

DATE: 6/13/08	SUSPENSE	ENGINEER: W Jones	LOGGED IN: 6/13/08	TYPE: SWD 1135	APP NO: PKVR08168555665
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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 \_\_\_\_\_ Surface Commingling\_\_\_\_\_**

**[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.**

Norvella Adams

Sr. Staff Engineering Technician

6/10/08

Print or Type Name

Signature

Title

Date

Norvella.adams@dvnm.com  
 e-mail Address

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Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

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2008 JUN 13 PM 3 19

June 11, 2008

New Mexico Oil Conservation Division  
1220 S St. Francis Drive  
Santa Fe, New Mexico 87505

Attn: William Jones

Re: Application for Authorization to Inject (Form C108)  
Federal T # 1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Mr. Jones:

Devon Energy Production Company, LP, as Operator of the referenced well, respectfully submits the attached Application for Authorization to Inject (Form C108). Devon proposes to take produced water and re-inject it back into the Lower Wolfcamp and Cisco formations for waterflood purposes utilizing the Federal T # 1 well.

A copy of this application has been sent to the New Mexico Oil Conservation Division, Artesia, NM office. As referenced by the attached letters, the surface owner and leasehold operators within a ½ mile radius of these wells have been notified by certified mail regarding this application. A notice of intent has also been filed with the Bureau of Land Management in Carlsbad, New Mexico.

Please contact me at 405-552-8198 should you have any questions.

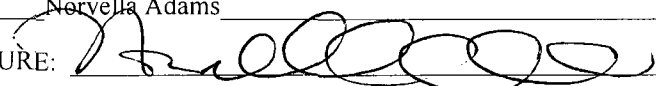
Sincerely,

Devon Energy Production Company, LP

Norvella Adams  
Senior Staff Engineering Technician

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, Oklahoma City, Oklahoma 73102 \_\_\_\_\_  
CONTACT PARTY: \_\_\_\_\_ Norvella Adams \_\_\_\_\_ PHONE: \_\_\_\_\_ 405-552-8198
- 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: \_\_\_\_\_ Norvella Adams \_\_\_\_\_ TITLE: \_\_\_\_\_ Senior Staff Engineering Technician  
SIGNATURE: \_\_\_\_\_  \_\_\_\_\_ DATE: \_\_\_\_\_ 6/10/08 \_\_\_\_\_  
E-MAIL ADDRESS: \_\_\_\_\_ norvella.adams@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: \_\_\_\_\_

### 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, L.P.WELL NAME & NUMBER: Federal T # 1WELL LOCATION: 660' FNL & 990' FEL A Sec 12 T18S R27E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA  
Surface CasingHole Size: 17 1/2" Casing Size: 13-3/8" @ 400'Cemented with: 425 sx. or ft<sup>3</sup>Top of Cement: Surface Method Determined: Circ. cementIntermediate CasingHole Size: 12 1/4"Casing Size: 9-5/8" @ 2604'Cemented with: 1025 900 sx. or ft<sup>3</sup>Top of Cement: Surface ☒ Method Determined: Circ. cementProduction CasingHole Size: 8 3/4"Casing Size: 7" @ 9450'Cemented with: 1350 450 sx. or ft<sup>3</sup>Top of Cement: 4342 Method Determined: Circ. cementTotal Depth: SurfaceInjection Interval (Perforated)7,400' feet to 8,200'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2", 9.3#, N80 run to +/- 6,810' Lining Material: \_\_\_\_\_

Type of Packer: 5 1/2" IPC \_\_\_\_\_

Packer Setting Depth: 6,800' \_\_\_\_\_

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

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes \_\_\_\_\_ X \_\_\_\_\_ No

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

2. Name of the Injection Formation: L. Wolfcamp and Cisco \_\_\_\_\_

3. Name of Field or Pool (if applicable): North Illinois Camp Morrow \_\_\_\_\_

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 from 10,008' to 10,054' (perfs under CIBP at 9,950' with another CIBP @ 9,040' with 35' cement on top)  
Cisco from 7,760' to 8,060' (perfs squeezed with 100 sx cement and under cement retainer at 7,745', 7,780', 7,820', 8,000')

Cisco from 7,685' - 7,695' (perfs under CIBP at 7,595' with 35' cement on top')

Wolfcamp from 7,330' - 7,360' (perfs under CIBP at 7,300' with 35' cement on top)

Wolfcamp from 7,092' - 7,146' (perfs under CIBP at 7,078')

Wolfcamp from 6,868' - 7,038' (perfs under CIBP at 6,800')

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

Morrow at 9,600' -10,250'

Atoka at 9,230' - 9,700'

Upper Wolfcamp 6,400' -7,200'

Abo at 5,600' -6,200'

Yeso at 3,300' -3,900'

San Andres at 2,000' -2,800'

Queen at 1,450' -1,650'

**Devon Energy Production Company, LP**

Well Name: FEDERAL T #1		Field: NORTH ILLINOIS CAMP MORROW	
Location: 660' FNL & 990' FEL; SEC 12-T18S-R27E		County: EDDY	State: NM
Elevation: 3634' KB; 3618' GL		Spud Date: 6/28/90	Compl Date: 9/13/90
API#: 30-015-26404	Prepared by: Ronnie Slack	Date: 2/1/08	Rev:

17-1/2" Hole  
13-3/8", 68#, LTC, @ 472'  
 Cmt'd w/450 Sx. Circ to surface

12-1/4" Hole  
8-5/8", J55, 32#, STC, @ 2,589'  
 Cmt'd w/900 Sx. Circ to surface

WOLFCAMP (8/21/93)  
 6,868' - 7,038'

CIBP @ 6,800' (9/28/93)

WOLFCAMP (8/18/93)  
 7,092' - 7,097'; 7,120' - 7,146'

CIBP @ 7,078' (8/21/93)

WOLFCAMP (8/16/93)  
 7,330' - 7,340'; 7,350' - 7,360'

35' cement. 7,265' PBD  
 CIBP @ 7,300' (8/18/93)

CISCO (8/1/93)  
 7,685' - 7,695'

35' cement. 7,560' PBD  
 CIBP @ 7,595' (8/16/93)

CISCO (7/30/93)  
 7,760' - 7,768' Sqzd w/100 sx (7/31/93)

Cement retainer @ 7745' (7/31/93)

CISCO (7/28/93)  
 7,790' - 7,798' Sqzd w/100 sx (7/29/93)

Cement retainer @ 7780' (7/29/93)

CISCO (7/25/93)  
 7,932' - 7,940' Sqzd w/100 sx (7/27/93)

Cement retainer @ 7820' (7/27/93)

CISCO (7/22/93)  
 8,034' - 8,042' Sqzd w/100 sx (6/24/93)  
 8,055' - 8,060'

Cement retainer @ 8000' (7/24/93)

35' cement. 9,005' PBD  
 CIBP @ 9,040' (7/21/93)

4" Liner top @ 9,055'

7-7/8" Hole  
5-1/2", N80, 17#, LTC, @ 9,473'  
 Cmt'd w/430 Sx

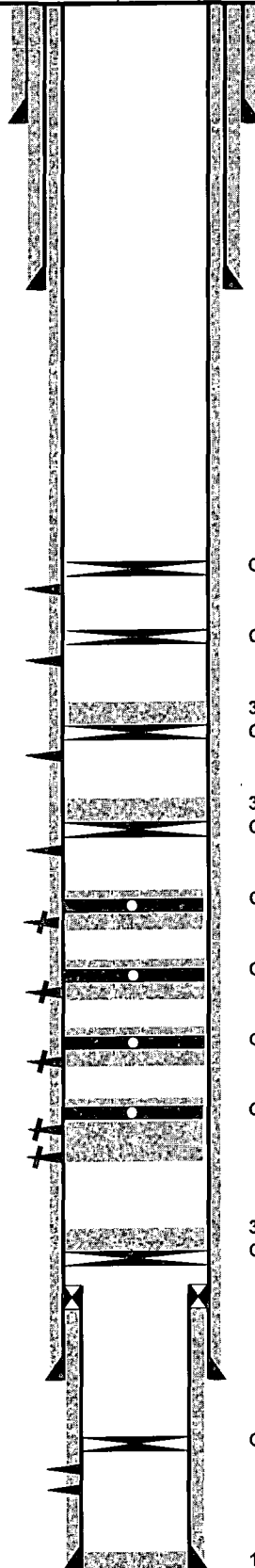
CIBP @ 9,950' (7/19/93)

MORROW (9/14/90)  
 10,008' - 10,014'  
 10,038' - 10,054'

4-3/4" Hole  
4" 10.46#, L80 Liner @ 9,055' - 10,141'  
 Cmt'd w/80 Sx

10,100' PBD

10,141' TD



FEDERAL T # 1  
APPLICATION FOR INJECTION  
Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Federal T  
Well No #1  
Location 660' FNL & 990' FEL  
Sec,Twn,Rnge Sec 12, T18S-R27E, Unit Letter A  
Cnty, State Eddy County, New Mexico
- (2) Casing 13-3/8", 68#, LTC @ 472' in 17-1/2" hole. Cmt'd w/ 450 sx.  
TOC @ surface. Cement circulated.  
8-5/8", 32#, J-55 @ 2,589'. Cmt'd w/ 900 sx.  
TOC @ surface. Cement circulated.  
5-1/2", 17#, N-80 @ 9,473'. Cmt'd w/ 430 sx.  
4", 10.46#, L-80 Liner @ 9,055'-10,141'. Cmt'd w/ 80 sx.
- (3) Injection Tubing 3-1/2", 9.3#, N80 coated tubing run to +/- 6,810'.
- (4) Packer 5-1/2" IPC Packer set at +/- 6,800'

B. Other Well Information

- (1) Injection Formation: Lower Wolfcamp and Cisco  
Field Name: Diamond Tail
- (2) Injection Interval: 7,400' - 8,200' (Wolfcamp completion in this well was not successful)
- (3) Original Purpose of Wellbore: 7,400' to 8,200' (cased hole, perforated)

The Federal T #1 was spud June 28, 1990 and completed as a producer in the North Illinois Camp Morrow zones from 11,008' to 10,054'. Total cumulative production is 137,315 BO, 2,614 BW, and 41,403 MCF. Production declined and it is currently shut in.

(4) Other perforated intervals:

Only perforated zones are:  
Wolfcamp from 6,868'-7,038'; 7,092'-7,097'; 7,120'-7,146'; 7,330'-7,340'; 7,350'-7,360'  
Cisco from 7,658'-7,695'; 7,760'-7,768'; 7,790'-7,798'; 7,932'-7,940'; 8,034'-8,042'; 8,055'-8,060'

(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.

The top of the Atoka zone is noted at 9,230'-9,700' MD. The depths listed below represent the variation in production depths over a fairly large (3+ mile radius) area with a notable dip. The next lower oil zone top is the Abo at 5,600'. The Federal T # 1 was productive in the North Illinois Camp Morrow from 10,008' to 10,10,054'. The next lower productive oil zone is in the Yeso from 3,300' to 3,900" which is being produced in the Federal T # 1 well.

Morrow 9,600'-10,250'  
Atoka 9,230'-9,700'  
Upper Wolfcamp 6,400'-7,200'  
Abo 5,600'-6,200'  
Yeso 3,300'-3,900'  
San Andres 2,000'-2,800'  
Queen 1,450'-1,650'

**FEDERAL T # 1**  
**APPLICATION FOR INJECTION**  
**Form C-108 Section VII to XII**

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

- (1) Proposed average injection rate: 9,200 BWPD  
Proposed maximum injection rate: 10,500 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 700 psi  
Proposed max injection pressure: 1500 psi
- (4) The proposed injection fluid is produced water from the San Andres and Yeso that will be re-injected into the L. Wolfcamp and Cisco zones. Attached is a water analysis of San Andres and Yeso produced water from the West Red Lake Station # 1 Salt Water Disposal system. No water compatability issues are anticipated.
- (5) Disposal zone Canyon formation water is submitted from a nearby well, the State G #1.  
well.

**VIII Geologic Injection Zone Data**

The proposed injection zone is the the Lower Wolfcamp and Cisco formations at a depth of 7,400' to 8,200'. The L. Wolfcamp and Cisco are porous carbonate. The proposed injection interval is 800' thick. The average depth of water report notes aquifers at an average depth of 90'. Surface casing is set at 472' and cemented to surface in the Federal T #1.

**IX Proposed Stimulation**

Depending on injection rates and pressures, the proposed injection zone could be stimulated as follows:  
Lower Cisco (7893'-8060') - 4,000 gallons 15% HCl + 77,500 gallons x-linked fluid with 110,000 lbs 20/40 White Sand + 4,400 gallons linear gel flush. Injection rate 40 BPM

Upper Cisco - 7685'-7840' - 4,000 gallons 15% HCl + 70,500 gallons x-linked fluid with 99,250 lbs 20/40 White Sand + 4,200 gallons linear gel flush. Injection rate 40 BPM

Lower Wolfcamp will not be stimulated.

**X Log Data**

Well logs have previously been submitted to the OCD.

**XI Fresh Water Analysis**

No fresh water wells were indicated within one mile of proposed injection well per New Mexico office of the State Engineer web site.

*WINDMILLS / OTHER wells?*

**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, leasehold operator, and public legal notification is attached



BJ Services

## WATER ANALYSIS

Atesia Laboratory

(505) 746-3140

Operator:   
Well: West Red Lake Station #1   
Formation:   
Field:   
County:   
Depth:   
Date: 5/29/2008   
District: Artesia   
Requested: Merle Lewis   
Technician: Terry Croft   
Source: A M   
PFS Test #:   
M:Water Analysis\ Customer: Devon Energy

PH 1.135 Temp (F): 78   
Specific Gravity: 7.08 H2S:

### CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	281873	12260.7	39813
Calcium	4010	200.1	566
Magnesium	< .5	24.0	---
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	0	0.0	0

### ANIONS

Chloride	440000	12411.8	62147
Sulfate	1600	33.3	226
Carbonate	0	0.0	0
Bicarbonate	952	15.6	134

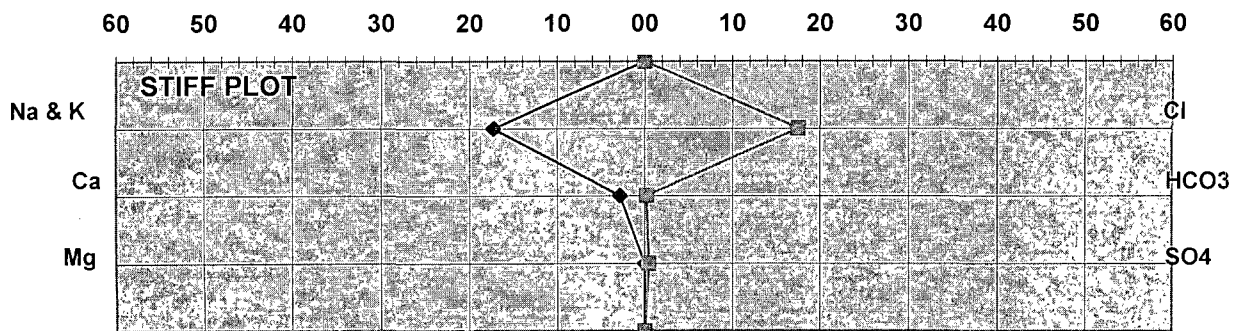
Total Dissolved Solids(calc.) 728434 102886

Total Hardness as CaCO3 10014 200.1 1414

### COMMENTS:

### SCALE ANALYSIS:

CaCO3 Factor	3815916	Calcium Carbonate Scale Probability	Probable
CaSO4 Factor	6416000	Calcium Sulfate Scale Probability:	Possible





# Water Analysis

Date: 2/24/2005

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

## Analyzed For

Company	Well Name	County	State
Westall	State G#1	Eddy	New Mexico

## Sample Source

Sample #

1

## Formation

Canyon

## Depth

Specific Gravity	1.050	SG @ 60 °F	1.051
pH	6.30	Sulfides	Not Tested
Temperature (°F)	65	Reducing Agents	Not Tested

## Cations

Sodium (Calc)	in Mg/L	9,518	in PPM	9,056
Calcium	in Mg/L	5,600	in PPM	5,328
Magnesium	in Mg/L	240	in PPM	228
Soluble Iron (FE2)	in Mg/L	300.0	in PPM	285

## Anions

Chlorides	in Mg/L	24,000	in PPM	22,835
Sulfates	in Mg/L	2,000	in PPM	1,903
Bicarbonates	in Mg/L	165	in PPM	176
Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	14,272
Total Dissolved Solids (Calc)	in Mg/L	41,844	in PPM	39,813
Equivalent NaCl Concentration	in Mg/L	38,410	in PPM	36,546

## Scaling Tendencies

\*Calcium Carbonate Index 1,038,464

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

\*Calcium Sulfate (Gyp) Index 11,200,000

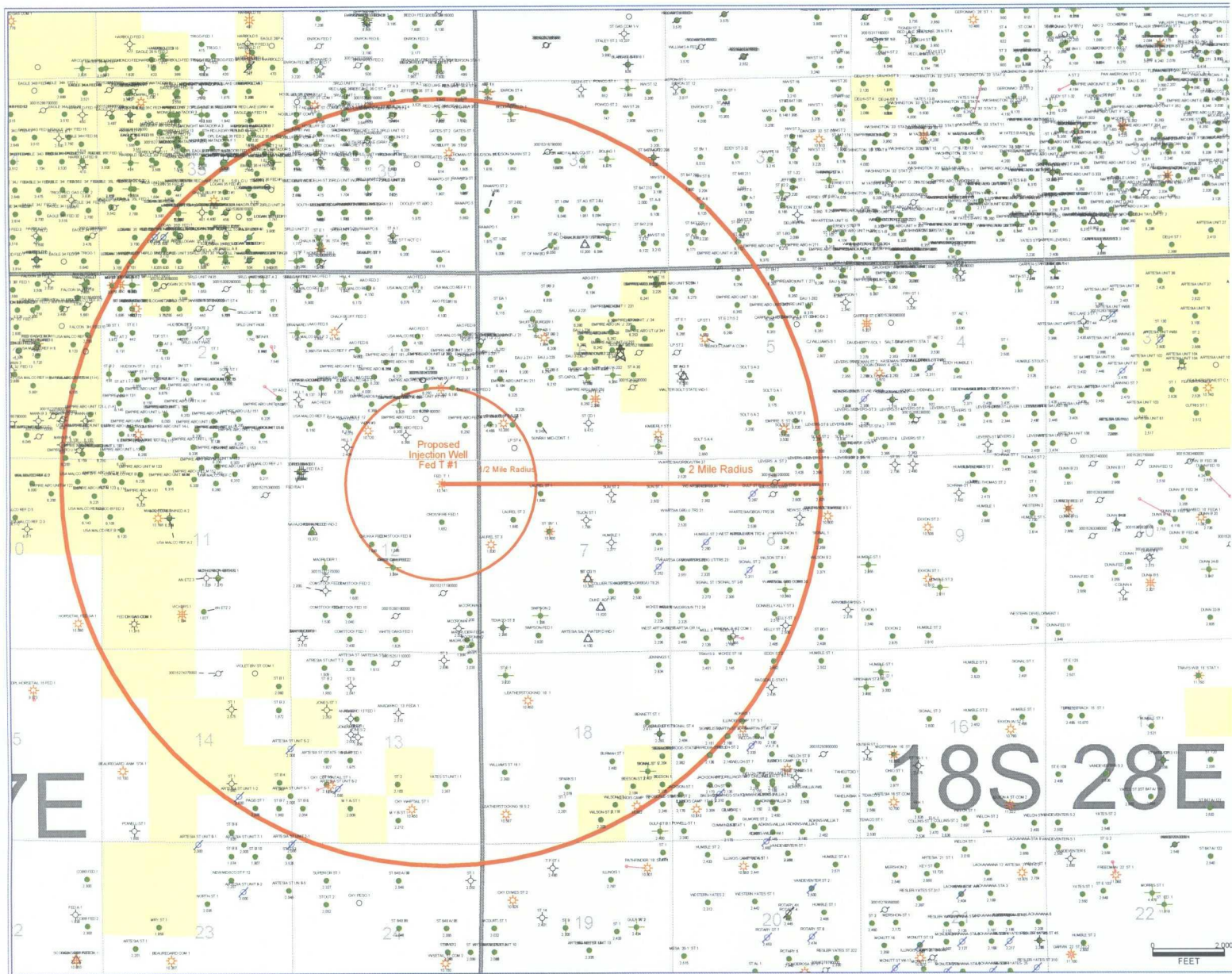
Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

\*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks FAX 677-2361

Report # 1732

INT DISPOSAL ZONE  
VII. 5



C108 ITEM VI--Well Tabulation in Review Area													
Devon Energy Production Company, LP													
Proposed Disposal Well: Federal T # 1													
Operator	Well Name	API NO	County	Footage	Sec Twn Rnge	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval-Ft
Bill L. Miller	Chukka Federal #1	30-015-25270	Eddy	2310' FNL 2310' FNL	12 18S 27E	Oil	Active	04/23/85	05/04/85	1600'	1575'	Artesia Q-GB-SA	1508'-1520'
													8-5/8" 24# @ 362' 5-1/2" 15.5# & 17# @ 1600'
Harlow Enterprises LLC	Comstock Federal 9	30-015-25738	Eddy	2310' FNL 2310' FNL	12 18S 27E	Oil	Active	04/25/87	06/02/87	1586'	1520'	Artesia Q-GB-SA	1510'-1520'
													8-5/8" 24# @ 300' 4-1/2" 9.5# @ 1586'
Bill L. Miller	Laurel Slate 3	30-015-31319	Eddy	2310' FNL 330' FNL	7 18S 28E	Oil	Active	10/02/00	01/31/01	1630'	1610'	Artesia Q-GB-SA	1552'-1630'
													8-5/8" 24# @ 469' 5-1/2" 17# @ 1552'
Bill L. Miller	Laurel Slate 2	30-015-25675	Eddy	940' FNL 1757' FNL	7 18S 28E	Oil	Active	10/28/88	11/10/88	1690'	1650'	Artesia Q-GB-SA	1589'-1616'
													7" 24# @ 402' 4-1/2" 9.5# @ 1690'
Harlow Enterprises LLC	Comstock Federal 6 (was named Crossfire Federal 1)	30-015-25099	Eddy	1809' FNL 990' FEL	12 18S 27E	Oil	Active	08/18/85	09/11/85	1652'	1620'	Artesia Q-GB-SA	1517'-1526'
													8-5/8" 24# @ 380' 4-1/2" 9.5# @ 1645'
Mewbourne Oil Co	Chalk Bluff 6 State 1	30-015-26943	Eddy	730' FNL 990' FSL	6 18S 28E	Gas	Active	02/17/92	04/16/92	10,200'	10,151'	North Illinois Camp Morrow	10,084'-10,092'
													13-3/8" 48# & 68# @ 400' 9-5/8" 24# @ 2,600' 28# @ 9,445' 1/2" Liner @ 10,198'
BP America Production Company	Empire Abo Unit L (was named Empire Federal 4)	30-015-00699	Eddy	940' FSL 330' FEL	1 18S 27E	Oil	Active	11/16/61	12/14/61	6239'		Empire Abo	6218'-6226'
													8-5/8" 24# @ 1481' 1/2" 11.6# @ 6,239'
BP America Production Company	Empire Abo Unit 191A	30-01521873	Eddy	1526' FSL 1470' FEL	1 18S 27E	Oil	P&A'd	08/27/76	09/22/76	6350'	6798'	Empire Abo	5984'-6172'
													8-5/8" 24# @ 1000' 1/2" 14# & 15.5# @ 6,350'
Navajo Refining Company	WDW 3	30-015-26575	Eddy	7650' FSL 2250' FNL	1 18S 27E	Oil	Active	12/22/90	01/29/91	10,119'	9,022'	Cisco/Canyon	7660'-8620'
													13-3/8" 54.5 @ 400' 5/8" 36# @ 2,604' 28# & 26# @ 9,450' 4-1/2" Liner @ 10,119'
BP America Production Company	Empire Abo Unit 194	30-015-22658	Eddy	1500' FSL 2130' FEL	1 18S 27E	Oil	Active	10/18/78	11/14/78	6,325'	6178'	Empire Abo	6007'-6160'
													8-5/8" 24# @ 998' 1/2" 15.5# @ 6,325'
Marbob Energy Corporation	LP State 3	30-015-31087	Eddy	980' FSL 330' FNL	6 18S 28E	Oil	Active	06/19/00	07/15/00	4,466'	1,460'	Empire, Yates- Seven Rivers	661'-697', 1510'-1524'
													8-5/8" 24# @ 568' 1/2" 17# @ 4,006'
Penroc Oil Corp	Slate M-A1 2	30-015-02627	Eddy	949' FSL 990' FNL	6 18S 28E	Oil	Active	10/04/60	10/21/60	6,225'	6197'	Empire Abo	6188'-6192', 6158'-6164'
													9-5/8" 36# @ 1004' 1/2", 17, 20, & 23# from 0-6,225'
Arco Permian	Empire ABO Unit 191 (was named Empire Abo Federal 3)	30-015-00698	Eddy	660' FSL 1980' FEL	1 18S 27E	Oil	P&A'd	08/27/76	09/22/76	6350'	P&A'd	San Andres-Yeso	5984'-6172' (plugged)
													8-5/8" 24# @ 1000' 1/2", 14# & 15.5# @ 6,350'
Arco Permian	Empire ABO Unit 19 (was named Empire Abo Federal 5)	30-015-20394	Eddy	953' FSL 2197' FEL	1 18S 27E	Oil	P&A'd	03/16/71	04/09/71	6300'	P&A'd	Empire Abo	6206'-6216' (plugged)
													8-5/8" 24# @ 1531' 1/2" 9.5# @ 6,300'

**Form C-108 Section XIV**  
**Proof of Notice to Surface Land Owner**

Application For Injection in Federal T #1  
Devon Energy Production Company, LP

**Surface Land Owner**

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

Certified receipt No.  
**7007 0710 0001 9808 8684**

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 Federal T #1.

Date Mailed: 6/11/2008

Signature: 

Date: 6/11/2008

Norvella Adams, Sr. Staff Engineering Technician  
Devon Energy Production Co., L.P.  
20 N. Broadway, Suite 1500  
Oklahoma City, OK 73102



Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
[www.devonenergy.com](http://www.devonenergy.com)

June 11, 2008

Bureau of Land Management  
620 East Greene Street  
Carlsbad, New Mexico 8820

Surface Land Owner

Re: Application for Authorization to Inject (Form C108)  
Federal T #1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Bureau of Land Management:

This is to advise you that Devon Energy Production Company, LP, is filing an application with the New Mexico Oil Conservation Division (NMOCD) seeking authorization to inject produced water back into the Lower Wolfcamp and Cisco formations for waterflood purposes utilizing the Federal T # 1 well.

A copy of our application submitted to the Division is attached.

Our records indicate that you are the surface land owner on which the referenced wells are located. This letter is to serve as notification of our intent. Any objections or requests that a hearing be held regarding this application must be submitted within 15 days to the NMOCD at the following address.

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

Please contact me at 405-552-8152, should you have any questions.

Sincerely,

Devon Energy Production Company, LP

A handwritten signature in black ink, appearing to read "Marcos Ortiz". The signature is fluid and cursive, with the first name "Marcos" and last name "Ortiz" clearly distinguishable.

Marcos Ortiz  
Operations Engineer

**Form C-108 Section XIV**  
**Proof of Notice to Leasehold Operator**

Application For Injection in Federal T # 1  
Devon Energy Production Company, LP

**Leasehold Operators within 1/2 mile of Federal T # 1**

Mewbourne Oil Company  
500 W. Texas, Suite 1020  
Midland, Texas 79701

Certified receipt No.  
**7007 0710 0001 9808 8691**

Morexco Inc.  
PO Box 51208  
Midland, Texas 79710

**7007 0710 0001 9808 8714**

Navajo Refining Company  
PO Box 159  
Artesia, New Mexico 88210

**7007 0710 0001 9808 8707**

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 Federal T #1.

Date Mailed: 6/11/2008

Signature: 

Date: 6/11/2008

Norvella Adams, Sr. Staff Engineering Technician  
Devon Energy Production Co., L.P.  
20 N. Broadway  
Oklahoma City, OK 73102



Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

June 11, 2008

Mewbourne Oil Company  
500 W. Texas, Suite 1020  
Midland, Texas 79701

Leasehold Operator

Re: Application for Authorization to Inject (Form C108)  
Federal T # 1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Ladies and Gentlemen:

This is to advise you that Devon Energy Production Company, LP, is filing an application with the New Mexico Oil Conservation Division (NMOCD) seeking authorization to inject produced water back into the Lower Wolfcamp and Cisco formations for waterflood purposes utilizing the Federal T # 1 well.

A copy of our application submitted to the Division is attached.

This letter is to serve as notification of our intent to leasehold operators within a ½ mile radius of the well locations. Any objections or requests that a hearing be held regarding this application must be submitted within 15 days to the NMOCD at the following address.

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Santa Fe, New Mexico 87505

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Sincerely,

Devon Energy Production Company, LP

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Marcos Ortiz  
Operations Engineer

Enclosure



Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

June 11, 2008

Mewbourne Oil Company  
500 W. Texas, Suite 1020  
Midland, Texas 79701

Leasehold Operator

Re: Application for Authorization to Inject (Form C108)  
Federal T # 1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Ladies and Gentlemen:

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Santa Fe, New Mexico 87505

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Sincerely,

Devon Energy Production Company, LP

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Marcos Ortiz  
Operations Engineer

Enclosure



Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

June 11, 2008

Bureau of Land Management  
620 East Greene Street  
Carlsbad, New Mexico 8820

Surface Land Owner

Re: Application for Authorization to Inject (Form C108)  
Federal T #1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Bureau of Land Management:

This is to advise you that Devon Energy Production Company, LP, is filing an application with the New Mexico Oil Conservation Division (NMOCD) seeking authorization to inject produced water back into the Lower Wolfcamp and Cisco formations for waterflood purposes utilizing the Federal T # 1 well.

A copy of our application submitted to the Division is attached.

Our records indicate that you are the surface land owner on which the referenced wells are located. This letter is to serve as notification of our intent. Any objections or requests that a hearing be held regarding this application must be submitted within 15 days to the NMOCD at the following address.

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

Please contact me at 405-552-8152, should you have any questions.

Sincerely,

Devon Energy Production Company, LP

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Marcos Ortiz  
Operations Engineer

**Legal Notice**

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 to convert the following wells located in Eddy County, NM to water injection wells.

Federal T # 1  
660' FNL & 990 FEL  
Section 12-18S-27E

The intended purpose of these wells is to inject produced waters in the Cisco and Wolfcamp formations to enhance oil production through secondary recovery. Maximum injection rates of 10,500 bwpd and maximum pressures of 1500 psi are expected.

All interested parties opposing the aforementioned 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. Additional information may be obtained by contacting Marcos Ortiz at (405) 552-8152.

*Affidavit of Publication to follow under separate*

*Cover -*

*[Signature]*

*6/11/08*



Devon Energy Corporation  
20 North Broadway  
Oklahoma City, OK 73102-8260

405 235 3611 Phone  
www.devonenergy.com

RECEIVED

2008 JUL 8 PM 1 56

June 11, 2008

New Mexico Oil Conservation Division  
1220 S St. Francis Drive  
Santa Fe, New Mexico 87505

Attn: William Jones

Re: Application for Authorization to Inject (Form C108)  
Federal T # 1  
Sections 12, Township 18 South, Range 27 East  
Eddy County, New Mexico

Mr. Jones:

Please find attached the Affidavit of Publication for the well in review. We did not have this at the time we submitted our application.

Please contact me at 405-552-8198 should you have any questions.

Sincerely,

Devon Energy Production Company, LP

Norvella Adams  
Senior Staff Engineering Technician

Enclosure

# Affidavit of Publication

State of New Mexico,  
County of Eddy, ss.

**Kathy McCarroll**, being first duly sworn,  
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

June 13 2008

That the cost of publication is \$ **45.78** that Payment Thereof has been made and will be assessed as court costs.

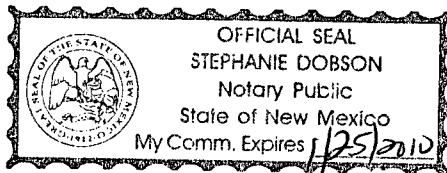
Kathy McCarroll

Subscribed and sworn to before me this

13<sup>th</sup> day of June, 2008  
Stephanie Dobson

My commission Expires on 1/25/2010

Notary Public



June 13, 2008

## Legal Notice

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 to convert the following wells located in Eddy County, NM to water injection wells:

Federal T # 1  
660' FNL & 990 FEL  
Section 12-18S-27E

The intended purpose of these wells is to inject produced waters in the Lower Wolfcamp and Cisco formations to enhance oil production through secondary recovery. Maximum injection rates of 10,500 bwpd and maximum pressures of 1500 psi are expected.

All interested parties opposing the above mentioned 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. Additional information may be obtained by contacting Marcos Ortiz at (405) 552-8152.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**SUNDRY NOTICES AND REPORTS ON WELLS**

FORM APPROVED  
OMB NO. 1004-0135  
EXPIRES: NOVEMBER 30, 2000

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other \_\_\_\_\_

2. Name of Operator

**DEVON ENERGY PRODUCTION COMPANY, LP**

3. Address and Telephone No.

**20 North Broadway, Oklahoma City, OK 73102**

**405-552-8198**

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

**660' FNL & 990' FEL**

**Section 12 T18S R27E, Unit A**

5. Lease Serial No.

**NM-42410**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Well Name and No.

**Federal T 1**

9. API Well No.

**30-015-26404**

10. Field and Pool, or Exploratory

**Wolfcamp**

12. County or Parish 13. State

**Eddy**

**NM**

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepens directionally or recompletes horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP is preparing Form C108, Application for Authorization to Inject that will be filed with the Oil Conservation Division, Santa Fe, New Mexico office. Devon is proposing to convert the Federal T #1 well to SWD in the Lower Wolfcamp and Cisco zones from 7400' to 8200'. The BLM has been sent a copy of C108 application filed with the OCD.

1. RIH and drill out CIBP's at 6,800', 7,078', & 7,265'.
2. Perform injection step rate test in the Lower Wolfcamp.
3. Drill out CIBP at 7,560' and cement retainers at 7,745', 7,780', & 7,820', & 8,000'.
4. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf from 7,893'-7,899'; 7,902'-7,907'; 7,910'-7,916'; 7,919'-7,927'; 7,932'-7,959'; 7,965'-7,967'; 7,971'-7,972'; 7,976'-7,978'; 8,034'-8,042'; 8,055'-8,060'; 8160'-8164'.
5. Frac as recommended.
6. RIH with RBP and set at +/- 7,865'.
7. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf at 7,758'-7,768'; 7,790'-7,798'; 7,800'-7,818'; 7,832'-7,840'.
8. Frac as per recommended.
9. POOH with RBP and RIH with tubing and packer. Set packer at 7,600'. Perform injection step rate test in Cisco.
10. Tie in disposal line routed from West Red Lake SWD Battery and establish injection.

14. I hereby certify that the foregoing is true and correct

Signed 

Name **Norvella Adams**  
Title **Sr. Staff Engineering Technician**

Date **6/11/2008**

(This space for Federal or State Office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any: \_\_\_\_\_

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

\*See Instruction on Reverse Side

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION

Drawer DD

Carlsbad, NM 88210

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy Co. New Mexico

## BUNDLY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

OCT - 6 1993

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL &amp; 990' FEL

Sec. 12-T18S-R27E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
- 
- ☒
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Abandonment
- 
- ☒
- Recompletion
- 
- ☐
- Plugging Back
- 
- ☐
- Casing Repair
- 
- ☐
- Altering Casing
- 
- ☐
- Other
- 
- ☐
- Change of Plans
- 
- ☐
- New Construction
- 
- ☐
- Non-Routine Fracturing
- 
- ☐
- Water Shut-Off
- 
- ☐
- Conversion to Injection
- 
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

\* Verbal from Adam Salameh

- 08/14/93 Well pumping 1442 BW. 0 BO, 0 MCF from attempted completion in Cisco formation. MIRU well service rig.
- 08/15/93 Set CIBP @ 7595' over Cisco Perfs (7685'-7695'). Dump 4 sx. cmt. on plug. Perf. Wolfcamp formation (7330'-7360') (44 H)
- 08/16/93 Swabbed well down w/no entry.
- 08/17/93 Acidized Wolfcamp formation w/3000 gal 15% FE acid. Swabbed water w/no show of oil or gas.
- 08/18/93 Set CIBP @ 7300' over Wolfcamp formation (7330'-7360'). Dump 4 sx. cmt. on plug. Perf'd Wolfcamp formation (7092'-7146') (62H). Swabbed well down. No entry.
- 08/19/93 Acidized Wolfcamp formation (7092'-7146') w/3000 gal. 15% FE acid.
- 08/20/93 Swabbed well w/no show of oil or gas.
- 08/21/93 Set CIBP @ 7078' over Perfs (7092'-7146'). Perf'd Wolfcamp (6868'-7038') (80H)
- 08/22/93 Acidized Wolfcamp formation (6868'-7038') w/3000 gal. 15% FE acid.
- 08/24/93 Swabbing water w/trace of oil.
- 08/26/93 Acid frac'd Wolfcamp (6868'-7038') w/3000 gal. 20% FE acid & 15,000 gal. gel water. See attached page.

14. I hereby certify that the foregoing is true and correct

Signed

Title Production Engineer

Date 09/08/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

  
OCT - 4 1993

Title 18 U.S.C. Section 1001, makes 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.

\*See Instruction on Reverse Side

CARLSBAD, NEW MEXICO

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONC. CO. 85202  
Drawer DD  
MUSKIE, NM 88410

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

AUG 24 11 03 AM '93

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

SEP - 8 1993

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Newbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 990' FEL Sec. 12-T18S-R27E

5. Lease Designation and Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

North Illinois Camp

11. County or Parish, State

Morrow

Eddy Co. N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☒ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Verball from Adam - BLM.

07/19/93 Set 4" CIBP @ 9950' over Morrow Perfs. (10,008'-10,054') Dump 2 sx. cmt.  
07/21/93 Set 5-1/2" CIBP @ 9040' @ top of liner. Dumped 4 sx. cmt.  
07/22/92 Perf. Cisco Formation (8034'-8042' w/2 SPF & 8055'-8060' w/2SPF. Swabbed tested all water.  
07/24/93 Set cmt. retainer @ 8000'. Pumped 100 sx. cmt. into perfs. (8034'-8060')  
07/25/93 Perf. Cisco Formation 7832'-7840' w/2 SPF. Swab tested all water.  
07/27/93 Set cmt. retainer @ 7820'. Pumped 100 sx. cmt. into perfs. (7832'-7840')  
07/28/93 Perf. Cisco Formation 7790'-7798' w/2 SPF. Swab tested all water.  
07/29/93 Set cmt. retainer @ 7780'. Pumped 100 sx. cmt. into perfs. (7790'-7798')  
07/30/93 Perf. Cisco Formation 7760'-7768' w/2 SPF. Swab tested all water.  
07/31/93 Set cmt. retainer @ 7745'. Pumped 100 sx. cmt. into perfs. (7760'-7768')  
08/01/93 Perf. Cisco Formation 7685'-7695' w/4 SPF. Swab tested water w/show of gas.  
08/03/93 Acidized Cisco Formation (7685'-7695') w/3000 gal 15% FE acid.  
08/04/93 RIH w/tbg. pump to 5033' & started pumping well.  
08/05/93 1100 BHPD No oil.  
08/06/93 1200 BHPD No oil.

14. I hereby certify that the foregoing is true and correct

Signed

*David H. Freeman*

Title Engineer

Date August 20, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN THIS DATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0000  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
NM-42410  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different depth. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐  
2. NAME OF OPERATOR Mewbourne Oil Company  
3. ADDRESS OF OPERATOR P. O. Box 7698, Tyler, Texas 75711  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
660' FNL & 990' FEL

SEP 13 '90

O. C. D.  
ARTESIA, OFFICE

7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
FEDERAL "T"  
9. WELL NO.  
1  
10. FIELD AND POOL, OR WILDCAT  
N. Illinois Camp Morrow  
11. SEC., T., R., M., OR BLK. AND SURVEY OR ALMA  
12-18S-27E  
12. COUNTY OR PARISH  
Eddy  
13. STATE  
N.M.

14. PERMIT NO.  
API #30-015-26404  
15. ELEVATIONS (Show whether DE, RT, GK, etc.)  
3618.9' FR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

INTENTION TO:

TEST WATER SHUT-OFF  
FRACTURE TREAT  
SHOOT OR ACIDIZE  
REPAIR WELL  
(Other)

PULL OR ALTER CASING  
MULTIPLE COMPLETE  
ABANDON\*  
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  
FRACTURE TREATMENT  
SHOOTING OR ACIDIZING  
(Other)

REPAIRING WELL  
ALTERING CASING  
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

8/12/90 - Ran 5-1/2" casing as follows: 237 jts N-80, 17#, LT&C Used Casing set at 9473', cemented with 430 sxs Class "H" + .7 CF-14 + 5# salt + 1/4# Celloseal. Overdisplaced 1 bbl without bumping plug. No back flow or vacuum.

8/27/90 - Ran 4" liner set at 10,140' with top of liner at 9055'. Pumped 500 gallons Sure Bone, followed by 5 bbl fresh water. Spaced and cemented with 80 sacks Class "H" with 1% CF-14. Liner wiper plug down at 11:30 AM.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Engr. Oprns. Secretary

DATE 9/06/90

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE  
DATE

\*See Instructions on Reverse Side

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Wednesday, July 16, 2008 10:28 AM  
**To:** 'Adams, Norvella'  
**Cc:** Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Phillips, Dorothy, EMNRD  
**Subject:** Injection Application from Devon: Federal T #1 30-015-26404 Unit A Sec 12 T18S R27E

Hello Ms. Norvella Adams:

Application looks generally OK - but just a few things:

1) The Injection Data Sheet info has the wrong casing and cement sizes on it - I corrected this so it is OK now and is consistent with the wellbore diagram and the well file.

2) Send a "Post" conversion wellbore diagram - you can fax or mail it in.

3) Please ask your landman (Mr. Gray?) to tell you specifically who the affected parties (Rule 701B(2)) are in these areas of the 1/2 mile Area of Review:

in the SWSW of Sec 6 of 18S 28E

in the W/2 NW/4 of Sec 7 of 18S 28E

in Sec 1 T18S R27E (in the 1/2 mile AOR)

in Sec 12 T18S R27E (in the 1/2 mile AOR)

We have been asking applicants to break up the affected area and specifically provide ownership info for applications - something to keep in the file.

4) Your application says this injection well is for purposes of "waterflooding". If it is truly only for SWD purposes, let me know. If it really is for waterflooding - then please have an engineer send a writeup of which offsetting wells this injection may stimulate and why it may work.

5) Yesterday Devon showed one well needing additional financial assurance to be sent to Dorothy Phillips of this office. Today it appears fine - so Rule 40 compliance is OK.

For your reference, the following link shows Devon's wells and financial assurance list:

<http://www.emnrd.state.nm.us/OCD/OCDPermitting/Report/Stats/InactiveWellFinancialAssuranceReport.aspx?Operator=6137>

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

7/16/2008

**Jones, William V., EMNRD**

---

**From:** Miller, Janelle [Janelle.Miller@dvn.com]  
**Sent:** Wednesday, July 16, 2008 2:03 PM  
**To:** Adams, Norvella; Ortiz, Marcos; Muhlinghouse, Meg  
**Cc:** Jones, William V., EMNRD  
**Subject:** Correction: Devon Injection Application - Federal T #1

Correction to Item #3 below – Sec 12-18S-27E: (leasehold) Mewbourne Oil Company, (wellbore) Devon Energy

Janelle Miller  
Sr. Land Technician  
Western Land - Permian  
Devon Energy Production Company

---

**From:** Miller, Janelle  
**Sent:** Wednesday, July 16, 2008 2:54 PM  
**To:** Adams, Norvella; Ortiz, Marcos; Muhlinghouse, Meg  
**Cc:** 'william.v.jones@state.nm.us'  
**Subject:** Devon Injection Application - Federal T #1

Well Location Surface Owner: Bureau of Land Management, 620 East Greene St., Carlsbad, NM 88220.

See item #3 below – leasehold owner information in **bold/red**.

Janelle Miller  
Sr. Land Technician  
Western Land - Permian  
Devon Energy Production Company  
Phone: 405 228 8421  
Fax: 405 552 8113  
[janelle.miller@dvn.com](mailto:janelle.miller@dvn.com)

---

**From:** Adams, Norvella  
**Sent:** Wednesday, July 16, 2008 11:38 AM  
**To:** Ortiz, Marcos; Gray, Ken (OKC)  
**Subject:** FW: Injection Application from Devon: Federal T #1 30-015-26404 Unit A Sec 12 T18S R27E

Please see Will's notes below.

- 4) This is for SWD not waterflooding – I'll let him know.
- 2) I'll work on the post conversion wellbore diagram

Other than # 3 we should be ok.

Thanks,  
Norvella

---

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Wednesday, July 16, 2008 11:28 AM  
**To:** Adams, Norvella  
**Cc:** Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Phillips, Dorothy, EMNRD

7/16/2008

**Subject:** Injection Application from Devon: Federal T #1 30-015-26404 Unit A Sec 12 T18S R27E

Hello Ms. Norvella Adams:

Application looks generally OK - but just a few things:

**ANSWERS**

1) The Injection Data Sheet info has the wrong casing and cement sizes on it - I corrected this so it is OK now and is consistent with the wellbore diagram and the well file.

2) Send a "Post" conversion wellbore diagram - you can fax or mail it in.

3) Please ask your landman (Mr. Gray?) to tell you specifically who the affected parties (Rule 701B(2)) are in these areas of the 1/2 mile Area of Review:

in the SWSW of Sec 6 of 18S 28E : **Mewbourne Oil Company, 500 W. Texas, Ste. 1020, Midland, TX 79701**

in the W/2 NW/4 of Sec 7 of 18S 28E : **Morexco, Inc., P.O. Box 51208, Midland, TX 79710**

in Sec 1 T18S R27E (in the 1/2 mile AOR) : **Navajo Refining Company, P.O. Box 159, Artesia, NM 88210 and Mewbourne Oil Co.**

in Sec 12 T18S R27E (in the 1/2 mile AOR) : **Mewbourne Oil Co. (leasehold) and Devon Energy (Federal T #1 wellbore)**

We have been asking applicants to break up the affected area and specifically provide ownership info for applications - something to keep in the file.

4) Your application says this injection well is for purposes of "waterflooding". If it is truly only for SWD purposes, let me know. If it really is for waterflooding - then please have an engineer send a writeup of which offsetting wells this injection may stimulate and why it may work.

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<http://www.emnrd.state.nm.us/OCD/OCDPermitting/Report/Stats/InactiveWellFinancialAssuranceReport.aspx?Operator=6137>

Regards,  
William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

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7/16/2008

## Injection Permit Checklist (7/8/08)

Case \_\_\_\_\_ R- SWD 135 WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 7/16/08 UIC Qtr July or Sept  
 # Wells \_\_\_\_\_ Well Name: Federal T #1  
 API Num: (30-) 015-26404 Spud Date: 6/28/90 New/Old: N (UIC primacy March 7, 1982)  
 Footages 660 FNL/990 FEL Unit A Sec 12 Tsp 18S Rge 27E County EDDY  
 Operator: DEVON ENERGY PRODUCTION COMPANY, L.P. Contact NORVELLA ADAMS  
 OGRID: 6131 RULE 40 Compliance (Wells) OK (Finan Assur) NO  
 Operator Address: 20 N. BROADWAY, OKLAHOMA CITY, OK. 73102-8260

Current Status of Well: TAED after TRYING 2002 FROM MORROW TO UPPER WC.

Planned Work to Well: Conv.

Planned Tubing Size/Depth: 3 1/2"

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing _____ Surface	<u>17 1/2 13 3/8</u>	<u>400</u>	<u>425</u>	<u>CIRC</u>
Existing _____ Intermediate	<u>12 1/4 9 5/8</u>	<u>2604</u>	<u>1025</u>	<u>CIRC</u>
Existing _____ Long String	<u>8 3/4 7</u>	<u>9450?</u>	<u>1550430</u>	<u>4342</u>

DV Tool \_\_\_\_\_ Liner 4 1/2 (955-1014) Open Hole NO Total Depth 1014 PBTD \_\_\_\_\_

Well File Reviewed Y

Diagrams: Before Conversion L After Conversion \_\_\_\_\_ Elogs in Imaging File: ALL/DIL/SP/NEW/CBL

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	<u>6746 ± WC</u>	<u>(CISCO @ 7682)</u>	<u>1480</u>
Injection.....			
Interval TOP:	<u>7400</u>	<u>Lower WC</u>	<u>PSI Max. WHIP</u>
Injection.....			
Interval BOTTOM:	<u>8200</u>	<u>CISCO</u>	<u>NO</u> Open Hole (Y/N)
Below (Name and Top)	<u>8350</u>	<u>CANYON</u>	<u>NO</u> Deviated Hole?

Sensitive Areas: Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths 7-?

.... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 02 100-300 Wells(Y/N) NO Analysis Included (Y/N): NO Affirmative Statement ✓

Salt Water: Injection Water Types: SA, Y200 Analysis? yes combined

Injection Interval.....Water Analysis: Canyon Hydrocarbon Potential none - Tested

Notice: Newspaper(Y/N) ✓ Surface Owner BLM Mineral Owner(s) \_\_\_\_\_

RULE 701B(2) Affected Parties: Merbone/MOREXCO/Nash Ref Co.

Area of Review: Adequate Map (Y/N) ✓ and Well List (Y/N) \_\_\_\_\_

Active Wells 2 Num Repairs \_\_\_\_\_ Producing in Injection Interval in AOR \_\_\_\_\_

..P&A Wells 0 Num Repairs 0 All Wellbore Diagrams Included? \_\_\_\_\_

Questions to be Answered:

WF Purpose = MORE EXPLANATION

Send Post CONV. WBD.

Segment ownership/Finan ASSUR (Rule 40)

Required Work on This Well: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_