

DATE IN 06/05/13	SUSPENSE	ENGINEER PG	LOGGED IN 06-05-2013	TYPE SWB	APP NO. AXK 131565758
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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 SWD-972 Issued for well 3/16/2005

- [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.

Stephanie A. Porter
Print or Type Name

Signature

Operations Technician
Title

Stephanie.Porter@dnv.com
e-mail Address

Date

RECEIVED OOD
2013 JUN 5 PM 12:33

06/04/2013

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: _____ 333 W. Sheridan, Oklahoma City, Oklahoma 73102 _____
CONTACT PARTY: _____ Stephanie A. Porter _____ PHONE: _____ 405-552-7802
- 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: _____ Stephanie A. Porter _____ TITLE: _____ Operations Technician
- SIGNATURE: _____ DATE: _____ 08/24/2013
- E-MAIL ADDRESS: _____ Stephanie.Porter@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.

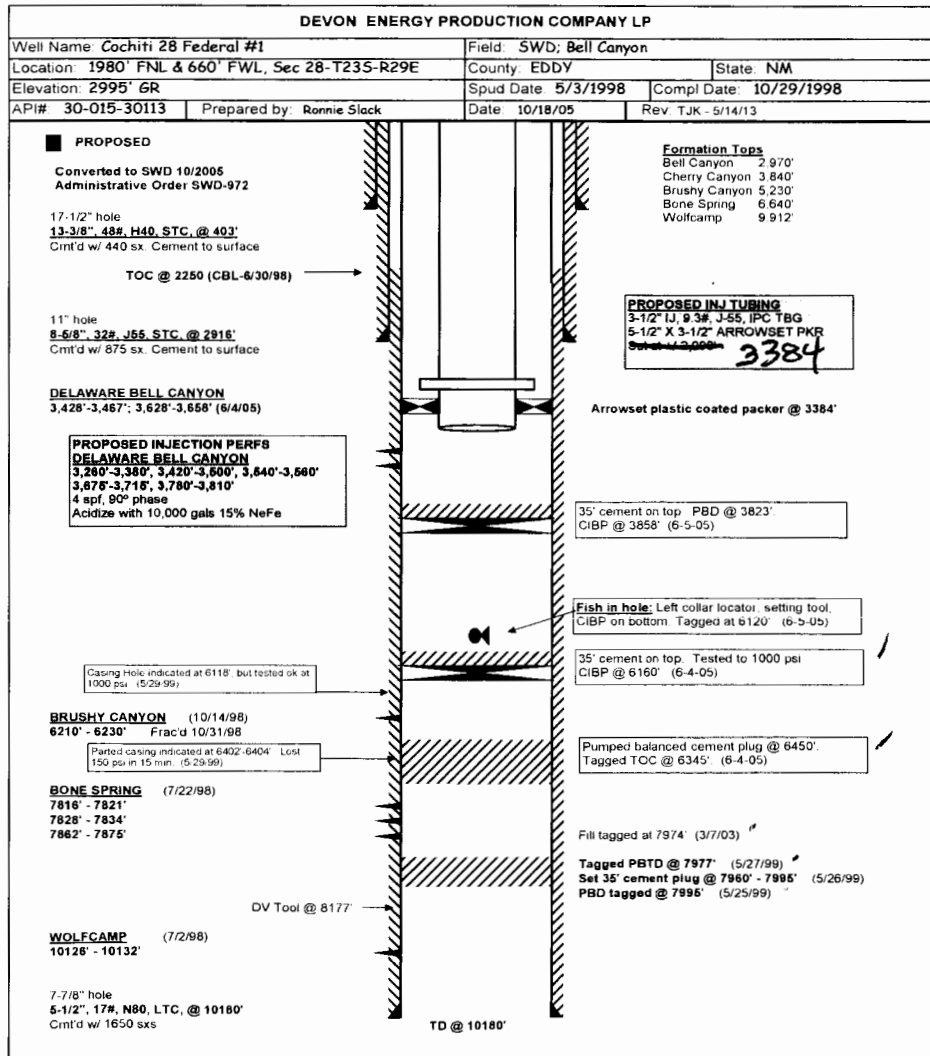
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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.

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: Cochiti 28 Federal #1WELL LOCATION: 1980' FNL & 660' FWL E Sec 28 T23S R29E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8", 48# @ 403'Cemented with: 440 sx. or ft³Top of Cement: Surface Method Determined: Circ. cementIntermediate CasingHole Size: 11" Casing Size: 8-5/8", 32# @ 2916'Cemented with: 875 sx. or ft³Top of Cement: Surface Method Determined: Circ cementProduction CasingHole Size: 7-7/8" Casing Size: 5-1/2", 17# @ 10180'Cemented with: 1650 sx. or ft³Top of Cement: 2250' Method Determined: CBL LogTotal Depth: 10,180'Injection Interval (Perforated)3260' feet to 3810'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 3-1/2", 9.3# Lining Material: Internal Plastic CoatedType of Packer: 5-1/2" x 3-1/2" Arrow Set PackerPacker Setting Depth: ~~2,990'~~ Diagram - 3384

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 Oil Well

2. Name of the Injection Formation: SWD; Bell Canyon

3. Name of Field or Pool (if applicable): Current Pool Designation - SWD; Bell Canyon

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.

Perforated Intervals for the Cochiti 28 Federal #1 are as follows:

Wolfcamp: 10126' – 10132' (Isolated, May-1999 with cement from 7977' to 7995')

Bone Spring: 7816' – 7875' (Isolated, June-2005 with cement from 6345' to 6450')

Brushy Canyon: 6210' – 6230' (Isolated, June-2005, CIBP @ 6160' + 35' cement on top. CIBP @ 3858' +35' cement on top.

Delaware Bell Canyon: 3428' – 3658' (Perforated, June 2005 SWD-972)

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

There are no productive oil / gas zones in the area of review above the proposed injection interval at 3260' - 3810'. The next lower productive oil zone in the area of review is the Brushy Canyon Formation (top at 5230'). The Delaware Bell Canyon is currently perforated in the in the Cochiti 28 Federal 1 at 3428-3467' & 3628-3658'.

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Cochiti 28 Fed #1		Field: Laguna Salado Bone Spring/Harroun Ranch Delaware NE	
Location: 1980' FNL & 660' FWL, Sec 28-T23S-R29E		County: EDDY	State: NM
Elevation: 2995' GR		Spud Date: 5/3/1998	Compl Date: 10/29/1998
API#: 30-015-30113	Prepared by: Ronnie Slack	Date: 01/17/05	Rev:

PROPOSED SWD CONVERSION

17-1/2" hole
13-3/8", 48#, H40, STC, @ 493'
 Cmt'd w/ 440 sx. Cement to surface

TOC @ 2250 (CBL-6/30/98) →

11" hole
8-5/8", 32#, J55, STC, @ 2916'
 Cmt'd w/ 875 sx. Cement to surface

Proposed Injection Perfs
DELAWARE BELL CANYON
 3428' - 3467'
 3628' - 3658'

Casing Hole indicated at 6118', but tested ok at 1000 psi. (5/29/99)

BRUSHY CANYON (10/14/98)
 6210' - 6230' Frac'd 10/31/98

Parted casing indicated at 6402'-6404'. Lost 150 psi in 15 min. (5/29/99)

BONE SPRING (7/22/98)
 7816' - 7821'
 7828' - 7834'
 7862' - 7875'

DV Tool @ 8177' →

WOLF CAMP (7/2/98)
 10126' - 10132'

7-7/8" hole
5-1/2", 17#, N80, LTC, @ 10180'
 Cmt'd w/ 1650 sx

TD @ 10180'

Formation	Top
Bell Canyon	2970'
Brushy Canyon	5230'
Bone Spring	6640'
Wolfcamp	9912'

Proposed
 2-7/8", 6.5#, Internal Plastic Coated Tubing

Proposed
 5-1/2" Lok Set Packer @ 3378'

← Set CIBP
 closer to Bottom
 Perf

Proposed
 Set CIBP @ 6100' & cap w/35' cement

Proposed
 Set 100' balanced cement plug from 6350' to 6450'

Fill tagged at 7974' (3/7/03)

Tagged PBD @ 7977' (5/27/99)
 Set 35' cement plug @ 7960' - 7995' (5/26/99)
 PBD tagged @ 7995' (5/25/99)

Cochiti 28 Federal #1
APPLICATION FOR INJECTION
Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Cochiti 28 Federal, Lease Serial#: NMNM 86024
Well No #1
Location 1980' FNL & 660' FWL
Sec, Twn, Rnge Sec 28, T23S-R29E, Unit E
Cnty, State Eddy County, New Mexico
- (2) Casing 13-3/8", 48#, H40, STC, @ 403' in 17-1/2" hole. Cmt'd w/ 440 sxs.
TOC @ surface. Cement circulated.

8-5/8", 32#, J55, STC, @ 2916' in 11" hole. Cmt'd w/ 875 sxs.
TOC @ surface. Cement circulated.

5-1/2", 17#, N80, LTC, @ 10180'. Cmt'd w/ 1650 sxs.
TOC @ 2250', determined by Cement Bond Log
- (3) Injection Tubing 3-1/2", 9.3#, IPC tubing run to ~~2990'~~ 3384' - Attached Diagram
- (4) Packer 5-1/2"x 3-1/2" Arrowset packer @ ~~2990'~~ 3384' - Diagram

B. Other Well Information

- (1) Injection Formation: Delaware Bell Canyon (currently assigned)
Field Name: SWD; Bell Canyon
- (2) Injection Interval: 3260' - 3810' (cased hole, perforated)
- (3) Original Purpose of Wellbore:

The Cochiti 28 Federal #1 was spud on May 3, 1998 and was drilled for the purpose of oil and gas production. The well was originally completed in the Wolfcamp at 10126' - 10132' in July 1998. The Wolfcamp was abandoned in May 1999. The Bone Spring was completed in July 1998, abandoned in June 2005. The Brushy Canyon was completed in October 1998, abandoned in June 2005. The Delaware Bell Canyon was perfed at 3428' - 3467' and 3628' - 3658' in June 2005 for SWD conversion; under Administrative Order SWD-972.

(4) Other perforated intervals:

Delaware Bell Canyon: 3428' - 3658' (Perfs are open)
Brushy Canyon: 6210' - 6230' (Abandoned with CIBP @ 6160' + 35' cmt & CIBP 3858' + 35' cmt)
Bone Spring: 7816' - 7875' (Abandoned with cement plug from 6345 - 6450')
Wolfcamp: 10126' - 10132' (abandoned with cement plug from 7977' to 7995')

(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.

There are no productive oil / gas zones in the area of review above the proposed injection interval at 3260' - 3810'. The next lower productive oil zone in the area of review is the Brushy Canyon Formation (top at 5230'). The Delaware Bell Canyon is currently perforated in the Cochiti 28 Federal #1 at 3428' - 3467' and 3628' - 3658'.

Cochiti 28 Federal #1
APPLICATION FOR INJECTION
Form C-108 Section VII to XII

VII Attach data on the proposed operation, including:

- (1) Proposed average injection rate: 5000 BWPD
Proposed maximum injection rate: 10000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 326 psi
Proposed max injection pressure: 652 psi
- (4) The proposed injection fluid is produced water from the Delaware that will be re-injected into the Delaware Bell Canyon formation.
- (5) Disposal zone formation water analysis: Attached is a water analysis for Delaware produced waters from the Spud 16 State #1, that will be injected into the Cochiti 28 Federal #1

VIII The proposed injection interval is located in the Delaware Bell Canyon formation. This Permian age reservoir is approximately 550 feet thick in this area. The injection interval is from 3260' - 3810'. The Rustler formation is a supply for fresh water in this area. This formation is contained behind the surface casing that is set at a depth of 403'. The surface casing is cemented to surface.

IX The proposed injection interval will acidized with 10000 gallons 15% NeFe.

X Logging & test data have previously been submitted to the OCD.

XI No fresh water wells are reported within one mile of proposed conversion well. This information per New Mexico Office of the State Engineer is attached. ✓

XII 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. ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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

5. Lease Serial No.
NMNM 86024

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Devon Energy Production Co., LP

3a. Address
333 West Sheridan
OKC, OK 73102

3b. Phone No. (include area code)
(405)-552-7802

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28-T23S-R29E
1980' FNL & 660' FWL

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Cochiti 28 Federal 1

9. API Well No.
30-015-30113

10. Field and Pool or Exploratory Area
SWD; Bell Canyon (96769)

11. Country or Parish, State
Eddy County, NM

12. CHECK THE APPROPRIATE BOX(ES) 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 checked="" type="checkbox"/> Other Expand Existing
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Injection Interval
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	to 3,260 - 3,810'

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

PROPOSED SWD CONVERSION: Devon is filing Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division in Santa Fe, New Mexico. Proposed SWD conversion is in the existing Bell Canyon formation perforated from 3,260' - 3,810'; expand existing injection interval.

Devon respectfully requests permission to improve the injection capacity of the Cochiti 28 Fed 1 SWD located at Section 28 T23S-R29E by performing the following work.

The well is currently perforated in the Bell Canyon member of the Delaware Mountain group at 3,428'-3,467' and 3,628'-3,658'. The current injection string is 2-7/8", 6/5# IPC tubing set at 3,384' with a 5-1/2" x 2-7/8" arrowset packer.

Devon would like to add perforations with in the Bell Canyon member at 3,260'-3,380', 3,420'-3,500', 3,540'-3,560', 3,565'-3,660', 3,675'-3,715', and 3,780'-3,810', at 4 SPF. Acid stimulate the new and existing perforations. Replace the existing 2-7/8" injection string with new 3-1/2" integral joint IPC tubing and packer set at +/-2,990'. Perform a step rate test. If the injectivity is not satisfactory operator will consider performing a small hydraulic fracture to the injection interval, details of which will be submitted in a separate NOI sundry.

(Current and Proposed Wellbore Schematics Attached)

COPY

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

Name (Printed/Typed)
Stephanie A. Porter

Title Operations Technician

Signature

Date

2/6/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Office

Conditions of approval, if any, are attached. Approval of this notice 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.

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.

(Instructions on page 2)

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Cochiti 28 Federal #1		Field: SWD; Bell Canyon	
Location: 1980' FNL & 660' FWL, Sec 28-T23S-R29E		County: EDDY	State: NM
Elevation: 2995' GR		Spud Date: 5/3/1998	Compl Date: 10/29/1998
API#: 30-015-30113	Prepared by: Ronnie Slack	Date: 10/18/05	Rev: TJK - 5/14/13

PROPOSED

Converted to SWD 10/2005
Administrative Order SWD-972

17-1/2" hole
13-3/8", 48#, H40, STC, @ 403'
Cmt'd w/ 440 sx. Cement to surface

TOC @ 2250 (CBL-6/30/98)

11" hole
8-5/8", 32#, J55, STC, @ 2916'
Cmt'd w/ 875 sx. Cement to surface

DELAWARE BELL CANYON
3,428'-3,467'; 3,628'-3,658' (6/4/05)

PROPOSED INJECTION PERFS
DELAWARE BELL CANYON
3,260'-3,380', 3,420'-3,500', 3,540'-3,560'
3,675'-3,715', 3,780'-3,810'
4 spf, 90° phase
Acidize with 10,000 gals 15% NeFe

Casing Hole indicated at 6118', but tested ok at 1000 psi. (5/29/99)

BRUSHY CANYON (10/14/98)
6210' - 6230' Frac'd 10/31/98

Parted casing indicated at 6402'-6404'. Lost 150 psi in 15 min. (5/29/99)

BONE SPRING (7/22/98)
7816' - 7821'
7828' - 7834'
7862' - 7875'

DV Tool @ 8177'

WOLFCAMP (7/2/98)
10126' - 10132'

7-7/8" hole
5-1/2", 17#, N80, LTC, @ 10180'
Cmt'd w/ 1650 sx

TD @ 10180'

Formation Tops

Bell Canyon 2,970'
Cherry Canyon 3,840'
Brushy Canyon 5,230'
Bone Spring 6,640'
Wolfcamp 9,912'

PROPOSED INJ TUBING

3-1/2" IJ, 9.3#, J-55, IPC TBG
5-1/2" X 3-1/2" ARROWSET PKR
Set at +/-2,990'

Arrowset plastic coated packer @ 2990'

35' cement on top. PBD @ 3823'.
CIBP @ 3858' (6-5-05)

Fish in hole: Left collar locator, setting tool,
CIBP on bottom. Tagged at 6120'. (6-5-05)

35' cement on top. Tested to 1000 psi.
CIBP @ 6160'. (6-4-05)

Pumped balanced cement plug @ 6450'.
Tagged TOC @ 6345'. (6-4-05)

Fill tagged at 7974' (3/7/03)

Tagged PBTD @ 7977' (5/27/99)
Set 35' cement plug @ 7960' - 7995' (5/26/99)
PBD tagged @ 7995' (5/25/99)

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Cochiti 28 Federal #1		Field: SWD; Bell Canyon	
Location: 1980' FNL & 660' FWL, Sec 28-T23S-R29E		County: EDDY	State: NM
Elevation: 2995' GR		Spud Date: 5/3/1998	Compl Date: 10/29/1998
API#: 30-015-30113	Prepared by: Ronnie Slack	Date: 10/18/05	Rev:

■ CURRENT

Converted to SWD 10/2005
Administrative Order SWD-972

17-1/2" hole
13-3/8", 48#, H40, STC, @ 403'
Cmt'd w/ 440 sx. Cement to surface

TOC @ 2250 (CBL-6/30/98) →

11" hole
8-5/8", 32#, J55, STC, @ 2916'
Cmt'd w/ 875 sx. Cement to surface

INJECTION PERFS
DELAWARE BELL CANYON (perfed 6-4-05)
3428'-3467'
3628'-3658'
4 spf, 90° phase
6-4-05: acidized w/3000 gals 7.5% NeFe
6-6-05: fraced w/120K# 12/20 brown sand

Casing Hole indicated at 6118', but tested ok at 1000 psi. (5/29/99)

BRUSHY CANYON (10/14/98)
6210' - 6230' Frac'd 10/31/98

Parted casing indicated at 6402'-6404'. Lost 150 psi in 15 min. (5/29/99)

BONE SPRING (7/22/98)
7816' - 7821'
7828' - 7834'
7862' - 7875'

WOLFCAMP (7/2/98)
10126' - 10132'

7-7/8" hole
5-1/2", 17#, N80, LTC, @ 10180'
Cmt'd w/ 1650 sxs

DV Tool @ 8177' →

TD @ 10180'

Formation	Top
Bell Canyon	2970'
Brushy Canyon	5230'
Bone Spring	6640'
Wolfcamp	9912'

2-7/8", 6.5#, IPC Tubing

Arrowset plastic coated packer @ 3384'

35' cement on top. PBD @ 3823'.
CIBP @ 3858' (6-5-05)

Fish in hole: Left collar locator, setting tool,
CIBP on bottom. Tagged at 6120'. (6-5-05)

35' cement on top. Tested to 1000 psi.
CIBP @ 6160'. (6-4-05)

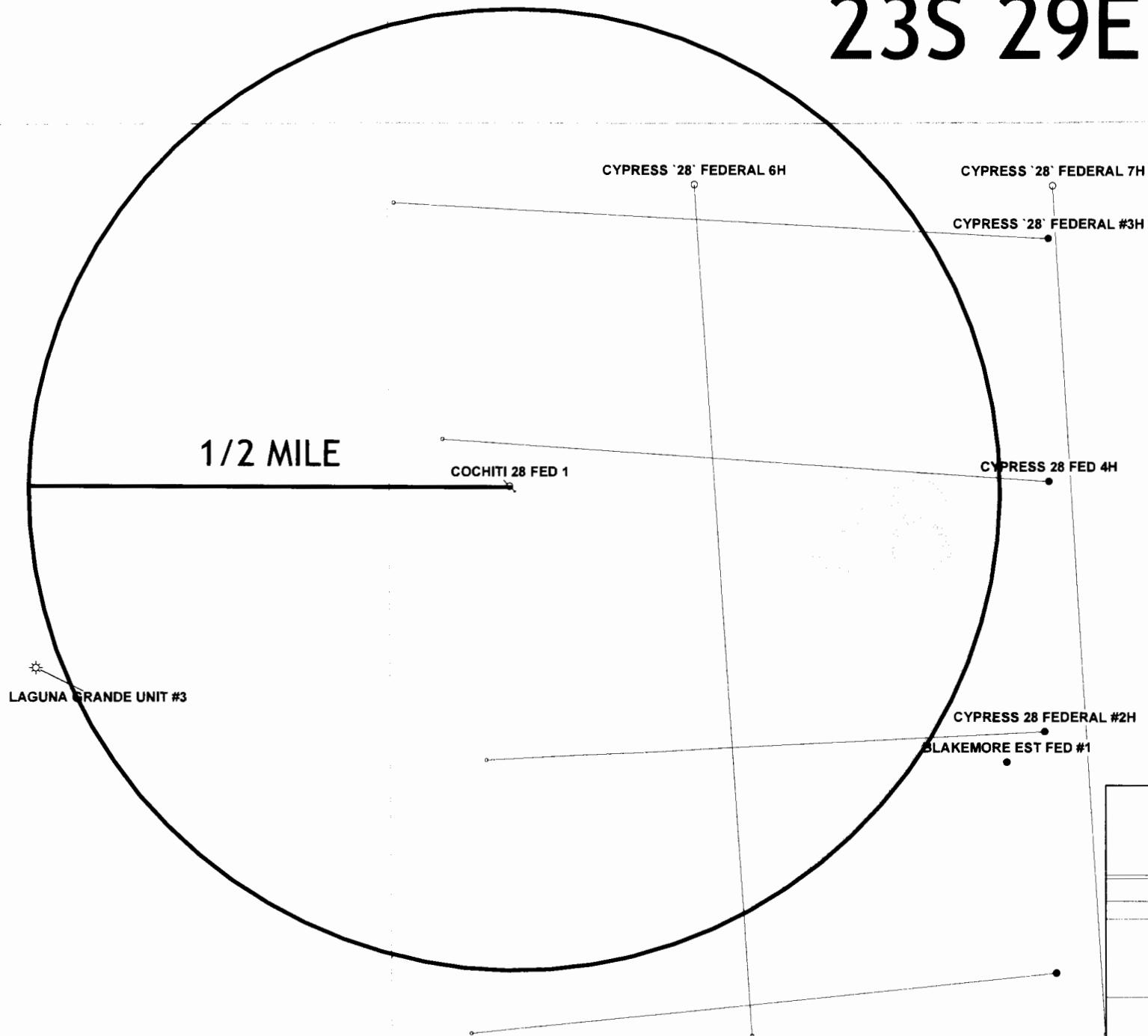
Pumped balanced cement plug @ 6450'.
Tagged TOC @ 6345'. (6-4-05)

Fill tagged at 7974' (3/7/03)

Tagged PBTD @ 7977' (5/27/99)
Set 35' cement plug @ 7960' - 7995' (5/26/99)
PBD tagged @ 7995' (5/25/99)

23S 29E

IMC 21 FED COM 2H



devon

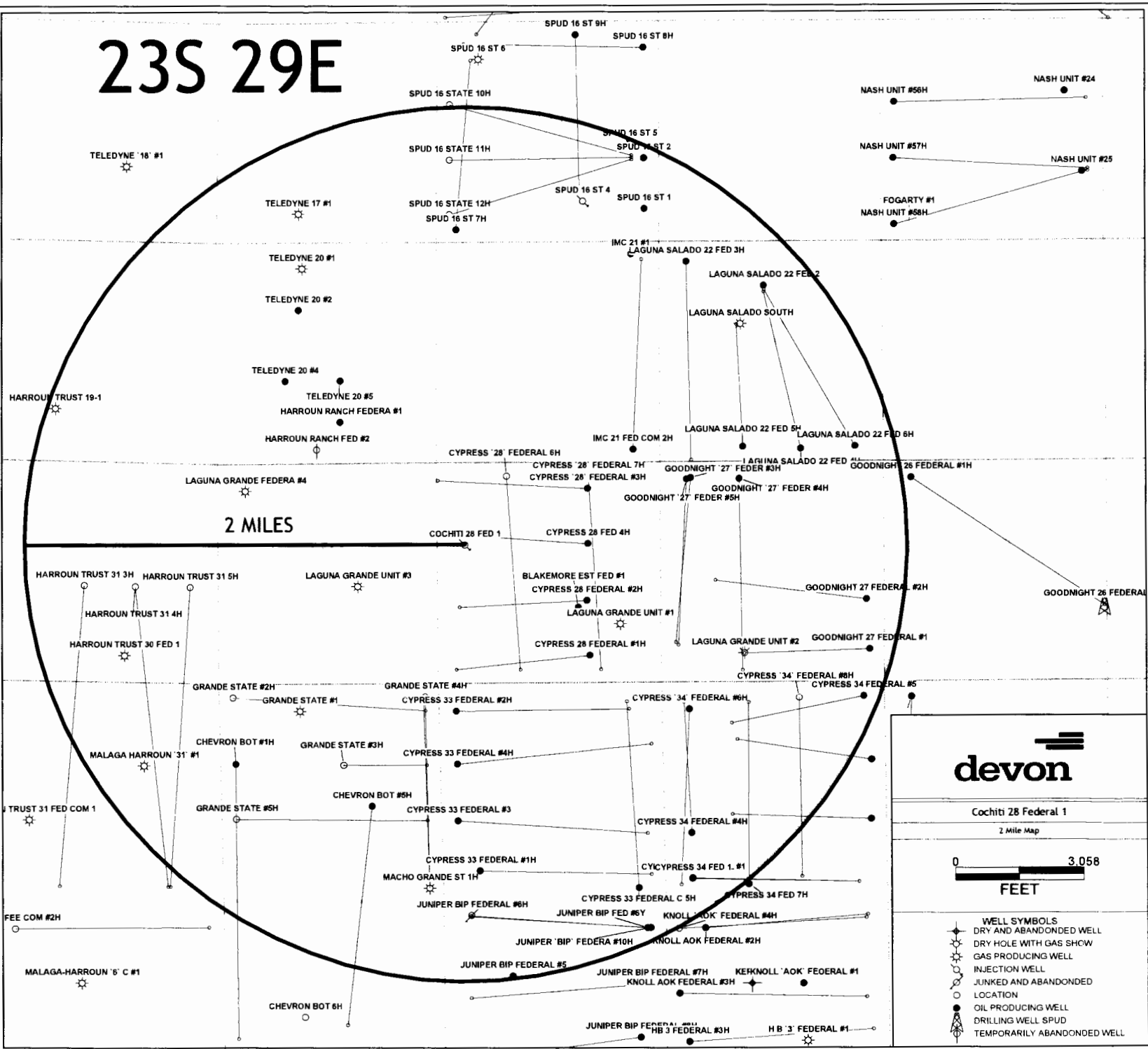
Cochiti 28 Federal 1

1/2 Mile Map



WELL SYMBOLS
☼ GAS PRODUCING WELL
○ INJECTION WELL
● OIL PRODUCING WELL

23S 29E



C108 ITEM VI--Well Tabulation in Review Area

DEVON ENERGY PRODUCTION COMPANY, LP

Proposed Inj Well: Cochiti 28 Federal #1 - Application to inject salt water

Proposed Formation: Delaware Bell Canyon

Proposed Interval: 3260' - 3810'

Operator	Well Name	API NO	County	Sec Twn Range	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Casing Program	TOC
Devon Energy Prod Co LP	Cochiti 28 Federal #1	30-015-30113	Eddy	28 T23S R29E	Oil	Active	05/03/98	10/29/98	10180	7977	Brushy Canyon Bone Spring Wolfcamp	6210'-6230' (open) 7816'-7875' (open) 10126'-10132' (abdn)	13-3/8", 48#, H40 @ 403', w/440 sxs 8-5/8", 32#, J55 @ 2916', w/ 875 sxs 5-1/2", 17# @ 10180', w/1650 sxs	Surf (circulated) Surf (circulated) 2250' (CBL)
Oxy, U.S.A., Inc.	Cypress 28 Federal 3H	30-015-38287	Eddy	28 T23S R29E	Oil	Active	01/10/11	03/05/11	10747	10650	Bone Spring	7726'-10605'	13-3/8", 48#, H40 @ 381', w/550 sxs 9-5/8", 40#, J55 @ 2945', w/940 sxs 5-1/2", 17#, L-80 @ 10180', w/3360 sxs	Surf (circulated) Surf (circulated) Surf (circulated)
Oxy, U.S.A., Inc.	Cypress 28 Federal 2H	30-015-37331	Eddy	28 T23S R29E	Oil	Active	02/18/10	05/04/10	10272	10181	Bone Spring	8075-10052	13-3/8", 48#, H40 @ 425', w/460 sxs 9-5/8", 47#, L80 @ 2922', w/920 sxs 5-1/2", 17#, N-80 @ 10262', w/2480 sxs	Surf (circulated) Surf (circulated) 1130' (CBL)
Oxy, U.S.A., Inc.	Cypress 28 Federal 4H	30-015-39330	Eddy	28 T23S R29E	Oil	Active	10/04/11	11/19/11	10765	10511	Bone Spring	7895-10477	16", 75#, J-55 @ 305', w/710 sxs 11-3/4", 47#, J-55 @ 2910', w/1235 sxs 5-1/2", 17#, L-80 @ 10765', w/3850 sxs	Surf (circulated) Surf (circulated) Surf (circulated)

New Mexico Office of the State Engineer
Well Reports and Downloads
Eddy County, NM T23S, R29E, SEC, 20,21,22,27,28,29,32,33

Cochiti 28 Federal #1
Application for Injection

WELL / SURFACE DATA REPORT

1/17/2005

DB File Nbr	Use	Diversion	Owner	Well Number	Source	Tw	Rng	Sec	q	q	q	q	X	Y	UTM_Zone	Easting	Northing	Start Date	Finish Date	Depth Well	Depth (in feet) Water
C 01627	EXP	3	EXXON CORPORATION	C 01627	Shallow	23S	29E	28	4	4	1				13	595696	3570759	11/1/1975	11/4/1975	170	
C 02613	EXP	0	UNITED SALT CORPORATION	C 02613		23S	29E	20	2	4	4				13	594249	3572975			400	
C 02707		3	IMC KALIUM	C 02707	Shallow	23S	29E	28	2						13	595581	3571667	5/27/2000	6/2/2000	150	
C 02720	MON	0	JOHN WOZNICWICZ	C 02720		23S	29E	21	1	2					13	594957	3573489			150	
C 02721	MON	0	JOHN WOZNICWICZ	C 02721		23S	29E	21	3	2					13	594961	3572679			150	
C 02797	MON	0	IMC	C 02797		23S	29E	22	3	2					13	596586	3572694			200	
C 03057	EXP	0	UNITED SALT CORPORATION	C 03057 EXPLORE		23S	29E	21	1	4					13	594651	3573384			150	

Record Count: 7



Water Analysis

Date: 11-Jan-05

2708 West County Road, Hobbs NM 88240

Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Company	Well Name	County	State
Devon	Spud 16 State #1	Lea	New Mexico

Sample Source	Sample	Sample #	1
Formation	Depth		
Specific Gravity	1.195	SG @ 60 °F	1.196
pH	5.96	Sulfides	Absent
Temperature (°F)	65	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	73,985	in PPM	61,860
Calcium	in Mg/L	34,000	in PPM	28,428
Magnesium	in Mg/L	5,040	in PPM	4,214
Soluable Iron (FE2)	in Mg/L	50.0	in PPM	42

Anions

Chlorides	in Mg/L	188,000	in PPM	157,191
Sulfates	in Mg/L	550	in PPM	460
Bicarbonates	in Mg/L	78	in PPM	65
Total Hardness (as CaCO3)	in Mg/L	106,000	in PPM	88,629
Total Dissolved Solids (Calc)	in Mg/L	301,703	in PPM	252,260
Equivalent NaCl Concentration	in Mg/L	254,733	in PPM	212,988

Scaling Tendencies

*Calcium Carbonate Index 2,654,720

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

*Calcium Sulfate (Gyp) Index 18,700,000

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 rw= .040@63f

Report # 1774

1088-0000

15 JUL 2013

First-Class Mail
Postage and Fees Paid
USPS
Permit No. G-10

* Sender: Please print your name, address, and ZIP+4 in this box

**Devon Energy Corporation
Operations Engineering
Stephanie Porter – DEC 31.326
333 W. Sheridan Avenue
OKC, OK 73102**

SENDER: COMPLETE THIS SECTION

- Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mosaic Potash Carlsbad, Inc.
P.O. Box 71
Carlsbad, NM 88221

Attn: Tom Marchese

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

□ Agent

☐ Addressee

B. Received by (*Printed Name*)

Rheanna Garcia

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type

☐ Certified Mail☐ Express Mail

Registered

☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number
(Transfer from service label)

7006 2760 0003 6282 6449

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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:

May 21

2013

That the cost of publication is **\$57.41** and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

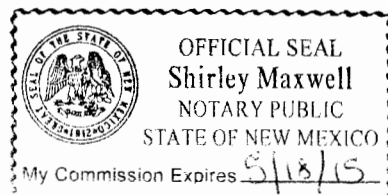
Subscribed and sworn to before me this

21st day of May, 2013

Shirley Maxwell

My commission Expires on May 18, 2015

Notary Public



May 21, 2013

Legal Notice

Devon Energy Production Company, LP, 333 West Sheridan Avenue, 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 (expanding existing injection interval). The well is the Cochiti 28 Federal #1, located 1980' FNE & 660' FWL, Section 28, Township 23 South, Range 29 East, in Eddy County, New Mexico. The Cochiti 28 Federal #1 will be used for

salt water disposal. Disposal waters from the Delaware will be injected into the Delaware Bell Canyon formation at a depth of 3260' to 3810', with a maximum pressure of 652 psi and a maximum rate of 10000 BWPD.

All interested parties opposing the aforementioned must file objections or request for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Trevor Klaassen at (405) 552-5069.

Application For Injection
Devon Energy Prod Co LP
Cochiti 28 Federal #1
Sec 28, T23S-R29E, Eddy County, NM
Form C-108 Section XIV--Proof of Notice

Proof of Notice to Surface Owner

United States Department of Interior
Bureau of Land Management
620 East Greene Street
Carlsbad, NM 88220

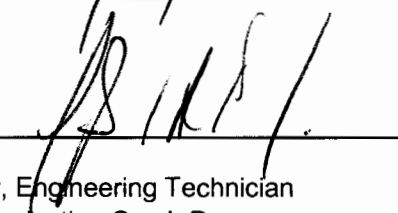
Certified Mail Receipt No. 7008-1830-0003-1986-6374

Records indicate that the Bureau of Land Management is the owner of surface acreage for the Cochiti 28 Federal #1. A copy of Devon Energy Production Co., LP's application for salt water injection in the Cochiti 28 Federal #1 has been sent by certified mail to the Bureau of Land Management in Carlsbad, NM.

Date Mailed: _____

08/04/2013

Signature: _____



Stephanie Porter, Engineering Technician
Devon Energy Production Co., L.P.
333 W. Sheridan Blvd.
Oklahoma City, OK 73102

Date: _____

08/04/2013

Application For Injection
Devon Energy Prod Co LP
Cochiti 28 Federal #1
Form C-108 Section XIV

Proof of Notice to Leasehold Operators

BTA Oil Producers
104 S. Pecos Street
Midland, Texas 79701

Certified Mail Receipt No. 7008-1830-0003-1986-6411

Chevron, USA, Inc.
1400 Smith Street
Houston, Texas 77002

Certified Mail Receipt No. 7008-2760-0003-6282-6148

Rubicon Oil & Gas, L.P.
400 West Illinois, Suite 500
Midland, Texas 79701

Certified Mail Receipt No. 7006-2760-0003-6282-6388

Liberty Energy Corporation
175 Berkeley, 8th Floor
Boston, MA 02116

Certified Mail Receipt No. 7008-1830-0003-1986-6398

Oxy, U.S.A. Inc.
P.O. Box 4294
Houston, Texas 77210

Certified Mail Receipt No. 7006-2760-0003-6282-6425

ExxonMobil Corporation
P.O. Box 4358
Houston, Texas 77210

Certified Mail Receipt No. 7008-1830-0003-1986-6404

Cimarex Energy Co.
600 N. Marienfield, Suite 600
Midland, Texas 79701

Certified Mail Receipt No. 7006-2760-0003-6282-6401

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 Cochiti 28 Federal #1.

Date Mailed: 06/04/2013

Signature: [Signature]

Date: 06/04/2013

Stephanie Porter, Engineering Technician
Devon Energy Production Co., L.P.
333 W. Sheridan Blvd.
Oklahoma City, OK 73102

17



16

15

Surface Owner
Cochiti 28 Federal #1 SWD

20

21

22



Cochiti 28 Fed #1 SWD
Surface: BLM



28

27

23S 29E

29

32

33

Laguna

Laguna

17



16

Leasehold Owners
1/2 Mile Radius
Cochiti 28 Federal #1 SWD

20

21

22

BTA Oil Producers

Chevron, U.S.A., Inc.
Rubicon Oil & Gas
Liberty Energy

Cimarex Energy Co.
ExxonMobil

23S 29E

29



Cochiti 28 Fed #1 SWD

Oxy, U.S.A., Inc.
ExxonMobil

27

28



32

33



Cochiti 28 Federal #1 SWD
Section 28-T23S-R29E
Eddy County, NM

Surface Owner

United States Department of the Interior
Bureau of Land Management
620 East Greene Street
Carlsbad, NM 88220

Leasehold Owners ½ mile Radius

Section 20-T23S-R29E

SE/4 SE/4

BTA Oil Producers
104 S. Pecos Street
Midland, TX 79701

Section 21-T23S-R29E

S/2 SW/4

Chevron, U.S.A., Inc.
1400 Smith Street
Houston, TX 77002

Rubicon Oil & Gas
400 West Illinois, Suite 500
Midland, TX 79701

Liberty Energy Corporation
175 Berkely, 8th Floor
Boston, MA 02116

Section 28-T23S-R29E

W/2

Oxy, U.S.A, Inc.
P.O. Box 4294
Houston, TX 77210

ExxonMobil Corporation
P.O. Box 4358
Houston, TX 77210

Section 2-T23S-R29E

E/2

Cimarex Energy Co.

600 N. Marienfeld, Suite 600

Midland, TX 79701

ExxonMobil Corporation

P.O. Box 4358

Houston, TX 77210



Devon Energy Corporation
333 W. Sheridan Avenue
Oklahoma City, Oklahoma 73102

June 4th, 2013

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

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API#: 30-015-30113
Lease: NMNM 86024
Eddy County, NM
Section 28, T23S, R29E

Gentlemen:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. Devon wishes to take produced waters from the Delaware sand and re-inject back into the Delaware sand for salt water disposal purposes using the Cochiti 28 Federal #1. The existing injection interval will be expanded from 3428' – 3658' to 3260' – 3810'.

A copy of this application has been filed with the Oil Conservation Division, Artesia, NM. Leasehold acreage owners and the surface land owner have been notified with this application by certified mail. The Bureau of Land Management, Carlsbad, NM has been notified with a sundry-notice of intent along with this application.

If you need additional information or have any questions, please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie A. Porter". The signature is stylized with large, flowing letters and a prominent vertical stroke at the end.

Stephanie A. Porter
Engineering Technician

SP/sp

Enclosure
cc: OCD, Artesia Office



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

BTA Oil Producers
104 S. Pecos Street
Midland, Texas 79701

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

Dear Leasehold Operator:

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Objections to this work or requests for a hearing must be filed with the:

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

within 15 days from the date this application was mailed.

If you have any questions please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure

devon

Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

Chevron, USA, Inc. .
1400 Smith Street
Houston, Texas 77002

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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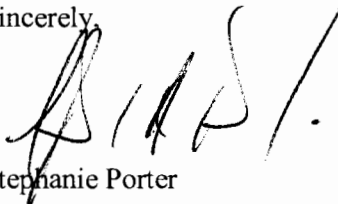
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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

Cimarex Energy Co.
600 N. Marienfield, Suite 600
Midland, Texas 79701

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Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

ExxonMobil Corporation
P.O. Box 4358
Houston, Texas 77210

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

Liberty Energy Corporation
175 Berkeley, 8th Floor
Boston, MA 02116

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

Oxy, U.S.A., Inc.
P.O. Box 4358
Houston, Texas 77210

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

Rubicon Oil & Gas, L.P.
400 West Illinois, Suite 500
Midland, Texas 79701

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

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Stephanie Porter
Engineering Technician

SP/sp
Enclosure



Devon Energy Corporation
333 W. Sheridan Avenue
Oklahoma City, Oklahoma 73102

June 4th, 2013

Oil Conservation Division
811 S. First Street.
Artesia, New Mexico 88210

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API#: 30-015-30113
Lease: NMNM 86024
Eddy County, NM
Section 28, T23S, R29E

Dear Conservation Division-Artesia District Office:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. The original application has been filed with the Oil Conservation Santa Fe Office.

Devon wishes to take produced waters from the Delaware sand and re-inject back into the Delaware sand for salt water disposal purposes using the Cochiti 28 Federal #1. The existing injection interval will be expanded from 3428' – 3658' to 3260' – 3810'.

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If you need additional information or have any questions, please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie A. Porter". The signature is stylized with a large, looped "S" and a long, sweeping horizontal stroke at the end.

Stephanie A. Porter
Engineering Technician

SP/sp

Enclosure
cc: OCD, Artesia Office



Devon Energy Corporation
333 W. Sheridan
Oklahoma City, Oklahoma 73102-8260

June 4th, 2013

United States Department of Interior
Bureau of Land Management
620 East Greene Street
Carlsbad, NM 88220

RE: Form C-108, Application for Authorization to Inject
Cochiti 28 Federal #1: API # 30-015-30113
Eddy County, NM
Section 28, T23S, R29E

Dear Surface Land Owner:

Please find attached Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject. Devon is submitting this application to the Oil Conservation Division in New Mexico. Devon's application proposes to take produced waters from the Delaware sand and re-inject back into the Delaware sand for salt water disposal purposes utilizing their Cochiti 28 Federal #1 well. The existing injection interval will be expanded from 3428' – 3658' to 3260' – 3810'. This letter is to serve as notification to the surface land owner on which the injection well is located, of our intent to do this work as required by Form C-108.

Objections to this work or requests for a hearing must be filed with the:

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

within 15 days from the date this application was mailed.

If you have any questions please contact Trevor Klaassen (405)-552-5069 or myself at (405)-552-7802.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie A. Porter".

Stephanie A. Porter
Engineering Technician

SP/sp

Enclosure

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

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOC District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Devon Energy Production Co., LP OGRID #: 6137
Address: 333 West Sheridan, OKC, OK 73102-8260
Facility or well name: Cochiti 28 Federal 1
API Number: 30-015-30113 OCD Permit Number: _____
U/L or Qtr/Qtr SWNW Section 28 Township 23S Range 29E County: Eddy County, NM
Center of Proposed Design: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

COPY

2.
☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: ☐ Drilling a new well ☒ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A
☒ Above Ground Steel Tanks or ☒ Haul-off Bins

3.
Signs: Subsection C of 19.15.17.11 NMAC
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
☒ Signed in compliance with 19.15.3.103 NMAC

4.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____

5.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.
Disposal Facility Name: CRI Disposal Facility Permit Number: R9166
Disposal Facility Name: _____ Disposal Facility Permit Number: _____
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
☒ Yes (If yes, please provide the information below) ☐ No
Required for impacted areas which will not be used for future service and operations:
☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Stephanie A. Porter Title: Operations Technician
Signature: _____ Date: 6/26/08
e-mail address: Stephanie.Porter@dvn.com Telephone: (405)-552-7802

7.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

8.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ Closure Completion Date: _____

9.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10.
Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____



Commitment Runs Deep



Design Plan
Operation & Maintenance Plan
Closure Plan
Workover Operations

SENM
July 2008

I. Design Plan

Above ground steel tanks will be used for the management of all workover fluids.

II. Operations and Maintenance Plan

Devon will operate and maintain all of the above ground steel tanks involved in workover operations in a prudent manner to prevent any spills. If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. During an upset condition the source of the spill is isolated and addressed as soon as it is discovered. Free liquids will be removed and loose topsoil will be used to stabilize the spill. The contaminated soil will be either bio-remediated or excavated and taken to an agency approved disposal facility.

III. Closure Plan

All workover fluids will go to above ground steel tanks and will be hauled by various trucking companies to an agency approved disposal facility.

Impacted areas which will not be used for future service or operations will be reclaimed and reseeded as stated in the APD.

**C-108 Review Checklist:**

Received: 06/05/13 Add. Request: 7/10/2013 Reply Date: 7/15/2013 - 15 days for Mosaic
 Issued Permit: WFX / PMX / SWD Number: 972-A Permit Date: 08/16/13 Legacy Permits/Orders: SWD-972
IPI-312

Well No. 1 Well Name(s): Cochiti 28 FederalAPI: 30-0 15-30113 Spud Date: 5/3/1998 New/Old: (N) (UIC Class II Primacy 03/07/1982)Footages 1980 FNL / 660 FWL Lot --- Unit E Sec 28 Tsp 23S Rge 29E County EddyGeneral Location: Current: SWD: Bell Canyon Pool: Prior prod: Bone Springs Pool No.: ---Operator: Devon Energy Production LP OGRID: 6137 & Wolfcamp Contact: Stephanie PorterCOMPLIANCE RULE 5.9: Inactive Wells: 1885 Total Wells: 1808 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? YesWell File Reviewed: ✓ Current Status: Active SWD well/production-injection reported for JunePlanned Rehab Work to Well: Additional perf. zone (same formation/larger interval [20' to 550'] 2013)Well Diagrams: Proposed --- Before Conversion ✓ After Conversion ✓ Are Elogs in Imaging?: Yes & Acidize interval

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned <u>---</u> or Existing <u>Cond</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Planned <u>---</u> or Existing <u>✓ Surface</u>	<u>17 1/2 / 13 3/8</u>	<u>0 to 403</u>	<u>No</u>	<u>440</u>	<u>Circulated to surf</u>
Planned <u>---</u> or Existing <u>✓ Interm</u>	<u>11 / 8 5/8</u>	<u>0 to 2916</u>	<u>No</u>	<u>875</u>	<u>Circulated to surf</u>
Planned <u>---</u> or Existing <u>✓ LongSt</u>	<u>7 7/8 / 5 1/2</u>	<u>0 to 10180</u>	<u>DV / 8177'</u>	<u>1650</u>	<u>2250' - CBL</u>
Planned <u>---</u> or Existing <u>Liner</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Planned <u>✓</u> or Existing <u>OH / PERF</u>	<u>5 1/2</u>	<u>3260 to 3810</u>	<u>---</u>	<u>---</u>	<u>---</u>

Injection Strat Column:	Depths (ft)	Injection or Confining Formations	Tops?	Completion/Ops Details:
Confining Unit: Litho. Struc. Por.	<u>- 290</u>	<u>Custale</u>	<u>---</u>	Drilled TD <u>10180</u> PBDT <u>CIBP at 3850</u>
Confining Unit: <u>Litho</u> Struc. Por.	<u>- 260</u>	<u>Fletcher / Premier</u>	<u>2940</u>	Open Hole <u>---</u> or Perfs <u>✓</u>
Proposed Interval TOP:	<u>[old 3420]</u>	<u>3260 Bell</u>	<u>2970</u>	Tubing Size <u>3 1/2</u> Inter Coated? <u>Yes</u>
Proposed Interval BOTTOM:	<u>[old 3658]</u>	<u>3810 Canyon</u>	<u>---</u>	Proposed Packer Depth <u>3384 - Diagram</u>
Confining Unit: <u>Litho</u> Struc. <u>Por</u>	<u>---</u>	<u>Cherry Canyon</u>	<u>---</u>	Min Packer Depth <u>3160</u> (100-ft limit)
Confining Unit: Litho. Struc. Por.	<u>---</u>	<u>Brushy Canyon</u>	<u>---</u>	Proposed Max. Surface Press <u>652</u>
AOR: Hydrologic and Geologic Information				Calc. Inj. Press <u>652</u> (0.2 psi per ft)
POTASH: R-111-P <u>Yes</u> Noticed? <u>No</u> BLM Sec Ord <u>Yes</u> WIPP <u>No</u> Noticed? <u>---</u> SALADO: T: <u>No</u> <u>11/10</u> is <u>CLIFF HOUSE</u>				Calc. FPP <u>---</u> (0.65 psi per ft)

Fresh Water: Max Depth: 260 FW Formation Rustler Wells? No Analysis? No Hydrologic Affirm Statement Yes
 Disposal Fluid: Formation Source(s) Delaware fm wells On Lease --- Only from Operator (X) or Commercial ---

Disposal Interval: Injection Rate (AVE/MAX): 5000 / 10000 Protectable Waters: No CAPITAN REEF: thru No adjacent No
 H/C Potential: Producing Interval? No Formerly Producing? No Method: (E Log / Mudlog / DST / Depleted / Other) South of Reef

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 4 History of area
 Penetrating Wells: No. Active Wells 4 Num Repairs? 0 on which well(s)? Horizontals - Bone Springs Diagrams? No
 Penetrating Wells: No. P&A Wells 0 Num Repairs? 0 on which well(s)? 3 are with KOP near AOR - 1 inside AOR Diagrams? No

NOTICE: Newspaper Date May 21, 2013 Mineral Owner BLM Surface Owner BLM N. Date 06/04/2013RULE 26.7(A): Identified Tracts? Yes Affected Persons Cherov / OXY / Exxon Mobil / Cimarex / BTA / Rubicon / Liberty N. Date 06/04/2013Permit Conditions: Notification of Mosaic Potash required - RR dated July 15Issues: 2013 - Resanded IPI-312