



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

November 1, 2007

Oil Conservation Division  
1301 West Grand Avenue  
Artesia, New Mexico 88210

NOV 02 2007  
OCD-ARTESIA

RE: Form C-108, Application for Authorization to Inject  
Todd 25N Federal #14  
Eddy County, NM  
Section 25, T23S, R31E

30-015-28859

Gentlemen:

Please find attached, Devon Energy Production Company, LP's Form C-108, Application for Authorization to Inject.

Devon's application proposes to take produced waters from the Delaware formation and re-inject into the Delaware Bell Canyon for salt water disposal purposes utilizing the Todd 25N Federal #14 wellbore.

The original application has been filed with the OCD in Santa Fe, NM.

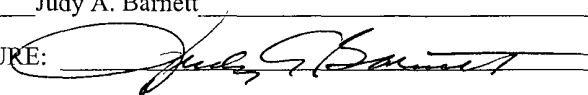
If you have any questions, please contact Jim Cromer at (405)-228-4464 or myself at (405)-228-8699.  
Thank you for your cooperation in this matter.

Sincerely,

Judy A. Barnett  
Regulatory Analyst

JB/jb  
Enclosure

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance ☒ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? ☒ Yes \_\_\_\_\_ No
- II. OPERATOR: \_\_\_\_\_ Devon Energy Production Company, LP \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ 20 North Broadway, Suite 1500, Oklahoma City, Oklahoma 73102 \_\_\_\_\_  
CONTACT PARTY: \_\_\_\_\_ Judy A. Barnett \_\_\_\_\_ PHONE: \_\_\_\_\_ 405-228-8699
- 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: \_\_\_\_\_ Judy A. Barnett \_\_\_\_\_ TITLE: \_\_\_\_\_ Regulatory Analyst \_\_\_\_\_
- SIGNATURE: \_\_\_\_\_  \_\_\_\_\_ DATE: \_\_\_\_\_ 11-1-07 \_\_\_\_\_
- E-MAIL ADDRESS: \_\_\_\_\_ Judith.Barnett@DVN.com \_\_\_\_\_
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

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

## III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

## INJECTION WELL DATA SHEET

OPERATOR: \_\_\_\_\_Devon Energy Production Company, LP\_\_\_\_\_

WELL NAME &amp; NUMBER: \_\_\_\_\_Todd 25N Federal #14\_\_\_\_\_

WELL LOCATION: \_\_\_\_\_660' FSL & 1980' FWL\_\_\_\_\_ N \_\_\_\_\_Sec 25\_\_\_\_\_ T23S \_\_\_\_\_R31E\_\_\_\_\_

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_17-1/2"\_\_\_\_\_ Casing Size: \_\_13-3/8"\_\_\_\_\_

Cemented with: \_\_\_\_\_700\_\_\_\_\_ sx. **or** \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_Surface\_\_\_\_\_ Method Determined: Circ. cement

Intermediate Casing

Hole Size: \_\_11"\_\_\_\_\_ Casing Size: \_\_8-5/8"\_\_

Cemented with: \_\_1220\_\_\_\_\_ sx. **or** \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_Surface\_\_\_\_\_ Method Determined: Circ cement\_

Production Casing

Hole Size: \_\_\_\_\_7-7/8"\_\_\_\_\_ Casing Size: \_\_\_\_\_5-1/2"\_\_

Cemented with: \_\_\_\_\_935\_\_\_\_\_ sx. **or** \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_3056"\_\_\_\_\_ Method Determined: \_CBL

Total Depth: \_\_\_\_\_8,672'\_\_\_\_\_

Injection Interval (Perforated)

\_\_\_\_\_5,236\_\_\_\_\_ feet to \_\_5,498'\_\_\_\_\_

(Perforated or Open Hole; indicate which)

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INJECTION WELL DATA SHEETTubing Size: 2-3/8", 4.7# Lining Material: IPCType of Packer: 5-1/2" IPCPacker Setting Depth: +/- 5,200'

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: Delaware Bell Canyon

3. Name of Field or Pool (if applicable): Ingle Wells ( Delaware )

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.

Delaware Cherry Canyon 5962-5990'; CIBP @ 5920' + 36' cmt. PBD 5884'. Delaware Cherry Canyon 6799-7045'.  
CIBP @ 6740' + 35' cmt. Delaware Brushy Canyon 7088-8274'.

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

No higher gas zones have been productive in the well review area above the proposed Delaware Bell Canyon injection interval at 5,236' to 5,498'. The deepest producing oil zone has been in the Delaware from 8214' to 8246' in the Todd 36B ST #15 operated by Devon. No higher producing oil zone has been productive in the well review area above the proposed Delaware Bell Canyon interval.

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OCCASION

Well Name: TODD 25N FED 14		Field: INGLE WELLS	
Location: 660' FSL & 1980' FWL; SEC 25-T23S-R31E		County: EDDY	State: NM
Elevation: 3502' GL		Spud Date: 4/19/96	Compl Date: 5/29/96
API#: 30-015-28859	Prepared by: Ronnie Slack	Date: 10/15/07	Rev:

**PROPOSED SWD**

17-1/2" hole  
13-3/8", 48#, H40, ST&C, @ 877'  
 Cmt'd w/700 Sx, circ to surface

TOC @ 3056' (CBL-5/15/96)

11" Hole  
8-5/8", 32#, J55, ST&C, @ 4,373'  
 Cmt'd w/1220 Sx, circ to surface

Proposed 2-3/8" IPC Injection Tubing

Proposed IPC Injection Packer @ +/- 5200'

PROPOSED DELAWARE BELL CANYON SWD  
 5236' - 5250'; 5374' - 5382'; 5488' - 5498'

DV Tool @ 5509'

DELAWARE CHERRY CANYON (9/98)  
 5962' - 5976'  
 5986' - 5990'

DELAWARE CHERRY CANYON (5/96)  
 6799' - 6821'  
 7038' - 7045'

DELAWARE BRUSHY CANYON (5/96)  
 7088' - 7102'  
 8034' - 8050'  
 8120' - 8142'  
 8222' - 8238'  
 8268' - 8274'

7-7/8" Hole  
5-1/2", 15.5# & 17#, J55, LT&C, @ 8,672'  
 Cmt'd w/935 Sx. TOC @ 3056' (CBL)

36' cement. 5884' PBD  
 CIBP @ 5920' (10/1/05)

35' cement. 6705' PBD (9/98)  
 CIBP @ 6740' (9/98)

8,603' PBTD

8,673' TD

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Well Name: TODD 25N FED 14		Field: INGLE WELLS	
Location: 660' FSL & 1980' FWL; SEC 25-T23S-R31E		County: EDDY	State: NM
Elevation: 3502' GL		Spud Date: 4/19/96	Compl Date: 5/29/96
API#: 30-015-28859	Prepared by: Ronnie Slack	Date: 10/15/07	Rev:

**CURRENT SCHEMAT**

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17-1/2" hole  
13-3/8", 48#, H40, ST&C, @ 877'  
Cmt'd w/700 Sx, circ to surface

TOC @ 3056' (CBL-5/15/96)

11" Hole  
8-5/8", 32#, J55, ST&C, @ 4,373'  
Cmt'd w/1220 Sx, circ to surface

DV Tool @ 5509'

DELAWARE CHERRY CANYON (9/98)  
5962' - 5976'  
5986' - 5990'

DELAWARE CHERRY CANYON (5/96)  
6799' - 6821'  
7038' - 7045'

DELAWARE BRUSHY CANYON (5/96)  
7088' - 7102'  
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8222' - 8238'  
8268' - 8274'

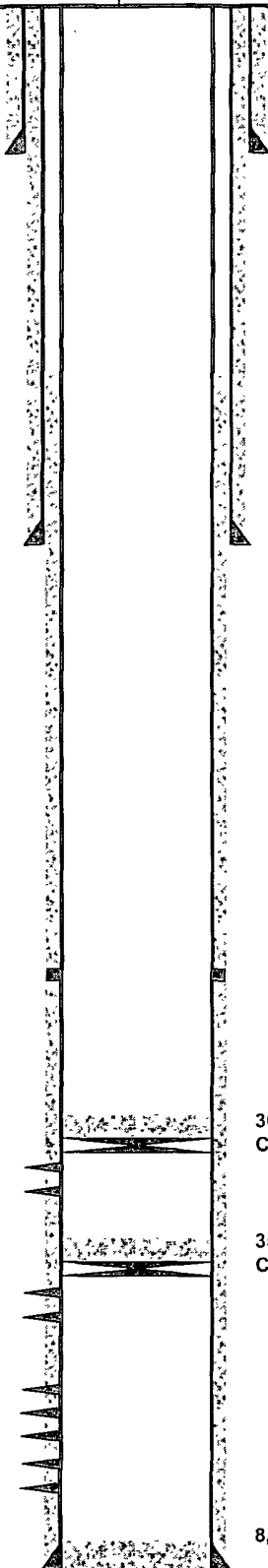
7-7/8" Hole  
5-1/2", 15.5# & 17#, J55, LT&C, @ 8,672'  
Cmt'd w/935 Sx. TOC @ 3056' (CBL)

36' cement. 5884' PBD  
CIBP @ 5920' (10/1/05)

35' cement. 6705' PBD (9/98)  
CIBP @ 6740' (9/98)

8,603' PBD

8,673' TD



TODD 25N FEDERAL #14  
APPLICATION FOR INJECTION  
Form C-108 Section III

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III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Todd 25N Federal  
Well No #14  
Location 660' FSL & 1980' FWL  
Sec.Twn,Rnge Sec 25, T23S-R31E, Unit Letter N  
Cnty, State Eddy County, New Mexico
- (2) Casing 13 3/8", 48#, @ 877' in 17-1/2" hole. Cmt'd w/ 700 sxs.  
TOC @ surface. Cement circulated.  
8 5/8", 32#, @ 4,373'. Cmt'd w/ 1220 sxs.  
TOC @ surface. Cement circulated.  
5 1/2", 15.5# & 17# @ 8,672'. Cmt'd w/ 935 sx. TOC @ 3056' CBL.
- (3) Injection Tubing 2-3/8" , 4.7#, J-55 IPC tubing run to +/- 5,200'
- (4) Packer 5-1/2" IPC Packer @ +/- 5,200'

B. Other Well Information

- (1) Injection Formation: Delaware, Bell Canyon  
Field Name: Ingle Wells (Delaware)
- (2) Injection Interval: 5,236' to 5,498' (cased hole, perforated)
- (3) Original Purpose of Wellbore:

The Todd 25N Federal #14 was spud on 4/19/1996. The well was drilled to 8673' and was completed in the Delaware Brushy Canyon from 6799' to 8274' on June 15, 1996. This well is currently temporarily abandoned. The TA status expires October 1, 2008.

- (4) Other perforated intervals:

Delaware Cherry Canyon 5962-5990'; CIBP @ 5920' w/36' cmt. PBD @ 5884'. TA. Delaware Cherry Canyon 6799-7045'; CIBP @ 6740 w/35' cmt. Delaware Brushy Canyon 7088-8274'.

- (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.

No higher gas zones have been productive in the well review area above the proposed Delaware Bell Canyon injection interval at 5,236' to 5,498'. The deepest producing oil zone has been in the Delaware from 8214' to 8246' in the Todd 36B ST #15 operated by Devon. No higher producing oil zone has been productive in the well review area above the proposed Delaware Bell Canyon interval.



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CD CARTESIA

2:38

3:1E



26

25

1/2 Mile Radius

35

36


Southeast New Mexico
Todd 25 Federal 14
Sec 25 T23S R31E
660' FSL 1980' FWL
 0 500 FEET
September 13, 2007

NOV 02 2007

C108 ITEM VI--Well Tabulation in Review Area  
 Devon Energy Production Company, LP  
 Proposed Disposal Well: Todd 25N Federal #14

Operator	Well Name	API NO	County	Sec	Twn	Rnge	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval-Ft	Casing Program	Cement / TOC
Devon Energy Prod Co LP	Todd 25J Federal #10	30-015-28806	Eddy	25	23S	31E	Oil	Active	11/12/96	12/30/96	8642	8559	Cherry Canyon	7134-8311	13-3/8", 48#, @ 887' 8-5/8", 32#, @ 4360' 5-1/2", 15 5 & 17#, @ 8644'	700 Sx / circ surf 1250 Sx / circ surf 920 Sx, TOC 3459' (CBL)
Devon Energy Prod Co LP	Todd 25K Federal #11	30-015-27710	Eddy	25	23S	31E	Oil	Active	05/28/96	07/10/96	8630	8572	Cherry Canyon Brushy Canyon Brushy Canyon Brushy Canyon	6796-6814 7495-7515 7540-7560 8050-8070 8116-8136	13-3/8", 48#, @ 889' 8-5/8", 32#, @ 4365' 5-1/2", 15 5 & 17#, @ 8629'	700 Sx / circ surf 1450 Sx / circ surf 1060 Sx, 3620' (CBL)
Devon Energy Prod Co LP	Todd 25L Federal #12	30-015-27385	Eddy	25	23S	31E	Oil	Active	08/30/93	09/27/93	8400	8356	L. Brushy Canyon	8045-8228	13-3/8", 48#, @ 872' 8-5/8", 32#, @ 4353' 5-1/2", 15.5 & 17#, @ 8400'	700 Sx / circ surf 1650 Sx / cir surf 1100 Sx, TOC 2460' (CBL)
Devon Energy Prod Co LP	Todd 25M Federal #13	30-015-27386	Eddy	25	23S	31E	Oil	Active	10/21/93	12/18/93	8370	8315	L. Cherry Canyon U. Brushy Canyon L. Brushy Canyon	6748-6778 7128-7198 8091-8248	13-3/8", 48#, @ 860' 8-5/8", 32#, @ 4370' 5-1/2", 15.5 & 17#, @ 8370'	700 Sx / circ surf 1500 Sx / circ surf 1075 Sx / TOC 2472' (CBL)
Devon Energy Prod Co LP	Todd 25N Federal #14	30-015-28859	Eddy	25	23S	31E	Oil	Inactive TA	04/19/96	05/29/96	8673	6705	Cherry Canyon	5962-5990	13-3/8", 48#, @ 877' 8-5/8", 32#, @ 4373' 5-1/2", 15 5 & 17#, @ 8672'	700 Sx / circ surf 1220 Sx / circ surf 935 Sx / TOC 3056' (CBL)
Devon Energy Prod Co LP	Todd 25O Federal #15	30-015-28860	Eddy	25	23S	31E	Oil	Active	02/04/97	03/17/97	8671	8583	Delaware Delaware Delaware	7124-7160 8110-8124 8154-8200	13-3/8", 48#, @ 894' 8-5/8", 32#, @ 4425' 5-1/2", 16#, @ 8670'	775 Sx / circ surf 1210 Sx / circ surf 830 Sx / TOC 3590' (CBL)
Devon Energy Prod Co LP	Todd 25P Federal #16	30-015-28817	Eddy	25	23S	31E	Oil	SWD	05/10/97	06/19/97	8708	8625	L. Brushy Canyon M. Brushy Canyon U. Brushy Canyon Del Brushy Canyon	8121-8230 7540-7560 7202-7246 5778-5920	13-3/8", 48#, @ 1026' 8-5/8", 32#, @ 4471' 5-1/2", 15 5 & 17#, @ 8707'	810 Sx / circ surf 1325 Sx / circ surf 970 Sx / 3680' (CBL)
Devon Energy Prod Co LP	Todd 26P Federal #16	30-015-27134	Eddy	26	23S	31E	Oil	Active	01/15/93	04/01/93	8425	8410	Delaware Delaware	8068-8086 8136-8228	13-3/8", 48#, @ 835' 8-5/8", 32#, @ 4450' 5-1/2", 15 5 & 17#, @ 8425'	650 Sx / circ surf 2200 Sx / circ surf 1150 Sx / TOC 1810' (CBL)
Devon Energy Prod Co LP	Todd 36B ST #15	30-015-29102	Eddy	36	23S	31E	Oil	Active	09/09/96	10/24/96	8581	8525	Delaware	7102-7158 8128-8171 8214-8246	13-3/8", 48#, @ 882' 8 5/8", 32#, @ 4394' 5 1/2", 15 5 & 17#, @ 8580'	700 Sx / circ surf 1330 Sx / circ surf 1180 Sx / TOC 3500' (CBL)
Devon Energy Prod Co LP	Todd 36C ST #7	30-015-28522	Eddy	36	23S	31E	Oil	Active	10/14/95	12/01/95	8623	8513	Delaware	7198-8264	13-3/8", 48#, @ 850' 8 5/8", 32#, @ 4379' 5-1/2", 15 5 & 17#, @ 8623'	700 Sx / circ surf 1450 Sx / circ surf 1175 Sx; TOC 1810' (CBL)
Devon Energy Prod Co LP	Todd 36D ST #2	30-015-27365	Eddy	36	23S	31E	Oil	Active	07/02/93	08/20/93	8400	8347	Brushy Canyon Brushy Canyon	7036-7044 8078-8104	13-3/8", 54 5#, @ 875 8 5/8", 32#, 4353 5-1/2", 15 5 & 17#, @ 8400'	700 Sx / circ surf 1800 Sx / circ surf 1175 Sx / TOC 1410' (CBL)
Devon Energy Prod Co LP	Todd 36D St 1	30-015-20341	Eddy	36	23S	31E	Gas	SWD	11/06/70	03/18/71	15,400	11,527	Delaware	5700-6560 (Del perms SWD) 14,862-14,898	20", 94#, @ 630' 13 3/8", 72 & 54 5#, @ 4525' 9 5/8", 47 & 43 5#, @ 12,830' 5 1/2" Liner @ 12,331-15,400'	1160 Sx / circ surf 3400 Sx / circ surf 2400 Sx / circ surf 925 Sx / TOL, TOC 4750' TS
Devon Energy Prod Co LP	Todd 36F ST #6	30-015-28520	Eddy	36	23S	31E	Oil	Active	11/18/95	01/05/96	8707	8623	Delaware	7100-7236	13-3/8", 48#, @ 859' 8-5/8", 32#, @ 4384' 5-1/2", 15 5 & 17#, @ 8707'	700 Sx / circ surf 1250 Sx / circ surf 1175 Sx / TOC 2070' (CBL)

**Todd 25N Federal #14**  
**APPLICATION FOR INJECTION**  
**Form C-108 Section VII to XII**

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

- (1) Proposed average injection rate: 2000 BWPD  
Proposed maximum injection rate: 2000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 800 psi  
Proposed max injection pressure: 1155 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 Todd Federal lease. Similar Delaware waters will be injected into the Todd 25N Federal #14.

**VIII** The proposed injection interval is located in the Delaware formation. This Permian age reservoir is approximately 262 feet thick in this area. The injection interval is from 5,236' to 5,498'.

The base of surface fresh water sands (Upper Permian Sands) are reported at 800'. The surface casing for the Todd 25N Federal #14 is set at 877' and has been cemented to surface.

- IX** The proposed injection zone will be acidized with +/- 5000 gallons 7.5% NeFe and fraced with +/- 120,000 lb proppant.
- X** Logging & test data have previously been submitted to the OCD.
- XI** Fresh water analysis attached for Todd 26 FWW.
- 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.

C108-Item VII #4  
Injection Water Analysis  
Delaware Produced Water  
Todd 26 Federal SWD Station

NOV 02 2007  
OCD-ARTESIA

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

## Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	44221
Region:	PERMIAN BASIN	Account Manager:	SHAWNA MATTHEWS (505) 910-9393
Area:	CARLSBAD, NM	Sample #:	397552
Lease/Platform:	TODD 26 FEDERAL SWD STATION	Analysis ID #:	68859
Entity (or well #):	SWD	Analysis Cost:	\$80 00
Formation:	DELAWARE PRODUCED WATER		
Sample Point:	DISCHARGE LINE		

Summary		Analysis of Sample 397552 @ 75 °F					
Sampling Date:	02/23/07	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/09/07	Chloride:	173926.0	4905.82	Sodium:	84955.2	3695.34
Analyst:	JOSE NUNEZ	Bicarbonate:	912.6	14.96	Magnesium:	3135.0	257.9
		Carbonate:	0.0	0.	Calcium:	18251.0	910.73
TDS (mg/l or g/m3):	284659.8	Sulfate:	622.0	12.95	Strontium:	1337.0	30.52
Density (g/cm3, tonne/m3):	1.187	Phosphate:			Barium:	4.0	0.06
Anion/Cation Ratio:	1	Borate:			Iron:	31.0	1.12
		Silicate:			Potassium:	1480.0	37.85
					Aluminum:		
Carbon Dioxide:	220 PPM	Hydrogen Sulfide:		2 PPM	Chromium:		
Oxygen:		pH at time of sampling:		6.5	Copper:		
Comments:		pH at time of analysis:			Lead:		
		pH used in Calculation:		6.5	Manganese:	6.000	0.22
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.55	140.95	-0.07	0.00	-0.01	0.00	0.30	140.95	0.88	1.87	1.53
100	0	1.61	146.55	-0.16	0.00	-0.03	0.00	0.28	131.36	0.68	1.60	1.85
120	0	1.66	152.14	-0.23	0.00	-0.03	0.00	0.27	127.36	0.50	1.33	2.2
140	0	1.71	157.74	-0.30	0.00	0.00	0.53	0.27	127.63	0.35	1.07	2.57

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

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

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

Martin Water Labs

NOV 02 2007 (FAX)

OCD-ARTESIA

Martin Water Laboratories, Inc.

P.O. BOX 98  
MIDLAND, TX. 79702  
PHONE (432) 683-4521

**C108-Item XI**  
**Fresh Water Analysis**  
**Todd 26 FWW**  
**Sec 26-T23S-R31E**

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8819

### RESULT OF WATER ANALYSES

TO: Shawna Matthews  
10520 W. I-20 East, Odessa, TX 79765

LABORATORY NO.	1007-191
SAMPLE RECEIVED	10-15-07
RESULTS REPORTED	10-23-07

COMPANY Baker Petrolite

LEASE Devon - Todd 26 FWW

FIELD OR POOL

SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

SOURCE OF SAMPLE AND DATE TAKEN:

Drinking water - taken 10-12-07.

NO. 2 Maximum contents for drinking water as recommended by the Texas Dept. of Health.

NO. 3

NO. 4

REMARKS:

## CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0013			
pH When Sampled				
pH When Received	7.55			
Bicarbonate as $\text{HCO}_3$	122			
Supersaturation as $\text{CaCO}_3$				
Undersaturation as $\text{CaCO}_3$				
Total Hardness as $\text{CaCO}_3$	2,400			
Calcium as Ca	660			
Magnesium as Mg	182			
Sodium and/or Potassium	109			
Sulfate as $\text{SO}_4$	2,208	300		
Chloride as Cl	170	300		
Iron as Fe	0.30	0.30		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	3,452	1,000		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	2.27			
Suspended Oil				
Filterable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.4	10.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Additional Determinations And Remarks Based on the determinations performed above, this water shows to exceed State standards for drinking water as recommended by the Texas Dept. of Health in the levels of sulfate and total solids.

Form No. 3

By

Greg Ogden, B.S.

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

Application For Injection in Todd 25N Federal #14  
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 0000 3996 1992**

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 injection in the Todd 25N Federal #14

Date Mailed: 11/01/2007

Signature: 

Date: 11-1-07

Judy A. Barnett, Regulatory Analyst  
Devon Energy Production Co., L.P.  
20 N. Broadway, Suite 1500  
Oklahoma City, OK 73102

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

NOV 02 2007  
OCD-ARTESIA

Application For Injection in Todd 25N Federal #14  
Devon Energy Production Company, LP

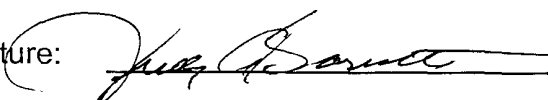
**Leasehold Operators within 1/2 mile of Todd 25N Federal #14**

Pogo Producing Company  
P.O. Box 10340  
Midland, Texas 79702

Certified receipt No.  
**7007 0710 0000 3996 2005**

A copy of this application has been mailed to the above leasehold operator by certified mail, pertaining to Devon Energy's application for salt water injection in the Todd 25N Federal #14.

Date Mailed: 11/1/2007

Signature: 

Date: 11-1-07

Judy A. Barnett, Regulatory Analyst  
Devon Energy Production Co., L.P.  
20 N. Broadway, Suite 1500  
Oklahoma City, OK 73102

NOV 02 2007  
OCD-ARTESIA

**Affidavit of Publication**

State of New Mexico,  
County of Eddy, ss.

**April Hernandez**, being first duly sworn,  
on oath says:

That she is HR Manager 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:

October 10 2007

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

*April Hernandez*

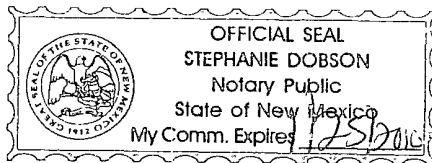
Subscribed and sworn to before me this

11 day of October, 2007

*Stephanie Dobson*

My commission Expires on 1/25/2010

Notary Public



October 10, 2007

**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 for an injection well. The proposed well is the Todd 25N Federal #14, located 660' FSL & 1980 FWL, Unit N, Section 25, Township 23 South, Range 31 East, in Eddy County, New Mexico, will be used for salt water disposal. Disposal waters from the Delaware will be injected into the Bell Canyon formation at a depth of 5236' to 5498' with a maximum pressure of 800 psi and a maximum rate of 2000 BWPD.

All interested parties opposing the afore mentioned 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 Jim Cromer at (405) 228-4464.