

1/2/08 DATE IN	SUSPENSE	W Jones ENGINEER	1/2/08 LOGGED IN	SWD TYPE 113	PKUR0800235457 APP NO.
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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]

*DEVON*  
*ORE IDA 14 Feb #5*

- [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  
*Ore Ida 14 Feb #5*
- [D] Other: Specify \_\_\_\_\_

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- [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.

<u>Ronnie Slack</u> Print or Type Name	<u>Ronnie Slack</u> Signature	<u>Engineering Tech</u> Title	<u>1/2/08</u> Date
		<u>Ronnie.Slack@dvn.com</u> e-mail Address	



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

405 235 3611 Phone  
www.devonenergy.com

RECEIVED  
2007 DEC 31 AM 9 38

December 28, 2007

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

RE: Form C-108, Application for Authorization to Inject  
Ore Ida 14 Federal #5  
Eddy County, NM  
Section 14, T24S, R29E

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 Ore Ida 14 Federal #5 wellbore.

A copy of this application is being filed with the OCD-Artesia office, surface land owner, and leasehold operator.

If you have any questions, please contact Jim Cromer at (405)-228-4464 or myself at (405)-552-4615. Thank you for your cooperation in this matter.

Sincerely,

Ronnie Slack  
Engineering Technician

RS/rs  
Enclosure

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Devon Energy Production Company, LP  
ADDRESS: 20 North Broadway, Suite 1500, Oklahoma City, Oklahoma 73102  
CONTACT PARTY: Ronnie Slack PHONE: 405-552-4615
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Ronnie Slack TITLE: Engineering Technician  
SIGNATURE: Ronnie Slack DATE: 12/28/07  
E-MAIL ADDRESS: Ronnie.Slack@DVN.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### 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 & NUMBER: \_\_\_\_\_ Ore Ida 14 Federal #5 \_\_\_\_\_

WELL LOCATION: \_\_\_\_\_ 935' FNL & 1705' FEL, \_\_\_\_\_ B \_\_\_\_\_ Sec 14 \_\_\_\_\_ T24S \_\_\_\_\_ R29E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA  
Surface Casing

Hole Size: 17-1/2" \_\_\_\_\_ Casing Size: 13-3/8" \_\_\_\_\_  
Cemented with: 325 sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Surface \_\_\_\_\_ Method Determined: Circ. cement  
Intermediate Casing

Hole Size: 12-1/4" \_\_\_\_\_ Casing Size: 8-5/8" \_\_\_\_\_  
Cemented with: 1300 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: 1036 sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 2970' \_\_\_\_\_ Method Determined: CBL

Total Depth: 8,350' \_\_\_\_\_

Injection Interval (Perforated)

\_\_\_\_\_ 3,182' \_\_\_\_\_ feet to \_\_\_\_\_ 3,490' \_\_\_\_\_

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8", 4.7# Lining Material: IPC

Type of Packer: 5-1/2" IPC

Packer Setting Depth: +/- 3,130'

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

Additional Data

1. Is this a new well drilled for injection? Yes  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): Cedar Canyon ( 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 Brushy Canyon: 6,668' - 6,704'; Abandoned. CIBP @ 6620' + 35' cement. 6,585' PBD Bone Spring: 7,864' - 8,141'. Abandoned.

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

No higher or lower gas zones have been productive in the well review area above/below the proposed Delaware Bell Canyon injection interval from 3,182' to 3,490'. The deepest producing oil zone has been in the Bone Spring from 7,864' to 8,152' in Devon's Ore Ida 14 Fed #6. The highest producing oil zone has been in the Delaware Brushy Canyon (6668' - 6704') present in the Ore Ida 14 Fed #5. No productive oil zones have been above the proposed Delaware Bell Canyon SWD perforations at 3,182' - 3,490'.

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: Ore Ida 14 Federal #5		Field: CEDAR CANYON DELAWARE	
Location: 935' FNL & 1705' FEL; Sec 14-T245-R29E		County: EDDY	State: NM
Elevation: 2974' KB; 2960' GL		Spud Date: 11/30/96	Compl Date: 3/8/97
API#: 30-015-29243	Prepared by: Ronnie Slack	Date: 10/30/07	Rev:

**PROPOSED SWD CONVERSION**

17-1/2" hole  
13-3/8", 48#, H40, 8RD, STC @ 351'  
 Cemented w/325 sx to surface

TOC @ 2970' (CBL-1/1/97)

12-1/4" hole  
8-5/8", 32#, J55, 8RD, STC, @ 3117'  
 Cemented w/1300 sx to surface

**Proposed SWD Perforations:**  
DELAWARE BELL CANYON  
 3182' - 3204'; 3214' - 3234'; 3246' - 3280'  
 3360' - 3380'; 3474' - 3490'

**Proposed:**  
 2-3/8" IPC Tubing

**Proposed:**  
 Injection Packer @ +/- 3130'

**Proposed:**  
 CIBP @ 3725' w/35' cement on top. PBD @ 3690'

DV Tool @ 5,428'

35' Cement. PBD @ 6,585'  
 CIBP @ 6,620' (10/5/05)

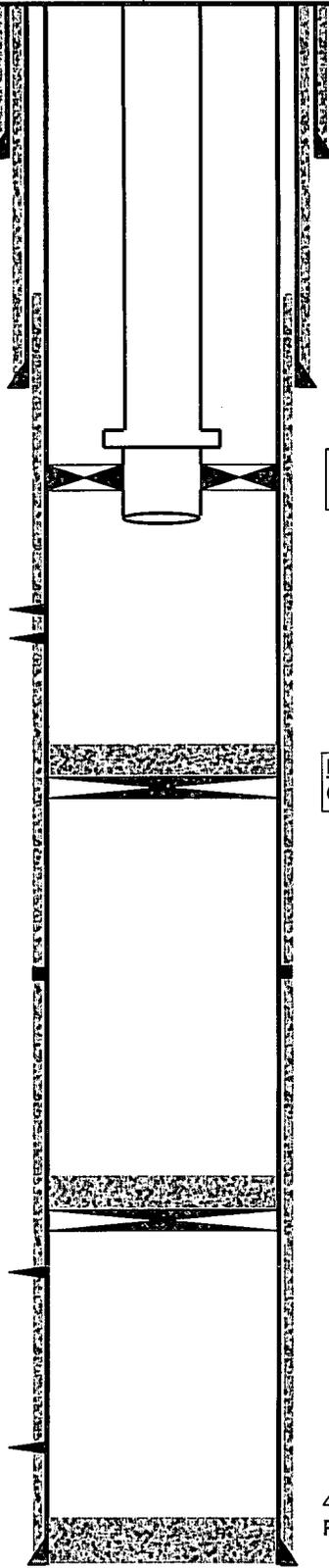
**BRUSHY CANYON (4/25/97)**  
 6,668' - 6,704'  
 4-26-97: acidize w/5K gals  
 5-2-97: fraced w/42K#  
 5-16-97: 15 bo, 174 bw

**BONE SPRING (1/1/97)**  
 7,864' - 8,141'  
 3-17-97: 33 bo, 132 bw, 175 mcf

7-7/8" Hole  
5-1/2", 17#, J55, 8RD, LTC, @ 8,350'  
 Cemented w/1036 sx.

4-25-98: TAC parts pushed to 8263'  
 PBD @ 8,263'

TD @ 8,350'



**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: Ore Ida 14 Federal #5		Field: CEDAR CANYON DELAWARE	
Location: 935' FNL & 1705' FEL; Sec 14-T24S-R29E		County: EDDY	State: NM
Elevation: 2974' KB; 2960' GL		Spud Date: 11/30/96	Compl Date: 3/8/97
API#: 30-015-29243	Prepared by: Ronnie Slack	Date: 12/22/06	Rev:

**CURRENT SCHEMAT**

17-1/2" hole  
13-3/8", 48#, H40, 8RD, STC @ 351'  
 Cemented w/325 sx to surface

TOC @ 2970' (CBL-1/1/97)

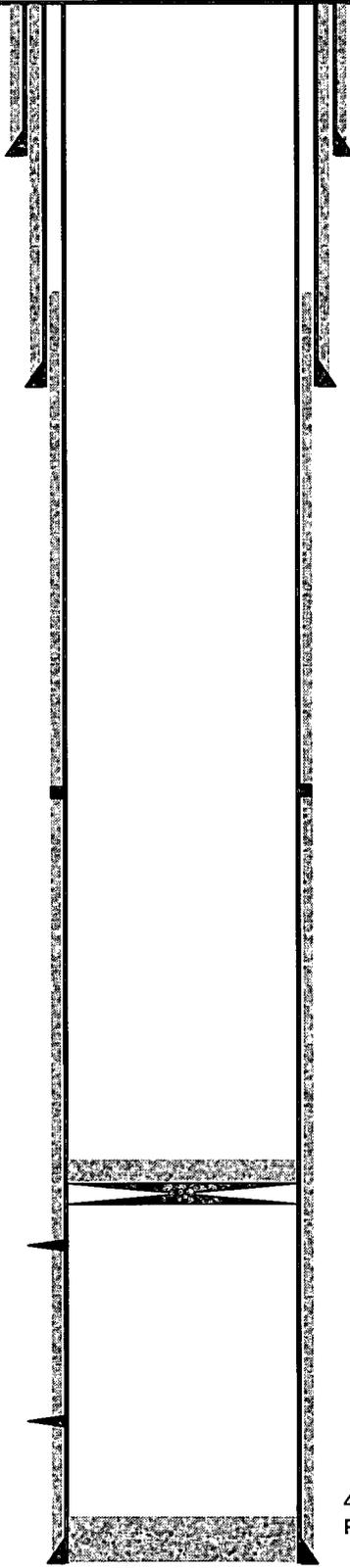
12-1/4" hole  
8-5/8", 32#, J55, 8RD, STC, @ 3117'  
 Cemented w/1300 sx to surface

DV Tool @ 5,428'

**BRUSHY CANYON** (4/25/97)  
 6,668'- 6,704'  
 4-26-97: acidize w/5K gals  
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**BONE SPRING** (1/1/97)  
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 3-17-97: 33 bo, 132 bw, 175 mcf

7-7/8" Hole  
5-1/2", 17#, J55, 8RD, LTC, @ 8,350'  
 Cemented w/1036 sx.



35' Cement. PBD @ 6,585'  
 CIBP @ 6,620' (10/5/05)

4-25-98: TAC parts pushed to 8263'  
 PBD @ 8,263'

TD @ 8,350'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Con Division  
811 S. 1st Street  
Alameda, NM 88210-2834

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1991

C/SF

**RECEIVED**  
NM-96222

**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**

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**FEB 27 1997**

6. If Indian, Allottee or Tribe Name

**OIL CON. DIV.**

7. If Unit or CA, Agreement Designation

Ore Ida "14" Fed. #5

8. Well Name and

30-015-29243

9. Field and Pool, or Exploratory Area

E. Pierce Crossing BS

10. County or Parish, State

Eddy, New Mexico

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Penwell Energy, Inc. (915) 683-2534

**FEB 21 '97**

3. Address and Telephone No.

600 N. Marienfeld, Ste. 1100, Midland, Texas 79701

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

935' FNL & 1705' FEL, Section 14, T24S, R29E

**ROSWELL, NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Spud, csg. & cmt.
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

- 11-30-96 Spudded 17 1/2" surface hole @ 5:00 PM CST. Ran 8 jts. 13 3/8", 48#, H-40, 8rd, STC, new API csg. set @ 351'. Cmt'd w/325 sx. Cl. "C" Neet cmt. containing 3% CaCl<sub>2</sub>. Circ'd 40 sx. to the pit. WOC 24 hrs.
- 12-07-96 Ran 70 jts. 8 5/8", 32#, J-55, 8rd, STC, new API intermediate csg. set @ 3,117'. Cmt'd w/ 1,050 sx of Cl. "C" Lite + 1/4 #/sx flocele + 1# gilsonite/sx + 12% salt mixed @ 12.4 ppg. followed by 250 sx Cl. "C" Neet w/2% CaCl<sub>2</sub>. Plug down to 3,069'. Circ'd to pit. WOC 12 hrs. (12 1/4" hole)
- 12-19-96 Ran 5 1/2", 17#, J-55, 8rd LTC new API production casing set @ 8,350'. Cmt'd w/475 sx. Super Modified Cl. "H" cmt.. Plug down to 8,302'. Opened DV tool and circ'd 40 sx cmt. to the pit. Cmt'd 2nd stage w/186 sx of Cl "C" Lite + 1/4#/sx. cello flakes + 1#/sx filsonite + 12% salt mixed @ 12.4 ppg yield 2.26 sq. ft/sx, mixing water 12.44 gals/sx followed by 375 sx of modified super "H". Plug down to 5,437' @ 9:30 AM 12-19-96. (7 7/8" hole)

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

Signed \_\_\_\_\_ Title Production Analyst Date 2-19-97

(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

**ACCEPTED FOR RECORD**  
ORIG. SENT DAVID R. GLASS  
**FEB 24 1997**  
BLM

TOTAL P.01

**ORE IDA 14 FEDERAL #5**  
**APPLICATION FOR INJECTION**  
**Form C-108 Section III**

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

**A. Injection Well Information**

- (1) **Lease** Ore Ida 14 Federal  
**Well No** #5  
**Location** 935' FNL & 1705' FEL  
**Sec.Twn,Rnge** 14-T24S-R29E  
**Cnty, State** Eddy County, NM
- (2) **Casing** 13-3/8", 48#, H40, @ 351' in 17-1/2" hole. Cmt'd w/ 325 sxs.  
TOC @ surface. Cement circulated.  
8-5/8", 32#, J55, @ 3,117'. Cmt'd w/ 1300 sxs.  
TOC @ surface. Cement circulated.  
5-1/2", 17#, J55, @ 8,350'. Cmt'd w/ 1036 sxs.  
TOC @ 2970' determined by CBL.
- (3) **Injection Tubing** 2-3/8" , 4.7#, IPC tubing run to +/- 3,130'
- (4) **Packer** 5-1/2" IPC Packer @ +/- 3,130'

**B. Other Well Information**

- (1) **Injection Formation:** Delaware Bell Canyon  
**Field Name:** Cedar Canyon Delaware
- (2) **Injection Interval:** 3,182' to 3,490' (cased hole, perforated)
- (3) **Original Purpose of Wellbore:**

The Ore Ida 14 Federal #5 was spud on 11/30/96. It was drilled & completed as an oil producer in the Bone Spring and Delaware Brushy Canyon zones. These zones were plugged off on 10/5/05. The wellbore is currently TA'd effective through 10/4/08.

- (4) **Other perforated intervals:**

These are the only perforated intervals in the Ore Ida 14 Federal #5 wellbore.

Delaware Brushy Canyon: 6,668' - 6,704'. Abandoned. CIBP @ 6,620' w/35' cement.  
Bone Spring: 7,864' - 8,141'. Abandoned. Below CIBP @ 6,620'.

- (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 or lower gas zones have been productive in the well review area above/below the proposed Delaware Bell Canyon injection interval from 3,182' to 3,490'. The deepest producing oil zone has been in the Bone Spring from 7,864' to 8,152' in Devon's Ore Ida 14 Fed #6. The highest producing oil zone has been in the Delaware Brushy Canyon (6668'-6704') present in the Ore Ida 14 Fed #5. No productive oil zones have been above the proposed Delaware Bell Canyon SWD perforations at 3,182' - 3,490'.

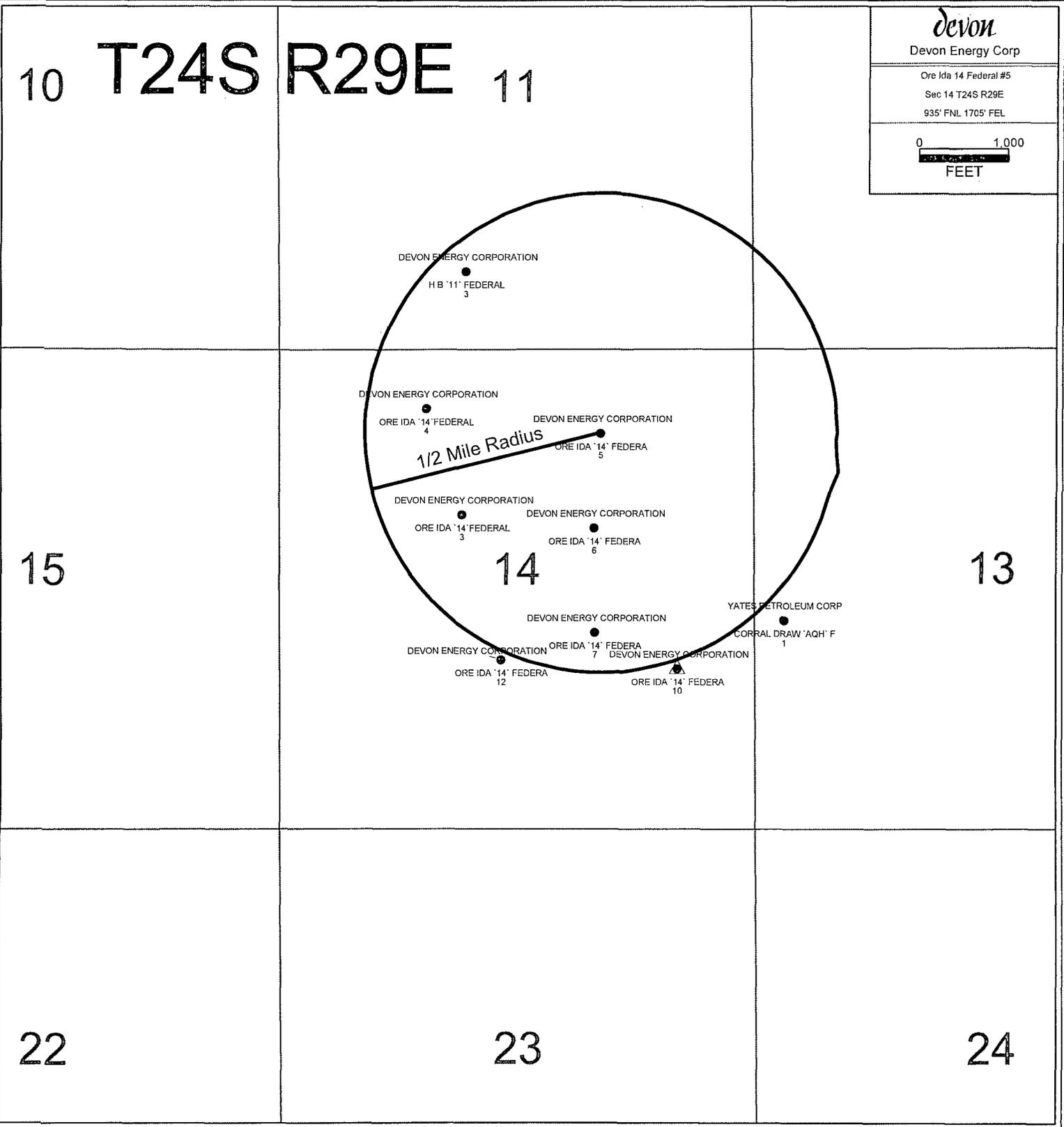
**C108-Item V**  
**Map of Well Review Area**  
**Proposed Injector: Ore Ida 14 Fed #5**  
**Eddy County; Sec 14-T24S-R29E**

10 T24S R29E 11

*devon*  
 Devon Energy Corp

Ore Ida 14 Federal #5  
 Sec 14 T24S R29E  
 935' FNL 1705' FEL

0 1,000  
 FEET



C108 ITEM VI--Well Tabulation in Review Area  
 Devon Energy Production Company, LP  
 Proposed Disposal Well: Ore Ida 14 Federal #5

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	Ore Ida 14 Fed #3	30-015-29042	Eddy	14	24S	29E	Oil	Active	08/08/96	09/10/96	8105	8100	Bone Spring	7798-8002'	13-3/8", 48#, @ 360' 8-5/8", 32#, @ 3079' 5-1/2", 17#, @ 8100'	325 Sx / surface-circulated 1090 Sx / surface-circulated 990 Sx / surface-circulated
Devon Energy Prod Co LP	Ore Ida 14 Fed #4	30-015-28963	Eddy	14	24S	29E	Oil	Active	10/30/96	12/08/96	8350	8308	Bone Spring	7797' - 8064'	13-3/8", 48#, @ 364' 8-5/8", 32#, @ 3080' 5-1/2", 17#, @ 8350'	415 Sx / surface-circulated 325 Sx / surface-circulated 970 Sx / 2700'-CBL
Devon Energy Prod Co LP	Ore Ida 14 Fed #5	30-015-29243	Eddy	14	24S	29E	Oil	TA	11/30/96	03/08/97	8350	6585	Brushy Canyon Bone Spring	6668' - 6704' 7864' - 8141'	13-3/8", 48#, @ 351' 8-5/8", 32#, @ 3117' 5-1/2", 17#, @ 8350'	325 Sx / surface-circulated 1300 Sx / surface-circulated 1038 Sx / 2970'-CBL
Devon Energy Prod Co LP	Ore Ida 14 Fed #6	30-015-29244	Eddy	14	24S	29E	Oil	Active	12/21/96	03/26/97	8350	8304	Bone Spring	7864' - 8152'	13-3/8", 48#, @ 349' 8-5/8", 32#, @ 3102' 5-1/2", 17#, @ 8350'	700 Sx / surface-circulated 1250 Sx / surface-circulated 1390 Sx / 2529'-CBL
Devon Energy Prod Co LP	Ore Ida 14 Fed #7	30-015-29306	Eddy	14	24S	29E	Oil	Active	01/28/97	03/16/97	8354	8303	Bone Spring	7894' - 8115'	13-3/8", 48#, @ 376' 8-5/8", 32#, @ 3124' 5-1/2", 17#, @ 8354'	525 Sx / surface-circulated 1275 Sx / surface-circulated 1050 Sx / 1710'-CBL
Devon Energy Prod Co LP	H B 11 Fed #3	30-015-29249	Eddy	11	24S	29E	Oil	Active	01/21/97	03/06/97	8300	8253	Bone Spring	7958' - 8016'	13-3/8", 48#, @ 365' 8-5/8", 32#, @ 2940' 5-1/2", 15.5# & 17#, @ 8266'	400 Sx / surface-circulated 950 Sx / surface-circulated 920 Sx / 2960'-CBL

RECEIVED  
 11/30/96

CLSF

Form 3160-5  
 (June 1990)

N.M. Oil Cons. Division  
 811 S. 1st Street  
 Artesia, NM 88210-2834

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

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

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

3. Lease Designation and Serial No.  
 NM-96222

6. If Indian, Allowee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 Ore Ida 14 Fed. #3

9. API Well No.  
 30-015-29042

10. Field and Pool, or Exploratory Area  
 E Pierce Crossing BS

11. County or Parish, State  
 Eddy County, N.M.

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 Penwell Energy, Inc. (915) 683-2534

3. Address and Telephone No.  
 600 N. Marienfeld, Ste. 1100, Midland, Tx. 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1830' FNL & 2050' FWL Sec. 14, T24S, R29E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Spud, Casing
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

8-8-96 Spudded 17 1/2" surface hole @ 12.00 p.m. MST

8-9-96 Ran 8 jts. 13 3/8", 48#, 8rd, STC, new, API csg and set @ 360'. Cemented w/325 sks. of Cl. C Neet + 2% CaCl<sub>2</sub> mixed @ 14.8 #/gal. Plug down to 320'. Circulated 34 sx of cmt. to surface.

8-14-96 Ran 77 jts. 8 5/8", 32#, K-55, 8rd, STC, new, API csg. Cemented w/840 sks. of Cl. "C" Lite + 1/4#/sk. flocele + 1#/sk. gilsonite + 12% salt mixed @ 12.4 #/gal., yield of 2.25 sq. ft/sk. Followed by 250 sks. of Cl. C Neet + 2% CaCl<sub>2</sub> mixed @ 14.8 #/gal. Circ. cmt to surface. (180 sxs)

8-26-96 Ran 204 jts. 5 1/2" csg., 17#, K-55, 8rd, LTC, new, API. Cmt'd w/475 sks. of Modified Super H + .4% CFR-3 + 5#/sk. gilsonite + .5% Halad 344. Plug down to 8057'. Floats held o.k. Circ'd 75 sks. of cmt. off tool. Circ'd 4 hrs. cmt'd second stage w/440 sks. of Cl. C Lite + additives. Plug down to 5093'. DV tool closed & held ok. Circ'd 10 sks. of cmt to surface pit. Released rig.

14 I hereby certify that the foregoing is true and correct

Signed Brenda Callman Title Production Analyst Date August 29, 1996

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any

ACCEPTED FOR FILE  
 SEP 25 1996  
 SGT DAVID B. GLASS

**ORE IDA 14 FEDERAL #5**  
**APPLICATION FOR INJECTION**  
**Form C-108 Section VII to XII**

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

- (1) Proposed average injection rate: 1000 BWPD  
Proposed maximum injection rate: 2000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 1000 psi  
Proposed max injection pressure: 2000 psi
- (4) The proposed injection fluid is produced water from the Delaware that will be re-injected into the Delaware Bell Canyon zone. No compatibility issues are anticipated.
- (5) Attached is a water Analysis of Delaware produced waters similar to what will be injected into Delaware Bell Canyon in the the Ore Ida 14 Federal #5, Item VII 5.

**VIII Gelologic Injection Zone Data**

The proposed injection zone is the Delaware Bell Canyon formation at a depth from 3,182' to 3,490'. The depth to the base of known aquifers is unclear, however the top of the Salado appears to be at 210', indicating fresh waters to be above this. Surface casing was run to 351' and cemented to surface in the Ore Ida 14 Fed #5.

**IX Proposed Stimulation**

Depending on injection rates and pressures, the proposed injection zone could be acidize with +/- 5000 gallons 7.5% NeFe acid and fraced w/+/-120,000# proppant.

**X Log Data**

Well logs have previously been submitted to the OCD.

**XI Fresh Water Analysis**

Per New Mexico Office of State Engineer no fresh water wells are present in Sections 11, 12,13, and 14 of T24S, R29E.

**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

**C108-Item VII #5**  
**Water Analysis**  
**Delaware Produced Water**  
**Ore Ida 14 Fed 10 Disposal Station**

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:	ARTESIA, NM	Sample #:	403708
Lease/Platform:	ORE IDA '14' FEDERAL	Analysis ID #:	78129
Entity (or well #):	10 SWD	Analysis Cost:	\$80.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 403708 @ 75 °F					
		Anions	mg/l	meq/l	Cations	mg/l	meq/l
Sampling Date:	12/13/07	Chloride:	146451.0	4130.85	Sodium:	66003.6	2871.
Analysis Date:	12/26/07	Bicarbonate:	98.8	1.62	Magnesium:	3326.0	273.61
Analyst:	STACEY SMITH	Carbonate:	0.0	0.	Calcium:	18797.0	937.97
TDS (mg/l or g/m3):	237298.4	Sulfate:	322.0	6.7	Strontium:	901.0	20.57
Density (g/cm3, tonne/m3):	1.166	Phosphate:			Barium:	1.5	0.02
Anion/Cation Ratio:	1	Borate:			Iron:	20.0	0.72
Carbon Dioxide:		Silicate:			Potassium:	1372.0	35.09
Oxygen:		Hydrogen Sulfide:			Aluminum:		
Comments:		pH at time of sampling:		5.2	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		5.2	Lead:		
					Manganese:	5.500	0.2
					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
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	-0.82	0.00	-0.38	0.00	-0.34	0.00	-0.10	0.00	0.21	0.28	3.34
100	0	-0.74	0.00	-0.46	0.00	-0.35	0.00	-0.12	0.00	0.02	0.00	4
120	0	-0.66	0.00	-0.52	0.00	-0.33	0.00	-0.13	0.00	-0.15	0.00	4.63
140	0	-0.57	0.00	-0.57	0.00	-0.29	0.00	-0.12	0.00	-0.29	0.00	5.2

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

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

Application For Injection in Ore Ida 14 Federal #5  
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 5096**

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 Ore Ida 14 Federal #5.

Date Mailed: 12/28/2007

Signature: Ronnie Slack

Date: 12/28/07

Ronnie Slack, Engineering Technician  
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**

Application For Injection in Ore Ida 14 Federal #5  
Devon Energy Production Company, LP

**Leasehold Operators within 1/2 mile of Ore Ida 14 Federal #5**

Yates Petroleum Corporation  
105 S. 4th  
Artesia, NM 88210

Certified receipt No.  
**7007 0710 0001 9808 5102**

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 disposal in the Ore Ida 14 Federal #5.

Date Mailed: 12/28/2007

Signature: Ronnie Slack

Date: 12/28/07

Ronnie Slack, Engineering Technician  
Devon Energy Production Co., L.P.  
20 N. Broadway, Suite 1500  
Oklahoma City, OK 73102

November 9, 2007

**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:

November 9 2007

That the cost of publication is \$ 49.09 that Payment Thereof has been made and will be assessed as court costs.

*April Hernandez*

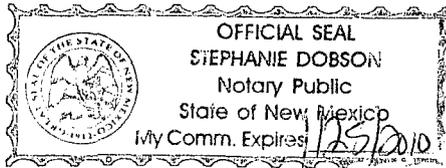
Subscribed and sworn to before me this

9 day of November, 2007

*Stephanie Dobson*

My commission Expires on 1/25/2010

Notary Public



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 a salt water disposal well. The proposed well, the Ore Ida 14 Federal #5, located 935' FNL & 1705' FEL, Section 14, Township 24 South, Range 29 East, in Eddy County, New Mexico, will be used for salt water disposal. Disposal waters from the Delaware Bell Canyon formation at a depth of 3182-3204, 3214-3234, 3246-3280, 3360-3380 and 3474-3490. A maximum injection rate of 2000 BWPD and maximum injection pressure of 1000 psi is expected.

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 Jim Cromer at (405) 228-4464.



**Injection Permit Checklist 2/8/07**

**SWD Order Number** 113 Dates: Division Approved \_\_\_\_\_ District Approved \_\_\_\_\_

Well Name/Num: ORE IDA 14 FEDERAL #5 Date Spudded: 11/30/96

API Num: (30-) 015-29243 County: EDDY

Footages 935 FNL/1705 FEL Sec 14 Tsp 24S Rge 29E

Operator Name: DEVON Energy Production Company, LP Contact: Ronnie SLACK

Operator Address: 20 North Broadway, SUITE 1500, OKC, OK 73102

Current Status of Well: TA SINCE 10/15/05 Planned Work: \_\_\_\_\_ Inj. Tubing Size: 2 3/8

	Hole/Pipe Sizes		Depths	Cement	Top/Method
Surface	<u>17 1/2</u>	<u>13 3/8</u>	<u>351</u>	<u>325</u>	<u>CIRC</u>
Intermediate	<u>12 1/4</u>	<u>8 5/8</u>	<u>3117</u>	<u>1300</u>	<u>CIRC</u>
Production	<u>7 7/8</u>	<u>5 1/2</u>	<u>8350</u>	<u>1036</u>	<u>2970 CBL</u>
Last DV Tool			<u>5428</u>		
Open Hole/Liner					
Plug Back Depth			<u>(TD = 8350)</u>		

Diagrams Included (Y/N): Before Conversion  After Conversion

Checks (Y/N): Well File Reviewed  ELogs in Imaging

Intervals:	Depths	Formation	Producing (Yes/No)
<del>Salt Potash</del>	<u>210' TOP</u>		
Capitan Reef	<u>No Patch Area or Reef</u>		
<del>Cliff House, Etc.</del>			
<del>Formation Above</del>			
Top Inj Interval	<u>3182</u>	<u>Ball C.</u>	<u>636</u> PSI Max. WHIP
Bottom Inj Interval	<u>3490</u>		<u>NO</u> Open Hole (Y/N)
Formation Below			<u>NO</u> Deviated Hole (Y/N)

**Fresh Water:** Depths: \_\_\_\_\_ Wells(Y/N) None Analysis Included (Y/N): \_\_\_\_\_ Affirmative Statement

**Salt Water Analysis:** Injection Zone (Y/N/NA) Del Disp Waters (Y/N/NA) \_\_\_\_\_ Types: Del

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

Other Affected Parties: Yates

**AOR/Repairs:** NumActiveWells 5 Repairs? \_\_\_\_\_ Producing in Injection Interval in AOR \_\_\_\_\_

AOR Num of P&A Wells 0 Repairs? \_\_\_\_\_ Diagrams Included? \_\_\_\_\_ RBDMS Updated (Y/N) \_\_\_\_\_

Well Table Adequate (Y/N) \_\_\_\_\_ AOR STRs: Sec 14 Tsp 24 Rge 29E UIC Form Completed (Y/N) \_\_\_\_\_

New AOR Table Filename \_\_\_\_\_ Sec 11 Tsp \_\_\_\_\_ Rge \_\_\_\_\_ This Form completed \_\_\_\_\_

**Conditions of Approval:** Sec 13 Tsp \_\_\_\_\_ Rge \_\_\_\_\_ Data Request Sent \_\_\_\_\_

Set CBP @ 3725  
Send COPY of CBL to Halls  
Test/Swab new Ball C. Porpo?

AOR Required Work: \_\_\_\_\_

Required Work to this Well: \_\_\_\_\_