <p>W O CORNER SEC. 6 LAT. = 32.0724777°N LONG. = 103.5175355°W NMSP EAST (FT) = 391061.65 E = 794029.53</p> <p>LOT 3</p> <p>LOT 4</p> <p>SW CORNER SEC. 6 LAT. = 32.0652324°N LONG. = 103.5089829°W NMSP EAST (FT) = 388412.09 E = 796898.79</p> <p>S O CORNER SEC. 6 LAT. = 32.0652329°N LONG. = 103.5089829°W NMSP EAST (FT) = 388412.09 E = 796898.79</p> <p>SE CORNER SEC. 6 LAT. = 32.0652302°N LONG. = 103.5004582°W NMSP EAST (FT) = 391105.96 E = 799313.35</p> <p>500°25'33"E 2639.35 FT</p> <p>500°28'10"W 2640.99 FT</p> <p>589°33'40"E 2843.99 FT 589°30'06"E 2641.33 FT</p>			<p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p> 5/18/2012</p> <p>Signature Date</p> <p>Printed Name</p> <p>David H. Cook Regulatory Specialist</p> <p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>APRIL 3, 2012</p> <p>Date of Survey</p> <p></p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: FILMON F. JARAMILLO, PLS 12797</p> <p>SURVEY NO. 936</p>
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**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: N.E. SALADO DRAW DEEP FED UNIT 1

Field: SALADO DRAW

Location: 1980' FNL & 660' FWL; 6-T26S-R34E

County: LEA

State: NM

Elevation: 3345' KB; 3320' GL; 25' KB to GL

Spud Date: 10/27/84

Compl Date: 8/20/85

API#: 30-025-28967

Prepared by: Ronnie Slack

Date: 4/3/12

Rev:

**PROPOSED SWD CONVERSION**

26" Hole

20", 106.5#, K55, @ 1.022'

Cmt'd w/ 1930 sx to surface

9-5/8" pulled from ~2000' (11/90)

17-1/2" Hole

13-3/8", 68# & 72#, K55 & N80, @ 5.257'

Cmt'd w/ 5380 sx to surface

**Proposed:**

Bell Canyon & Cherry Canyon Injection Perfs:  
6018-6028; 6040-6050; 6130-6150; 6315-6325  
6365'-6380; 6465-6480; 6530-6535; 6630-6640  
(2 SPF, 120 phase)

**Proposed:**

3-1/2", 9.5#, J55, IPC Injection tubing

**Proposed:**

9-5/8", nickel coated IPC, packer @ 5950'

**Proposed:**

CIBP @ 6750' w/35' cmt on top. 6715 PBD.

30 sx cmt 6800-6900' (11/90)

9.5# mud

30 sx cmt 9800-9900' (11/90)

9.5# mud

7" pulled from ~9850' (11/90)

12-1/4" Hole

9-5/8", 53.5#, P110, @ 13,000'

Cmt'd w/ 3690 sx. ETOC @ 2000'

50' cement

CIBP @ 12950' (11/90)

Wolfcamp: 13450-13655; 13829' - 13835'

Baker Plug @ 14360 w/20 sx cmt

EZ Drill Ret 14942. 95 sx pumped thru, TOC 14470'  
Baker Model D 14981

8-1/2" Hole

7", 38#, Q125, @ 15,357'

Cmt'd w/ 900 sx. TOC @ 12100' (CBL)

W/L tools in hole

Cement Plug 15921-16014  
BP @ 16062', TOC 16007'

BP @ 16133', TOC 16092'

Morrow: 15385-15691; 15760-15783

Morrow: 16144-16203

5-7/8" Hole (proposed on apd)

5" Liner from 15,047' - 16,320'

Cmt'd w/ 160 sx

16,320' TD

Rustler	897
Salado	1176
Bell Canyon	5212
Cherry Canyon	6292
Brushy Canyon	7760
Bone Spring	9436
Wolfcamp	12495
Atoka	14783
Morrow	15466

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: N.E. SALADO DRAW DEEP FED UNIT 1		Field: SALADO DRAW	
Location: 1980' FNL & 660' FWL; 6-T26S-R34E		County: LEA	State: NM
Elevation: 3345' KB; 3320' GL; 25' KB to GL		Spud Date: 10/27/84	Compl Date: 8/20/85
API#: 30-025-28967	Prepared by: Ronnie Slack	Date: 2/1/12	Rev:

**CURRENT WELLBORE  
PLUGGED & ABANDONED BY TEX/CON  
OIL & GAS-- 11/1/90**

26" Hole  
20", 106.5#, K55, @ 1,022'  
Cmt'd w/ 1930 sx to surface

9-5/8" pulled from ~2000' (11/90) →

17-1/2" Hole  
13-3/8", 68# & 72#, K55 & N80, @ 5,257'  
Cmt'd w/ 5380 sx to surface

7" pulled from ~9850' (11/90) →

12-1/4" Hole  
9-5/8", 53.5#, P110, @ 13,000'  
Cmt'd w/ 3690 sx. ETOC @ 2000'

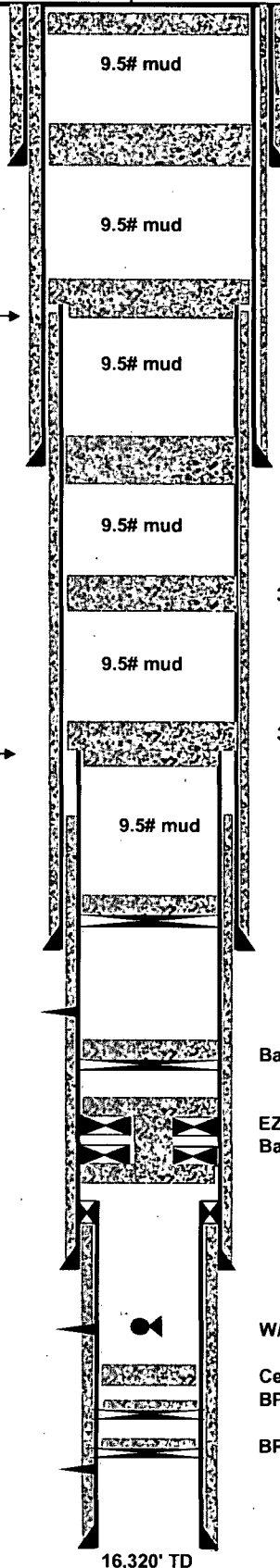
Wolfcamp: 13450-13655; 13829' - 13835'

8-1/2" Hole  
7", 38#, Q125, @ 15,357'  
Cmt'd w/ 900 sx. TOC @ 12100' (CBL)

Morrow: 15385-15691; 15760-15783

Morrow: 16144-16203

5-7/8" Hole (proposed on apd)  
5" Liner from 15,047' - 16,320'  
Cmt'd w/ 160 sx



20 sx surface plug @ 30' (11/90)

60 sx cmt pumped @ 850' (11/90)

60 sx cmt 1890'-2000' (11/90)

30 sx cmt 5120' - 5350' (11/90)

30 sx cmt 6800-6900' (11/90)

30 sx cmt 9800-9900' (11/90)

50' cement  
CIBP @ 12950' (11/90)

Baker Plug @ 14360 w/20 sx cmt

EZ Drill Ret 14942. 95 sx pumped thru, TOC 14470'  
Baker Model D 14981

W/L tools in hole

Cement Plug 15921-16014  
BP @ 16062', TOC 16007'

BP @ 16133', TOC 16092'

16,320' TD

**Proposed Injection Well: N.E. Salado Draw Deep Fed Unit #1**

API: 30-025-28967

**APPLICATION FOR INJECTION**

Form C-108 Section III

**III. Well Data--On Injection Well**

**A. Injection Well Information**

- (1) Lease N.E. Salado Draw Deep Fed Unit  
Well No #1  
Location 1980' FNL & 660' FWL  
Sec,Twn,Rnge Sec 6-T26S-R34E  
Cnty, State Lea County, NM
- (2) Casing 20", 106.5#, K55, @ 1,022'  
Cmt'd w/1930 sx to surf  
13-3/8", 68# & 72#, K55 & N80 @ 5,257'  
Cmt'd w/5380 sx to surf  
9-5/8", 53.5#, P110, @ 13,000'  
Cmt'd w/3690 sx. ETOC @ 2000'.  
(9-5/8" casing pulled from ~2000, during P&A 11/1/90)  
7", 38#, Q125, @ 15,357'  
Cmt'd w/900 sx. TOC @ 12100 (CBL)  
(7" casing pulled from ~9850' during P&A 11/1/90)  
5" liner from 15,047' to 16,320'  
Cmt'd w/160 sx.
- (3) Injection Tubing 3-1/2", 9.5#, J55, IPC injection tubing
- (4) Packer 9-5/8", nickel coated IPC packer @ 5,950'

**B. Other Well Information**

- (1) Injection Formation: Delaware Bell Canyon  
Field Name: Salado Draw
- (2) Injection Interval: 6018 - 6640' (perforated)

**(3) Original Purpose of Wellbore:**

Morrow producer

**(4) Other perforated intervals:**

Morrow: 16144-16203; plugged off.  
Morrow: 15385-15783; plugged off.  
Wolfcamp: 13450-13835; plugged off.

**(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.**

Rustler 897'; Salado 1176'; Delaware/Bell Canyon/Lamar 5212; Cherry Canyon 6292; Brushy Canyon 7760; Bone Spring 9436'; Wolfcamp 12495; Atoka 14783; Morrow 15466

**N.E. Salado Draw Deep Federal Unit #1  
C108 Application for Injection  
Injection Water Analysis  
Avalon Shale Formation  
Devon Energy Production Co LP**

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	578322
Lease/Platform:	ICHABOB 7 FED	Analysis ID #:	119387
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 578322 @ 75 °F					
Sampling Date:	04/04/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	04/22/12	Chloride:	125645.0	3543.99	Sodium:	71749.9	3120.95
Analyst:	STACEY SMITH	Bicarbonate:	1049.2	17.2	Magnesium:	1291.0	106.2
TDS (mg/l or g/m3):	211246.6	Carbonate:	0.0	0.	Calcium:	7064.0	352.5
Density (g/cm3, tonne/m3):	1.138	Sulfate:	2840.0	59.13	Strontium:	426.0	9.72
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.5	0.01
		Borate:			Iron:	68.0	2.46
		Silicate:			Potassium:	1111.0	28.41
Carbon Dioxide:	50 PPM	Hydrogen Sulfide:		0	Aluminum:		
Oxygen:		pH at time of sampling:		6.7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.7	Lead:		
					Manganese:	2.000	0.07
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.34	151.28	0.22	569.17	0.25	501.24	0.63	202.66	0.81	0.29	1.43
100	0	1.40	159.85	0.14	387.63	0.24	479.26	0.61	198.10	0.61	0.29	1.8
120	0	1.45	168.13	0.07	210.09	0.25	497.53	0.59	195.53	0.43	0.29	2.24
140	0	1.50	176.69	0.01	40.82	0.28	548.91	0.58	194.39	0.27	0.00	2.73

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

**N.E. Salado Draw Deep Federal Unit #1  
C108 Application for Injection  
Injection Water Analysis  
Delaware Formation  
Devon Energy Production Co LP**

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (575) 910-9389
Area:	JAL, NM	Sample #:	578350
Lease/Platform:	RATTLESNAKE UNIT	Analysis ID #:	119388
Entity (or well #):	FEDERAL 6	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 578350 @ 75 °F							
Sampling Date:	04/04/12	Anions		mg/l	meq/l	Cations		mg/l	meq/l
Analysis Date:	04/22/12	Chloride:	161186.0		4546.47	Sodium:	66907.2		2910.3
Analyst:	STACEY SMITH	Bicarbonate:	24.4		0.4	Magnesium:	4104.0		337.61
		Carbonate:	0.0		0.	Calcium:	25146.0		1254.79
TDS (mg/l or g/m3):	261471.6	Sulfate:	1252.0		26.07	Strontium:	1169.0		26.68
Density (g/cm3, tonne/m3):	1.187	Phosphate:				Barium:	1.5		0.02
Anion/Cation Ratio:	1	Borate:				Iron:	42.0		1.52
		Silicate:				Potassium:	1631.0		41.71
						Aluminum:			
Carbon Dioxide:	30 PPM	Hydrogen Sulfide:			0	Chromium:			
Oxygen:		pH at time of sampling:			6	Copper:			
Comments:		pH at time of analysis:				Lead:			
		pH used in Calculation:			6	Manganese:	8.500		0.31
						Nickel:			

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0.53	0.00	0.30	329.32	0.35	287.24	0.54	330.96	0.73	0.55	0.12
100	0	-0.45	0.00	0.23	267.56	0.34	282.59	0.52	322.22	0.54	0.55	0.14
120	0	-0.37	0.00	0.17	208.53	0.36	292.43	0.51	319.76	0.38	0.55	0.16
140	0	-0.29	0.00	0.12	153.59	0.40	313.47	0.52	322.76	0.23	0.27	0.18

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

C108 ITEM VI--Well Tabulation in 1/2 Mile Review Area																	
Devon Energy Production Company, LP																	
Proposed Inj Well:	N.E. Salado Draw Deep Federal Unit 1																
Proposed Formation:	Delaware																
Proposed Interval:	6018' - 6640'																
Operator	Well Name	API NO	County	Surf Location	Sec	Twn	Rnge	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval-Ft	Casing Program	Cement / TOC
Devon Energy Prod Co LP	N.E. Salado Draw Deep Federal Unit 1	30-025-28967	Lea	1980' FNL 660' FWL	6	26S	34E	Gas	P&A 12/29/90	10/27/84	8/20/85	16320	surface	Wolfcamp Morrow	13450-13835 (plugged off) 15385-16203 (plugged off)	20", 106.5#, @ 1022' 13-3/8", 68-72#, @ 5257' 9-5/8", 53.5#, @ 2000-13000 7", 38#, 9850-15357' 5" liner 15047-16320	1930 sx / surf 5380 sx / surf 3690 sx / 2000'-est 900 sx / 12100-cbl 160 sx / liner top
Ralph L Lowe	Conoco Federal 1	30-025-08396	Lea	660' FNL 660' FEL	1	26S	33E	NA	D&A 4/2/1960		NA	5315		NA	NA	8-5/8", 24#, @ 937'	500 sx / surf (no wellbore abandonment records available)

*Subject Well*

*Shallow*

**Proposed Injection Well: N.E. Salado Draw Deep Fed Unit #1**

API: 30-025-28967

**APPLICATION FOR INJECTION**

Form C-108 Section VII to XIII

**VII Attach data on the proposed operation, including:**

- (1) Proposed average injection rate: 2000 BWPD  
Proposed maximum injection rate: 5000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 600 psi  
Proposed max injection pressure: 1210 psi
- (4) The injection fluid will be produced water from the Avalon and Delaware formations that will be injected into the Delaware Bell Canyon formation.
- (5) A representative water analysis is submitted for Delaware and Avalon formations.

**VIII Geologic Injection Zone Data**

The injection zone is the Delaware Bell and Cherry Canyon formation from 6018' to 6640'. The gross injection interval is 622' thick. The Delaware Bell Canyon formation is a Permian aged sandstone. The average depth to fresh water is 150' in this area.

**IX Proposed Stimulation**

324000# 16/30 sand, 3900 gals 10# gel, 133000 gals 25# gel, 2000 gals 15% HCL acid

**X Log Data**

Logs have previously been submitted to the OCD.

**XI Fresh Water Analysis**

Two fresh water wells were identified in Sec 6-T26S-R34E. One well was caved in, the other does not have a pump. Were not able to get water samples.

Dinwiddie Cattle Co; C 03441 POD 1; X=640970 Y=3550039

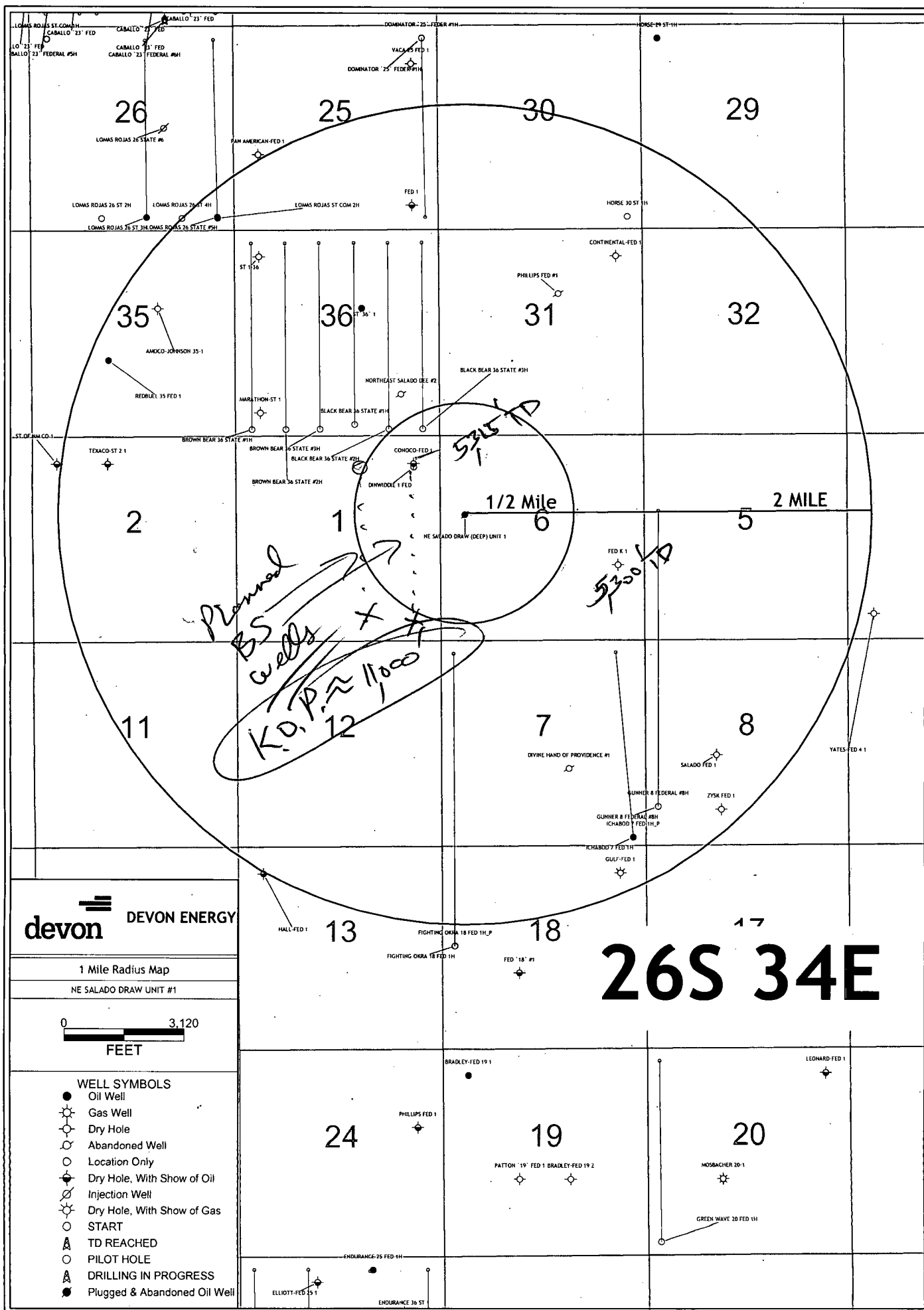
Dinwiddie Cattle Co; C 03442 POD 1; X=641055 Y=3550028

**XII Geologic / Engineering Statement**

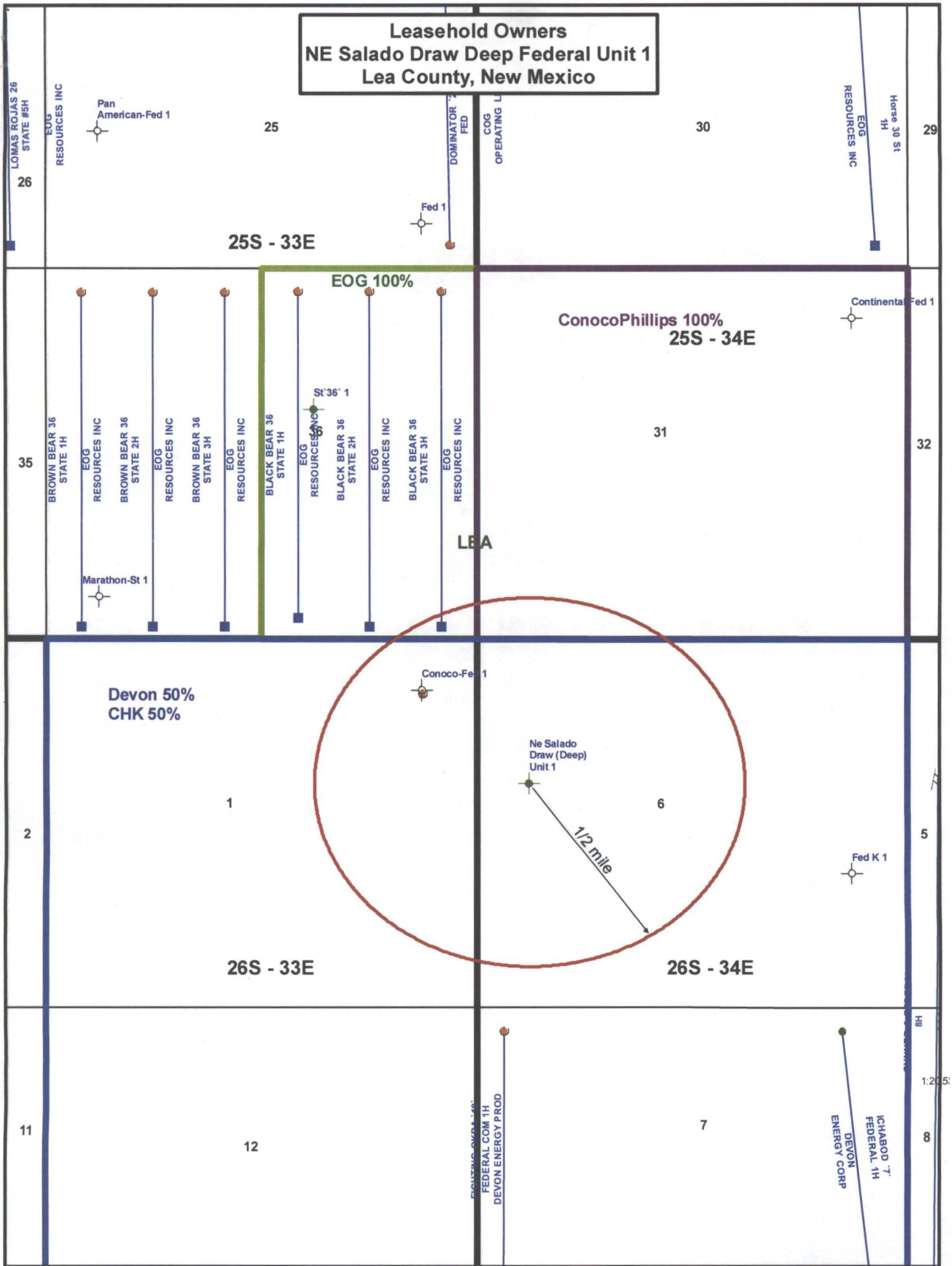
An examination of this area has determined there are no open faults or other hydrologic connection between the disposal zone and any underground drinking water.

**XIII Proof of Notice**

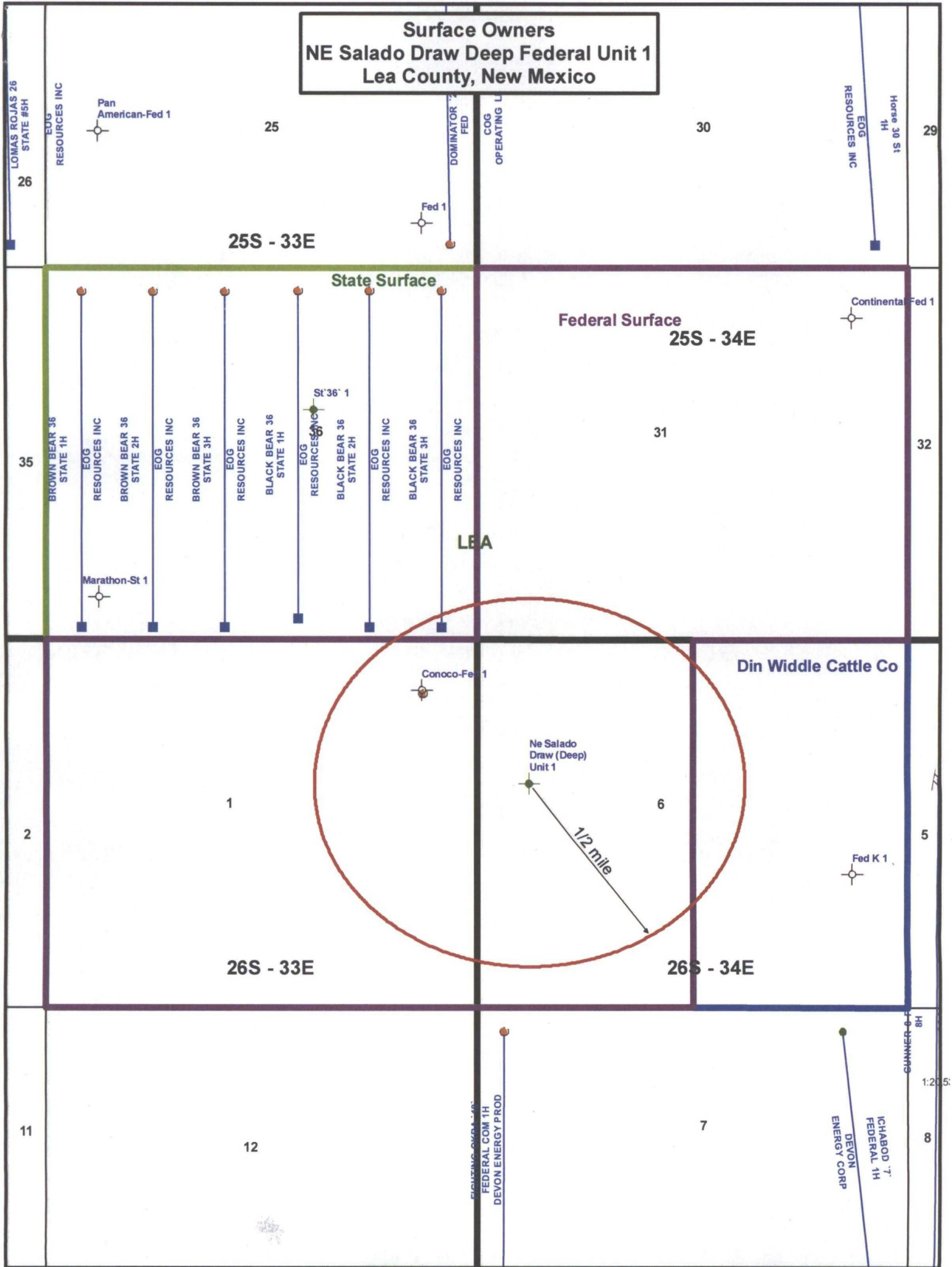
Proof of notice to surface owner, and public legal notification are attached.



**Leasehold Owners**  
**NE Salado Draw Deep Federal Unit 1**  
**Lea County, New Mexico**



**Surface Owners  
NE Salado Draw Deep Federal Unit 1  
Lea County, New Mexico**



Leasehold OwnerTabulation  
Devon-C108 SWD Application  
1/2 Mile Review Area  
Ne Salado Draw Deep Federal Unit 1  
Lea County, NM

Company	Sec	TwN	Rng	Per Cent
EOG	36	25S	33E	100
ConocoPhillips	31	25S	34E	100
Devon	1	26S	33E	50
Chesapeake	1	26S	33E	50
Devon	6	26S	34E	50
Chesapeake	6	26S	34E	50

Surface OwnerTabulation  
Devon-C108 SWD Application  
1/2 Mile Review Area  
Ne Salado Draw Deep Federal Unit 1  
Lea County, NN

Company	Sec	TwN	Rng	Per Cent
BLM	6	26S	34E	50
Din Widdle Cattle Co.	6	26S	34E	50

(100% Federal on surface location of well)

Section XIV--Proof of Notice to Surface Land Owner  
Devon Energy Prod Co LP  
C108 Application For Injection  
Proposed Well: N.E. Salado Draw Deep Federal Unit 1

Proof of Notice to Surface Land Owner of well location site.

Bureau of Land Management  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, NM 88220

Certified receipt No.  
7008 1830 0003 1983 5301

A copy of this application has been mailed to the above surface land owner by certified mail, pertaining to Devon Energy's application for salt water disposal in the N.E. Salado Draw Deep Federal Unit #1.

Date Mailed: 5/29/12

Signature: Ronnie Slack

Date: 5/29/12

Ronnie Slack, Operations Technician  
Devon Energy Production Co., L.P.  
333 West Sheridan Avenue  
Oklahoma City, OK 73102

Section XIV--Proof of Notice to Leasehold Operators  
Devon Energy Prod Co LP  
C108 Application For Injection  
Proposed Well: N.E. Salado Draw Deep Federal Unit 1

Proof of Notice to Leasehold Operators within 1/2 mile of N.E. Salado Draw Deep  
Federal Unit #1

EOG Resources Inc  
P.O. Box 4362  
Houston, TX 77210

Certified receipt No.  
7008 1830 0003 1983 5264

Conoco Phillips  
600 North Dairy Ashford  
Houston, TX 77079

Certified receipt No.  
7008 1830 0003 1983 5349

Chesapeake Exploration Limited Partnership  
6100 North Western  
Oklahoma City, OK 73118

Certified receipt No.  
7008 1830 0003 1983 5295

A copy of this application has been mailed to the above leasehold operators by  
certified mail, pertaining to Devon Energy's application for salt water disposal in  
the N.E. Salado Draw Deep Federal Unit #1.

Date Mailed: 5/29/12

Signature: Ronnie Slack

Date: 5/29/12

Ronnie Slack, Operations Technician  
Devon Energy Production Co., L.P.  
333 West Sheridan Avenue  
Oklahoma City, OK 73102

# Affidavit of Publication

State of New Mexico,  
County of Lea.

I, JUDY HANNA  
PUBLISHER

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

of 1 issue(s).

Beginning with the issue dated  
February 17, 2012  
and ending with the issue dated  
February 17, 2012

  
PUBLISHER

Sworn and subscribed to before me  
this 7th day of  
March, 2012

  
Notary Public

My commission expires  
February 09, 2013  
(Seal)



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 FEBRUARY 17, 2012

Devon Energy Production Company, LP, 20 North Broadway, Oklahoma City, OK 73102-8260 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the NE Salado Draw Deep Fed Unit #1, is located 1980' FNL & 660' FWL, Section 6, Township 26 South, Range 34 East, in Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Avalon and Delaware formations. The disposal water will be injected into the Delaware formation at a depth of 6018' to 6640', at a maximum surface pressure of 1210 psi and a maximum rate of 5000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within (15) days of this notice. Any interested party with questions or comments may contact Ron Hays at Devon Energy Corporation, 20 North Broadway, Oklahoma City, OK 73102-8260, or call (405) 552-8150. #27156

67106734

00087684

ATTN: DVNOKC98  
DEVON ENERGY - ATTN: DVNOKC98  
P.O. BOX 3198  
OKLAHOMA CITY, OK 73101

## Jones, William V., EMNRD

---

**From:** Turnini, Jimmy <Jimmy.Turnini@dvn.com>  
**Sent:** Thursday, August 09, 2012 2:53 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Slack, Ronnie  
**Subject:** FW: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1  
30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perms from 6018 to 6640 feet  
**Attachments:** IC\_Potash\_Corp.pdf

William,

Please see responses to questions you asked back in June. Sorry for the delay. If you don't mind dragging this one out again to review I would appreciate it. Also can you please make a comment about the depth of the lost logging tool being adequate for the proposed SWD conversion. This would help in getting approval from the BLM.

If there are questions please don't hesitate to call.

Thank you,

Jimmy Turnini  
Sr. Staff Engineer  
Permian Basin SENM

Devon Energy Corporation  
OKDEC 31.322  
405 637 5411 Cell  
405 228 4479 Office



---

**From:** Slack, Ronnie  
**Sent:** Thursday, August 09, 2012 10:15 AM  
**To:** Turnini, Jimmy  
**Cc:** Slack, Ronnie; Porter, Stephanie  
**Subject:** FW: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perms from 6018 to 6640 feet

Jimmy,

See follow up response below to questions that Will Jones had on 6/22/12, regarding the NE Salado Draw Deep Federal Unit #1. Let me know if you need anything else--Ronnie

- a. I know this is a re-entry of a P&A'd well, but I didn't see any comments about potential productivity of the target disposal interval. Would you please ask your geologist or log analyst to comment on the water salinity and hydrocarbon productive capability of the target interval(s)?
- aa. Devon Reply per geology-- There appears to be no production out of the basal part of the Bell Canyon or upper part of the Cherry Canyon (our proposed perf. intervals) within 5 miles of the NE Salado Draw Deep

Fed. Unit #1. According to my database, all nearby shallow Delaware production is <5400' TVD, well above our injection zone.

b. Fresh water may extend to 150 feet – what is this stratigraphic unit called? Is it the Ogallala or Alluvium or Rustler or something else?

**bb.** Devon Reply per geology-- At 150 foot depth, the stratigraphic interval would be considered Quaternary Alluvium

c. Do you know how far this is from the newly planned Potash mine (intercontinental potash corporation – BLM minerals)?

**cc.** Devon Reply per land--I'm coming up with a distance of ~9.5 miles from the NE Salado Draw Deep Federal Unit #1 to ICP's 10 year and 50 year proposed mine outline. The attached map was derived from a PowerPoint presentation ICP presented to Devon earlier this year. As you will notice the section tied to the captioned well is not even close enough to be included in the map.

d. The Kick Off Point in the newly planned Bone Spring wells to be located just west of this location in Section 1 of T26S R33E is below the top of the Bone Spring. Does Devon/Chesapeake plan to cover this Delaware interval (6000 feet to 6700 feet) with cement?

**dd.** Devon Reply per operations—Will I believe you are referring to Devon's proposed Dinwiddie 1 Federal 1H, located Sec 1-T26S-R33E. I don't think Devon will be drilling this well now, but the drilling plan was to set 13-3/8 @ 950', cemented to surface; 9-5/8 @ 5250', cemented to surface; 7" @ 12800', cemented back to 4700', then a 4-1/2" liner was going to be set 12500-16150, cemented to liner top. So yes the Delaware interval will be covered by cement.

---

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

**Sent:** Tuesday, July 24, 2012 4:38 PM

**To:** Turnini, Jimmy; Slack, Ronnie

**Cc:** Porter, Stephanie

**Subject:** RE: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perms from 6018 to 6640 feet

I am thinking this would not be an issue for SWD permitting?

If you guys will respond to the other questions I emailed to Ronnie on June 22, I will drag this one out and go over it again.

If you have already responded please forgive me – about a million things going at once.

Will Jones

New Mexico

Oil Conservation Division

Images Contacts

---

**From:** Turnini, Jimmy [mailto:Jimmy.Turnini@dvn.com]

**Sent:** Tuesday, July 24, 2012 2:57 PM

**To:** Jones, William V., EMNRD; Slack, Ronnie

**Cc:** Porter, Stephanie

**Subject:** RE: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perms from 6018 to 6640 feet

Will,

Yes, this is the well with the lost source several thousand feet deep and I was of the opinion it was of no concern due to the depth and plugs set above it but Wesley Ingram with the BLM wanted to make sure the state was aware and approved the distance between the depth of the tool and the proposed interval. This is why we wanted to make sure you were aware and after looking at the schematic submitted I didn't see that it was clearly marked. That's all... If you would like to discuss further just let me know.

Thanks,

Jimmy Turnini  
Sr. Staff Engineer  
Permian Basin SENM

Devon Energy Corporation  
OKDEC 31.322  
405 637 5411 Cell  
405 228 4479 Office



---

**From:** Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]  
**Sent:** Tuesday, July 24, 2012 1:52 PM  
**To:** Slack, Ronnie  
**Cc:** Turnini, Jimmy; Porter, Stephanie  
**Subject:** RE: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perfs from 6018 to 6640 feet

Hello Ronnie,  
I am in meetings all afternoon.  
I think this one had an old source lost in the hole thousands of feet deeper than the proposed disposal interval?  
I wasn't worried about it for that reason.

Will Jones  
New Mexico  
Oil Conservation Division  
[Images](#) [Contacts](#)

---

**From:** Slack, Ronnie [<mailto:Ronnie.Slack@devn.com>]  
**Sent:** Tuesday, July 24, 2012 12:42 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Turnini, Jimmy; Porter, Stephanie  
**Subject:** RE: Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perfs from 6018 to 6640 feet

Will,

The NE Salado Draw Deep Federal Unit #1 has lost radioactive W/L tools at ~15679'. I have attached a revised schematic noting the tools containing Cesium 137.

The BLM has stated the state would need to give permission for SWD conversion regarding lost radioactive tools.

Jimmy and I wanted to give you a call sometime today or tomorrow at your convenience to discuss this.

Thanks,

*Ronnie Slack*

Operations Technician  
Devon Energy Corporation  
DEC 31.334  
(405) 552-4615 (office)  
(405) 552-1415 (fax)  
Email: [Ronnie.Slack@devon.com](mailto:Ronnie.Slack@devon.com)

---

**From:** Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]  
**Sent:** Friday, June 22, 2012 12:53 PM  
**To:** Slack, Ronnie  
**Cc:** Ezeanyim, Richard, EMNRD; [Wesley Ingram@blm.gov](mailto:Wesley.Ingram@blm.gov); Kautz, Paul, EMNRD  
**Subject:** Disposal application from Devon: NE Salado Draw Deep Federal Unit #1 30-025-28967 Sec 6 T26S R34E Bell and Brushy Canyon perms from 6018 to 6640 feet

Hello Ronnie,  
Reviewed and have a few questions and requests,

- a. I know this is a re-entry of a P&Aed well, but I didn't see any comments about potential productivity of the target disposal interval. Would you please ask your geologist or log analyst to comment on the water salinity and hydrocarbon productive capability of the target interval(s)?
- b. Fresh water may extend to 150 feet – what is this stratigraphic unit called? Is it the Ogallala or Alluvium or Rustler or something else?
- c. Do you know how far this is from the newly planned Potash mine (intercontinental potash corporation – BLM minerals)?
- d. The Kick Off Point in the newly planned Bone Spring wells to be located just west of this location in Section 1 of T26S R33E is below the top of the Bone Spring. Does Devon/Chesapeake plan to cover this Delaware interval (6000 feet to 6700 feet) with cement?

Otherwise, all looks good to me.

Thank You,

William V. Jones, P.E.  
Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462



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# Injection Permit Checklist (11/15/2010)

WFX PMX SWD 1348 Permit Date 8/9/12 JIC Qtr

# Wells 1 Well Name(s): NE SALADO DRAW Deep Fd #1

API Num: 30-0 25-28967 Spud Date: 10/21/84 New/Old: N (UIC primacy March 7, 1982)

Footages 1980 FUL/660 FUL Unit E Sec 6 Tsp 26S Rge 34E County LEA

General Location: SW edge of LEA CTY / SW of JAL

Operator: DEVON ENERGY PRODUCTION COMPANY, LP Contact: RONNIE SLACK / Ron Hays

OGRID: 6137 RULE 5.9 Compliance (Wells) 5/16/13 (Finan Assur) OK IS-5.9 OK? OK

Well File Reviewed Current Status: P&A

Planned Work to Well: Repair

Diagrams: Before Conversion After Conversion Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New Existing Surface	26	20	1022'	—	1930 SK	CIRC
New Existing Interm	17 1/2	13 1/8	5,257	?	5380 SK	CIRC
New Existing LongSt	12 1/4	9 5/8	13,000	?	3690 SK	2000' EST.
New Existing Liner	8 1/2	7"	9850-15257	—	900 SK	12,100 CBL
New Existing OpenHole	5 1/8	5"	15047-16325	—	160 SK	

## Depths/Formations:

	Depths, Ft.	Formation	Tops?
Formation(s) Above	5212	Bell C.	✓
	6292	Cherry C.	✓
Injection TOP:	6618	Bell C.	Max. PSI 1204
Injection BOTTOM:	6640	Cherry C.	Tubing Size 3 1/2
Formation(s) Below	7760	Bell C.	✓
	9436	Bone Spring	✓

Cesium R.A. SOURCE IN Deep Part of Hole

Capitan Reef? (Polish?) Noticed? (WIPP?) Noticed? Salado Top/Bot 1176-5212 Cliff House?

Fresh Water: Depths: 150' Formation QAL Wells? yes Analysis? NOT Aline Affirmative Statement ✓

Disposal Fluid Analysis? Sources: AVALON / Delaware

Disposal Interval: Analysis? Production Potential/Testing:

Notice: Newspaper Date 2/17/12 Surface Owner BLM Mineral Owner(s) BLM

RULE 26.7(A) Affected Persons: Conoco / Devon / EOG / Chesapeake (5/29/12)

AOR: Maps? Well List? Producing in Interval? NO Wellbore Diagrams? —

.....Active Wells 0 Repairs? Which Wells? —

.....P&A Wells 0 Repairs? Which Wells? —

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