

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 _____

[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.

Print or Type Name

Signature

Title

Date

e-mail Address



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

December 15, 2005

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

RE: Form C-108, Application for Authorization to Inject
Todd 25P Federal #16
API#: 30-015-28817
Lease: NM-0544986
Eddy County, NM
Section 25, T23S, R31E

RECEIVED
DEC 19 2005
OIL CONSERVATION
DIVISION

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 Todd 25P Federal #16.

A copy of this application is being filed with the OCD-Artesia office, surface land owner-BLM in Carlsbad, and XTO-leasehold operator. In addition a sundry- notice of intent is being filed with the BLM in Carlsbad.

If you have any questions, please contact Jim Blount at (405)-228-4301 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: 12/15/05 _____
E-MAIL ADDRESS: _____ Ronnie.Slack@DVN.com _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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: Todd 25P Federal #16

WELL LOCATION: 660' FSL & 660' FEL P Sec 25 T23S R31E
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: 810 sx. or ft³
Top of Cement: Surface Method Determined: Circ. cement

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8"
Cemented with: 1325 sx. or ft³
Top of Cement: Surface Method Determined: Circ cement

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"
Cemented with: 970 sx. or ft³
Top of Cement: 3680' Method Determined: CBL Log

Total Depth: 8,708'

Injection Interval (Perforated)

5,776' feet to 5,920'

(Perforated or Open Hole; indicate which)

Perforated

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8", 6.5# Lining Material: IPC

Type of Packer: 5-1/2" IPC

Packer Setting Depth: +/- 5,730'

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

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.

Perforated in Delaware from 7202' to 8230'. Delaware isolated w/250 sx cement. TOC tagged at 7041'. Cement retainer set at 5970'. Pumped 200 sx cement below into casing part at 6185'. Final pump pressure 1400 psi. Ran MIT on 12/13/05. No leak off. Well TA'd on 12/13/05.

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

The Bone Spring at 8434' underlies the proposed Delaware injection interval at 5776' – 5920' in the Todd 25P Federal #16 wellbore. The Bone Spring is not productive in this wellbore. There are no productive oil or gas zones above the proposed injection zone in this wellbore.

TODD 25P FEDERAL #16
APPLICATION FOR INJECTION
Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Todd 25P Federal (NM-0544986)
Well No #16
Location 660' FSL & 660' FEL
Sec,Twn,Rnge Sec 25, T23S-R31E, Unit Letter P
Cnty, State Eddy County, New Mexico
- (2) Casing 13-3/8", 48#, H40, @ 1026' in 17-1/2" hole. Cmt'd w/ 810 sxs.
TOC @ surface. Cement circulated.
- 8-5/8", 32#, J55, @ 4,471' in 11" hole. Cmt'd w/ 1325 sxs.
TOC @ surface. Cement circulated.
- 5-1/2", 15.5 & 17#, J55, @ 8,707'. Cmt'd w/ 970 sxs.
TOC @ 3680', determined by Cement Bond Log
- (3) Injection Tubing 2-7/8" , 6.5#, IPC tubing run to +/- 5,730'
- (4) Packer 5-1/2" IPC Packer @ +/- 5,730'

B. Other Well Information

- (1) Injection Formation: Delaware
Field Name: Ingle Wells (Delaware)
- (2) Injection Interval: 5,776' to 5,920' (cased hole, perforated)
- (3) Original Purpose of Wellbore:

The Todd 25P Federal #16 was spud on May 10,1997. The well was drilled to 8,708' and was completed in the Delaware from 7202' to 8230'. Date of first production was June 23, 1997. The initial well test filed was 116 BOPD, 106 MCF, & 552 BW on pump. The Delaware has been abandoned in this wellbore. This well was temporarily abandoned on 12/13/05.

(4) Other perforated intervals:

Delaware: 7202-7222' Cement retainer set @ 5970'. 200 sx sqzd below in csg part at 6185'.
7238'-7246' 250 sx cmt spotted at 7186'. TOC tagged @ 7041 (12/9/05)
7540'-7560'
8121'-8129'
8158'-8173'
8210'-8230'

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well if any.

The next lower oil zone in the area of review is the Bone Spring at 8,518'-8,544' in XTO Energy's well SDE 31 Federal #1, which is located south east of the Todd 25P Federal # 16 in Sec 31-T23S-R32E. There are no productive oil / gas zones in the area of review above the proposed injection interval at 5,776' to 5,920'

Todd 25P Federal #16
APPLICATION FOR INJECTION
Form C-108 Section VII to XII

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 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 25P Federal #16.

VIII The proposed injection interval is located in the Delaware formation. This Permian age reservoir is approximately 144 feet thick in this area. The injection interval is from 5,776' to 5,920'.

The base of surface fresh water sands (Upper Permian Sands) are reported at 800'. The surface casing for the Todd 25P Federal #16 is set at 1026' 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 No fresh water wells are reported within one mile of the 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.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
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

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

5. Lease Serial No.
NM-0544986

6. If Indian, Allottee or Tribe Name
NA

7. Unit or CA Agreement Name and No.
NA

8. Well Name and No.
TODD 25P FEDERAL 16

9. API Well No.
30-015-28817

10. Field and Pool, or Exploratory
INGLE WELLS (DELAWARE)

12. County or Parish 13. State
EDDY NM

SUBMIT IN TRIPLICATE

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

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, LP

3. Address and Telephone No.
20 North Broadway, Ste 1500, Oklahoma City, OK 73102 405-552-4615

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
660 FSL 660 FEL P 25 T23S R31E

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

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize
☐ Alter Casing
☐ Casing Repair
☐ Change Plans
☐ Convert to Injection
☐ Deepen
☐ Fracture Treat
☐ New Construction
☐ Plug and Abandon
☐ Plug Back
☐ Production (Start/Resume)
☐ Reclamation
☐ Recomplete
☐ Temporarily Abandon
☒ Water Disposal
☐ Water Shut-Off
☐ Well Integrity
☐ Other

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

Note: Form C108, Application for Authorization to Inject, is being filed with OCD-Santa Fe to convert the Todd 25P Federal 16 to water disposal.

1. Perforate the Delaware at 5,776' - 5,920' for salt water disposal.
2. Acidize 5,776' - 5,920' with +/- 5000 gallons 7-1/2% NeFe acid
3. Frac the Delaware at 5,776' - 5,920' with +/- 120,000 lb proppant.
4. Run 5-1/2" IPC packer and 2-7/8", IPC tubing. Set packer +/- 5,730'.
5. Load hole with packer fluid and perform MIT Test on casing. Chart results.
6. Turn over to production and commence water injection. Note date of injection.

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

Signed Ronnie Slack

Name Ronnie Slack
Title Engineering Technician

Date 12/15/2005

(This space for Federal or State Office use)

Approved by

Title

Date

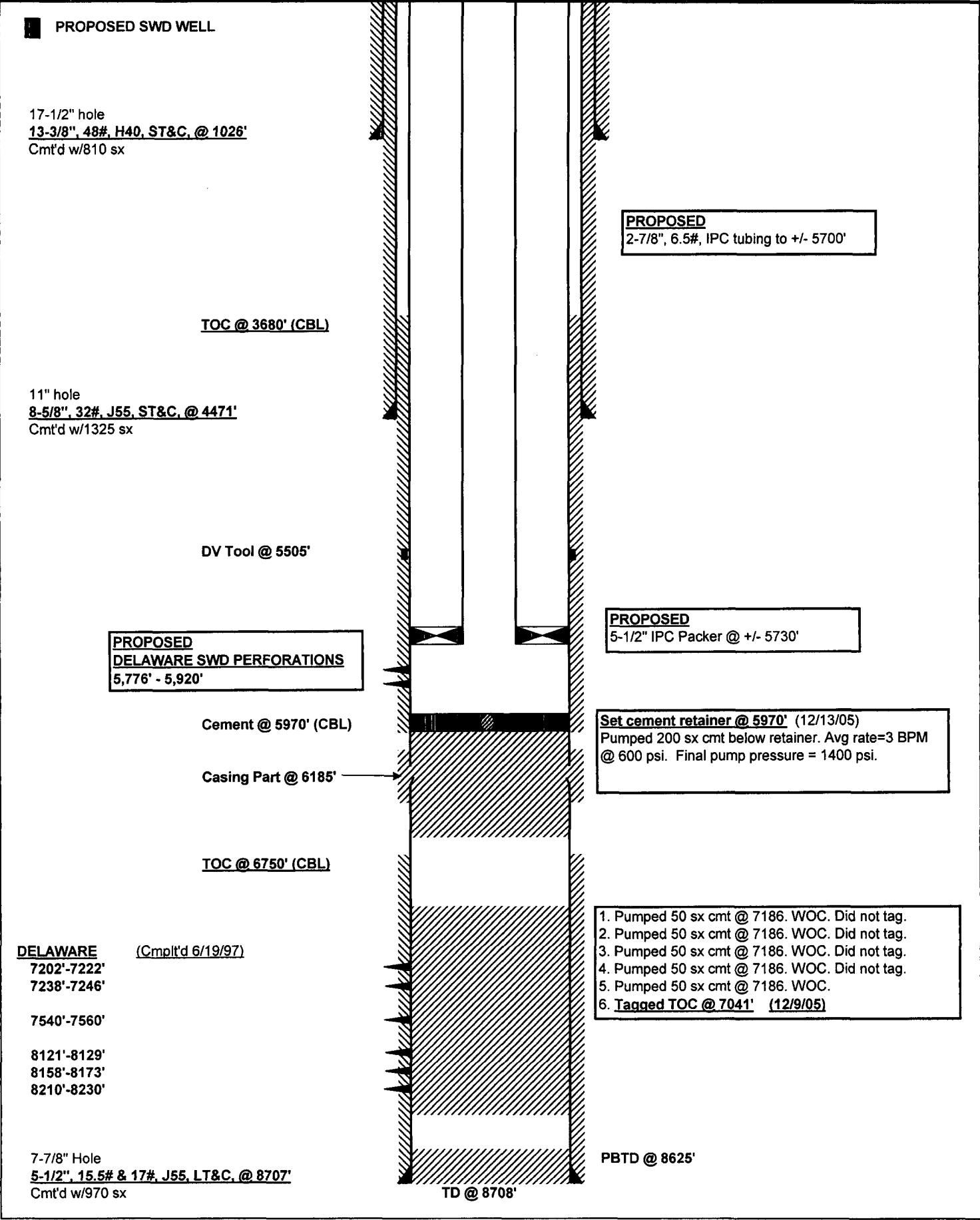
Conditions of approval, if any:

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

*See Instruction on Reverse Side

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TODD 25P FED 16		Field: INGLE WELLS	
Location: 660' FSL & 660' FEL; SEC 25-T23S-R31E		County: EDDY	State: NM
Elevation: 3541' GL		Spud Date: 5/10/1997	Compl Date: 6/19/1997
API#: 30-015-28817	Prepared by: Ronnie Slack	Date: 12/14/05	Rev:



DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TODD 25P FED 16

Field: INGLE WELLS

Location: 660' FSL & 660' FEL; SEC 25-T23S-R31E

County: EDDY

State: NM

Elevation: 3541' GL

Spud Date: 5/10/1997

Compl Date: 6/19/1997

API#: 30-015-28817

Prepared by: Ronnie Slack

Date: 12/14/05

Rev:

 Current--Well Temporarily Abandoned

17-1/2" hole

13-3/8", 48#, H40, ST&C, @ 1026'

Cmt'd w/810 sx

TOC @ 3680' (CBL)

11" hole

8-5/8", 32#, J55, ST&C, @ 4471'

Cmt'd w/1325 sx

DV Tool @ 5505'

Cement @ 5970' (CBL)

Casing Part @ 6185'

TOC @ 6750' (CBL)DELAWARE

(Cmpl't'd 6/19/97)

7202'-7222'

7238'-7246'

7540'-7560'

8121'-8129'

8158'-8173'

8210'-8230'

7-7/8" Hole

5-1/2", 15.5# & 17#, J55, LT&C, @ 8707'

Cmt'd w/970 sx

TD @ 8708'

Hole circulated w/2% KCl. Hooked up chart recorder and tested 5-1/2" casing to 675 psi for 30 minutes. No leak off. Well temporarily abandoned 12/13/05.

Set cement retainer @ 5970' (12/13/05)
Pumped 200 sx cmt below retainer. Avg rate=3 BPM @ 600 psi. Final pump pressure = 1400 psi. Shut Down pressure = 450 psi.

1. Pumped 50 sx cmt @ 7186. WOC. Did not tag.
2. Pumped 50 sx cmt @ 7186. WOC. Did not tag.
3. Pumped 50 sx cmt @ 7186. WOC. Did not tag.
4. Pumped 50 sx cmt @ 7186. WOC. Did not tag.
5. Pumped 50 sx cmt @ 7186. WOC.
6. Tagged TOC @ 7041' (12/9/05)

PBSD @ 8625'

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Dawn Higgins, being first duly sworn, on oath says:

That she is Business 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 18	2005
	2005
	2005
	2005

That the cost of publication is \$48.27 and that payment thereof has been made and will be assessed as court costs.

Dawn Higgins

Subscribed and sworn to before me this

9 day of December, 2005
Stephanie Dison

My commission Expires on 12-13-05

Notary Public

November 18, 2005

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 25P Federal #16, located 660' FSL & 660' FEL, Unit P, 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 Delaware formation at a depth of 5776' to 5920' with a maximum pressure of 1150 psi and a maximum rate of 2000 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 Jim Blount at (405) 228-4301.

DownHole SAT(tm)
SURFACE WATER CHEMISTRY INPUT

Devon Energy
Todd Federal

Injection Pump

Report Date: 02-27-97
Sample ID#: 1

Sampled: 02-03-97
at 0000

Delaware
in
EDDY COUNTY
NEW MEXICO

CATIONS

Calcium(as Ca)	25280
Magnesium(as Mg)	3806.4
Barium(as Ba)	0.00
Strontium(as Sr)	0.00
Sodium(as Na)	75965
Potassium(as K)	0.00
Lithium(as Li)	0.00
Iron(as Fe)	42.60
Ammonia(as NH3)	0.00
Aluminum(as Al)	0.00
Boron(as B)	0.00

ANIONS

Chloride(as Cl)	173190
Sulfate(as SO4)	0.00
"M" Alkalinity(as CaCO3)	152.50
"P" Alkalinity(as CaCO3)	0.00
Silica(as SiO2)	0.00
Phosphate(as PO4)	0.00
H2S (as H2S)	0.00
Fluoride(as F)	0.00
Nitrate(as NO3)	0.00

PARAMETERS

pH	5.85
Temperature(Deg F)	62.00
Calculated T.D.S.	278551
Molar conductivity	0.00

Pressure(Atm.)	0.00
P-CO2(Atm)	0.00
Density(g/ml)	1.18

BAKER PERFORMANCE CHEMICALS INC.
3920 ESSEX LANE HOUSTON, TEXAS 77027

Application For Injection
Devon Energy Prod Co LP
Todd 25P Federal 16
Form C-108 Section XIV

Proof of Notice to Leasehold Operators within 1/2 mile of Todd 25P Federal 16

XTO ENERGY
3000 N. Garfield, Ste. 175
Midland, TX 79705

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 Todd 25P Federal 16

Date Mailed: 12/15/05

Receipt # 7003 1680 0002 1828 3441

Signature: Ronnie Slack

Date: 12/15/05

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

Application For Injection
Devon Energy Prod Co LP
Todd 25P Federal 16
Form C-108 Section XIV

Proof of Notice to Surface Owner

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

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 Todd 25P Federal 16.

Date Mailed: 12/15/05

Receipt #: 7003 1680 0002 1828 3434

Signature: Ronnie Slack

Date: 12/15/05

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

[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Min. O. Cons. Division
811 S. 1st Street
Albuquerque, NM 88102-2834

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.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY CORPORATION (NEVADA)

3. Address and Telephone No.

20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611

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

660' FSL & 660' FEL Unit P Section 25-T23S-R31E

5. Lease Designation and Serial No.

NM0544986

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Todd "25P" Federal #16

9. API Well No.

30-015-28817

10. Field and Pool, or Exploratory Area

Ingle Wells (Delaware)

11. County or Parish, State

Eddy Cnty, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Spud, casing strings, TD

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

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

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

This well spud on 05-11-97 at 1900 hrs and drld a 17 1/2" hole to 1027'. On 05-13-97 ran 23 jts 13 3/8" 48# H-40 ST&C csg, set at 1026'; cemented w/610 sx 35/65 Pozmix "C" + 200 sx Class "C"; TOC at surface. WOC 24 hrs.

Drld 11" hole to 4472'. On 05-18-97 ran 104 jts 8 5/8" 32# J-55 ST&C csg, set at 4471'; cemented w/1125 sx 35/65 Pozmix Lite "C" + 200 sx Class "C"; TOC at surface. WOC 24 hrs.

Drld 7 7/8" hole and reached TD 8708' at 0815 hrs 05-26-97. Schlumberger ran MSFL/DLL/GR and LDT/CNT/GR logs.

On 05-27-97 ran 207 jts 5 1/2" 17# and 15.5# J-55 LT&C csg, set at 8707' w/DV tool at 5511'; cemented w/600 sx Class "H" + 370 sx Class "C"; preceded cement by 1000 gals sodium silicate preflush; calculated TOC at 3500'.

Released rig at 0700 hrs 05-28-97. WOCU.

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

Signed Candace R. Graham

CANDACE R. GRAHAM

ENGINEERING TECH.

Date 5/30/97

(This space for Federal or State office use)

Approved by

Title (ORIG. SGD.) DAVID R. GLASS

Date

Conditions of approval, if any:

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY CORPORATION (NEVADA)

3. Address and Telephone No.

20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611

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

660' FSL & 660' FEL Unit P Section 25-T23S-R31E

5. Lease Designation and Serial No.

NM-0544986

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Todd "25P" Federal #16

9. API Well No.

30-015-28817

10. Field and Pool, or Exploratory Area

Ingle Wells (Delaware)

11. County or Parish, State

Eddy Cnty, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Completion

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Well Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion 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 directly drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

06-04-97 thru 06-19-97

Ran bit and DC's on 2 7/8" tbg. Tagged 5508'. Drld cement and DV tool. Press tested csg to 2500 psi before and after drlg DV tool. Tagged PBTd. Ran scraper thru DV tool. RU Wedge WL. Ran CBL. TOC at 3680'. Perf'd as follows: LBC "F" at 8121', 8123', 8125', 8127' and 8129' w/5 holes; LBC "E" at 8158', 8164', 8169' and 8173' w/4 holes; LBC "D" at 8210', 8212', 8214', 8216', 8218', 8220', 8222', 8224', 8226', 8228' and 8230' w/11 holes; total 20 holes (.40" EHD). Set packer at 8004'.

Acidized perfs 8121-8230' down tbg w/1500 gals 7 1/2% HCl acid + 35 BS at AIR 6.4 BPM w/2201 psi. ISIP on vacuum. TOH w/packer.

Frac'd perfs 8121-8230' down csg w/32,750 gals 30# X-link gel + 120,000# 16/30 Ottawa sd + 37,500# 16/30 RC sd at AIR 30.2 BPM w/849 psi. ISIP 328 psi.

(Continued on reverse.)

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

CANDACE R. GRAHAM
ENGINEERING TECH.

Signed Candace R. Graham

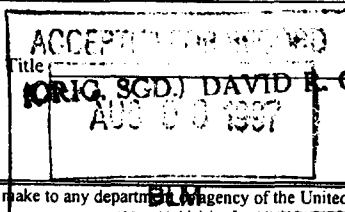
Title

Date 7/30/97

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:



Date

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, January 18, 2006 8:48 AM
To: 'Ronnie.Slack@DVN.com'
Cc: Ezeanyim, Richard, EMNRD; Arrant, Bryan, EMNRD
Subject: SWD Application: Todd 25P Fed #16 30-015-28817

Hello Ronnie:

After reviewing your application to inject into the Delaware, I have the following questions and requests:

- 1) Have your geologist pick all the tops from the Rustler to the Pennsylvanian in this area and send them to me. Your application to inject says the Delaware. Is this Cherry Canyon or Brushy Canyon or both? What is the top and bottom of the Potash/salt?
- 2) Send a notice of this application to the nearest Potash lessee. The NW/4 SE/4 of Section 25 is listed as Potash minerals and this is within 1/2 mile. It looks like the Potash is protected? (your application did not include the depths of potash), but they could be an "affected party" so they should be formally noticed.
- 3) Our web site does not have any logs from this well. Write the API number on all logs and have copies of all open hole and all cased hole logs sent to Bryan Arrant in Artesia. Copy the porosity log over the injection interval and send to me here in Santa Fe.
- 4) It looks like you are proposing to inject into an uncemented interval below the DV tool and possible fracture treat this interval? If so, please specify the depths of this uncemented interval and include it in your proposed injection application. Please send a copy of the latest Cement Bond Log to me in Santa Fe - I will forward it to Artesia after looking at it.
- 5) At least one of the AOR wells may be plugged. Please send a wellbore diagram of this well and any others that are totally P&Aed.
- 6) How did you identify this interval for SWD purposes? was it from the drillers report, mud log, electric logs?
- 7) Please estimate the water saturation in this interval and send any available water analysis or estimated TDS of this upper Delaware interval.

Thank You,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

1/18/2006



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

January 20, 2006

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

RE: Form C-108, Application for Authorization to Inject
Follow up to Additional Information request dated 1/18/06
Todd 25P Federal #16
API#: 30-015-28817
Lease: NM-0544986
Eddy County, NM
Section 25, T23S, R31E

Handwritten notes:
- 97 Bond Log
CMT:
3630'
5776'-5920'
Cherry Canyon
6980'
6185'
502 w/200 ft
12/13/05

Mr. Jones:

Please find additional information as requested in your email to me, dated January 18, 2006, concerning Devon's Form-C108 application for the Todd 25P Federal #16.

1. Formation Tops and Injection Interval clarification:

Devon proposes to inject in the Delaware (Cherry Canyon 5776-5920). Formation tops are as follows: Rustler @ 905', Salt @ 1244', Lamar (base of salt) @ 4470', Delaware Bell Canyon @ 4508', Cherry Canyon @ 5455', Brushy Canyon @ 6966', Bone Spring @ 8434' (last formation encountered in this wellbore)

2. Notice of Application to Potash lessee: Devon did not file notice of application to Potash lessee because the nearest potash lessee is 4 miles west, along with 3 sections of drilled wells in between. The latest Potash map shows this well to be 1 mile from the Potash boundary.

3. Well Logs: The following well logs are being submitted to Bryan Arrant in Artesia. Dual Laterolog/Micro-SFL/GR (dated 5/26/77); LithoDensity/Compensated Neutron/GR (dated 5/26/77); Cement Bond Log (6/4/97). A copy of the porosity log over the injection interval is attached.

4. Depths of Cement Behind 5-1/2" casing: The CBL run 6/4/97 shows good cement from 3620' to 5970', which is across the proposed injection interval from 5776' to 5920'. The uncemented interval is from 5970' to at most 6180'. A 200 sx cement squeeze was done on a casing part at 6185' on 12/13/05. Please find attached cement bond log (dated 6/4/97)

5. AOR Plugged & Abandoned wells: The Todd 36A State #16 was plugged & abandoned on 12/7/05. Attached is the wellbore schematic of this plugged & abandoned well.

6. SWD Interval Identification: The proposed interval for injection was determined from E Logs and area injection wells.

Handwritten note: DV @ 5505'

7. Water Saturation in Injection Interval: Sw is 100%. A water sample is not available at this time. A water sample can be obtained after perforating.

If you have any questions or need additional information, please contact Jim Blount at (405)-228-4301 or myself at (405)-552-4615.

Sincerely,

A handwritten signature in black ink that reads "Ronnie Slack". The signature is written in a cursive, flowing style.

Ronnie Slack
Engineering Technician

RS/rs

Enclosure

COMPANY: Devon Energy Corporation

WELL: Todd 25 'P' Federal No. 16

FIELD: Ingle Wells (Brushy Canyon)

COUNTY: Eddy STATE: New Mexico

Field: Ingle Wells (Brushy Canyon)

Location: 660 FSL and 660 FEL

Well: Todd 25 'P' Federal No. 16

Company: Devon Energy Corporation

Schlumberger

LithoDensity
Compensated Neutron
Gamma Ray

660 FSL and 660 FEL

Elev.: K.B. 3557 F

G.L. 3541 F

D.F. 3556 F

Permanent Datum: Ground Level

Elev.: 3541 F

Log Measured From: Kelly Bushing 16.0 F above Perm. Datum

Drilling Measured From: Kelly Bushing

API Serial No.
30-015-28817

SECTION
25

TOWNSHIP
23S

RANGE
31E

Logging Date 26-May-1997

Run Number

Depth Driller

Schlumberger Depth

Bottom Log Interval

Top Log Interval

Casing Driller Size @ Depth

Casing Schlumberger

Bit Size 7.875 IN

Type Fluid In Hole Cut Brine Starch

Density 9.1 LB/G 29.5

Fluid Loss PH 15 CC 9.5

Source Of Sample Circulation Tank

RM @ Measured Temperature 0.057 OHMM @ 88 DEGF

RMF @ Measured Temperature 0.057 OHMM @ 88 DEGF

RMC @ Measured Temperature @ @

Source RMF RMC Measured

RM @ MRT RMF @ MRT 0.042 @ 121 0.042 @ 121

Maximum Recorded Temperatures 121 DEGF @

Circulation Stopped 26-May-1997 12:15

Logger On Bottom 26-May-1997 17:45

Unit Number 3015 Roswell

Recorded By Brad A. Woodard

Witnessed By Duane Thompson

Logging Date

Run Number

Depth Driller

Schlumberger Depth

Bottom Log Interval

Top Log Interval

Casing Driller Size @ Depth

Casing Schlumberger

Bit Size

Type Fluid In Hole

Density Viscosity

Fluid Loss PH

Source Of Sample

RM @ Measured Temperature @ @

RMF @ Measured Temperature @ @

RMC @ Measured Temperature @ @

Source RMF RMC

RM @ MRT RMF @ MRT @ @

Maximum Recorded Temperatures @ @

Circulation Stopped Time

Logger On Bottom Time

Unit Number Location

Recorded By

Witnessed By

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

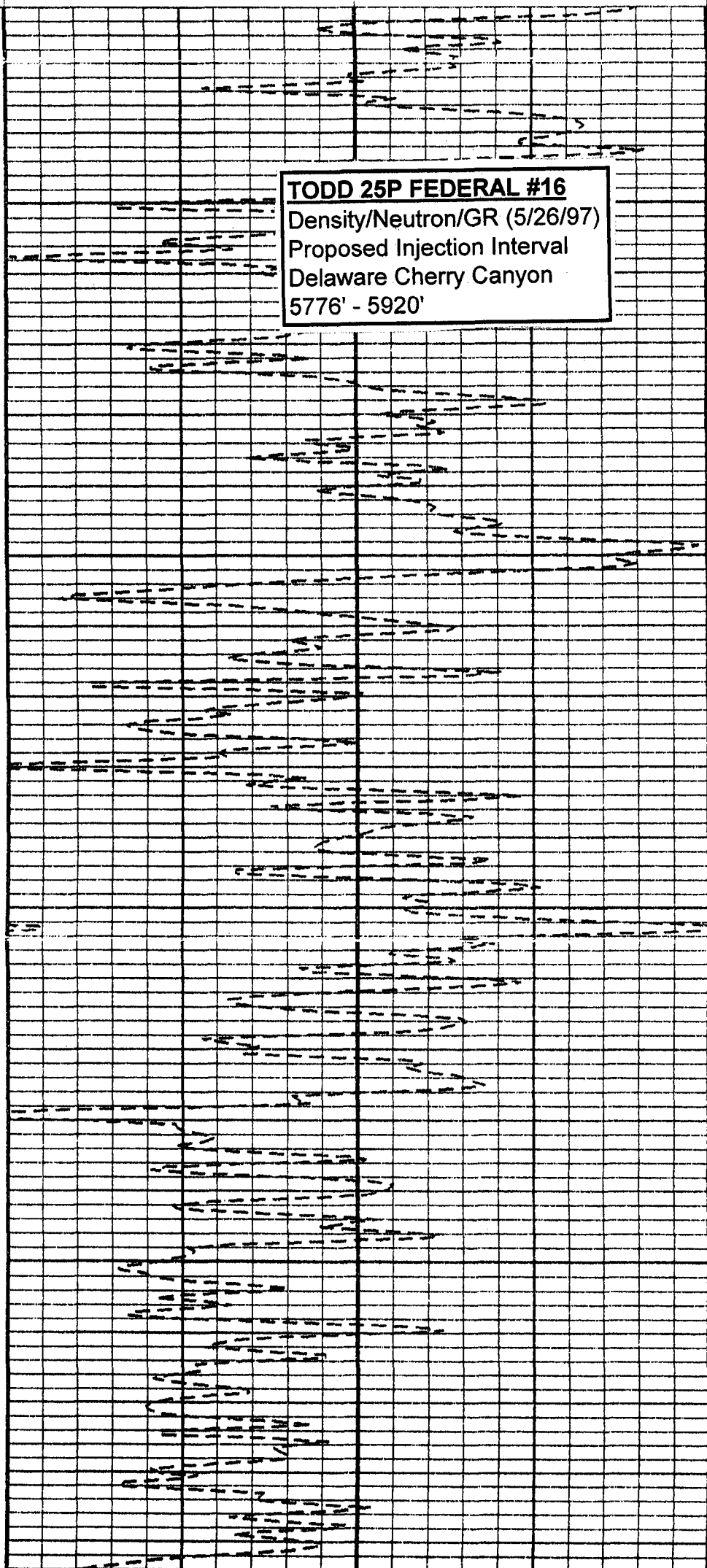
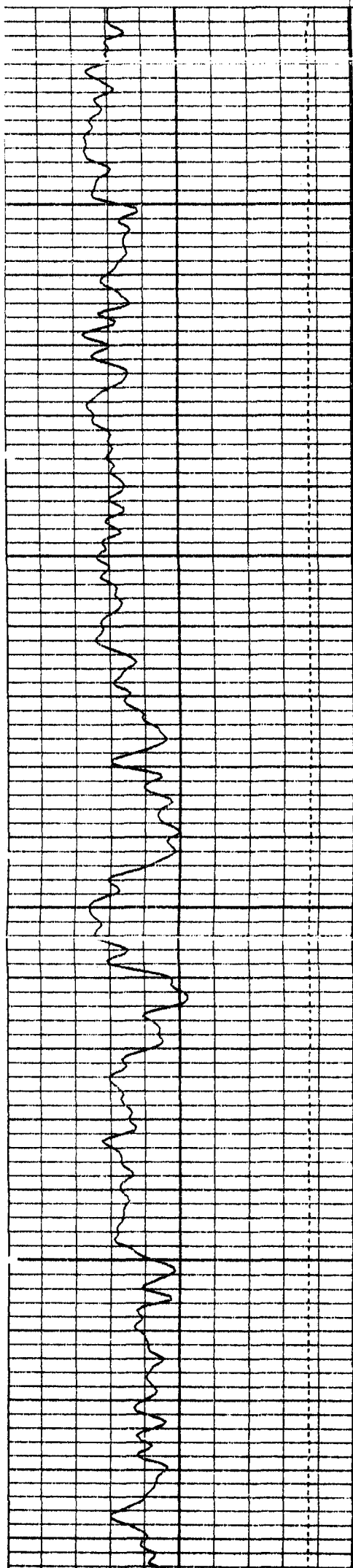
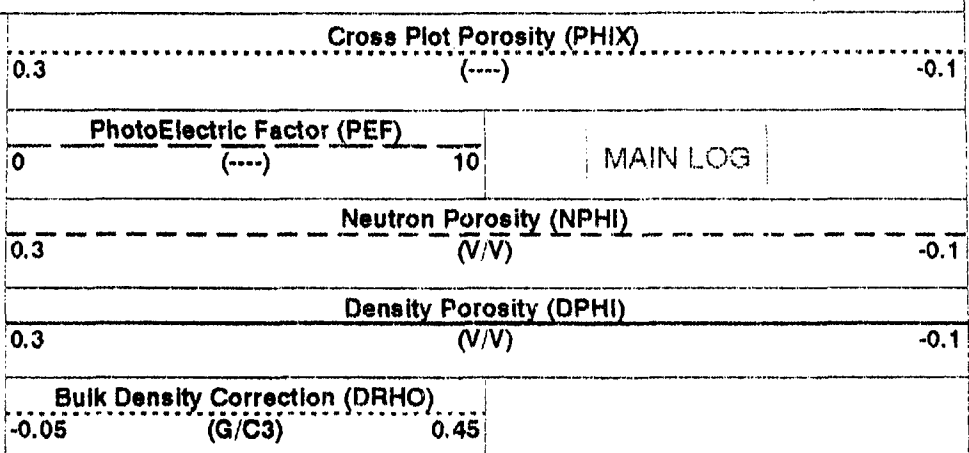
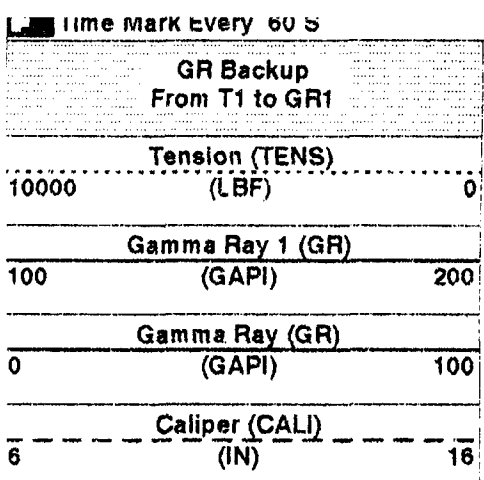
OTHER SERVICES1

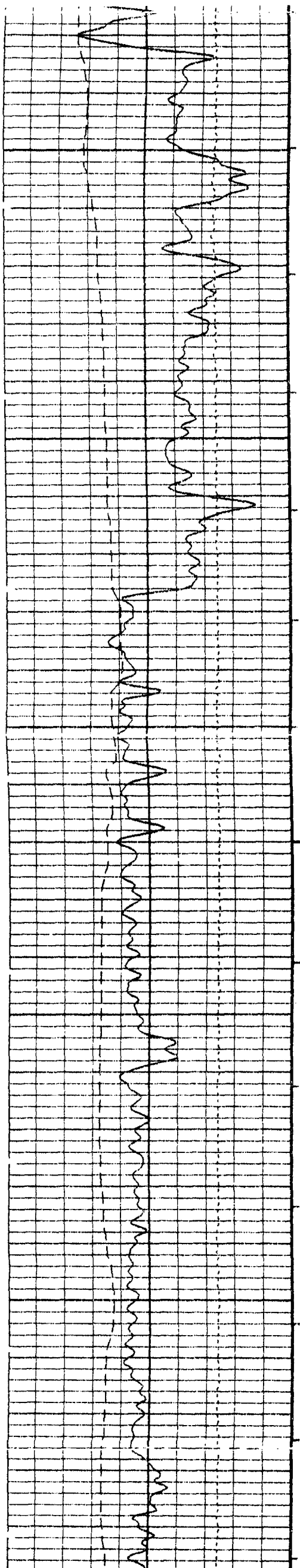
OS1: MSFL/DLL/LDT/CNT/GR

OTHER SERVICES2

OS1:

OS2:

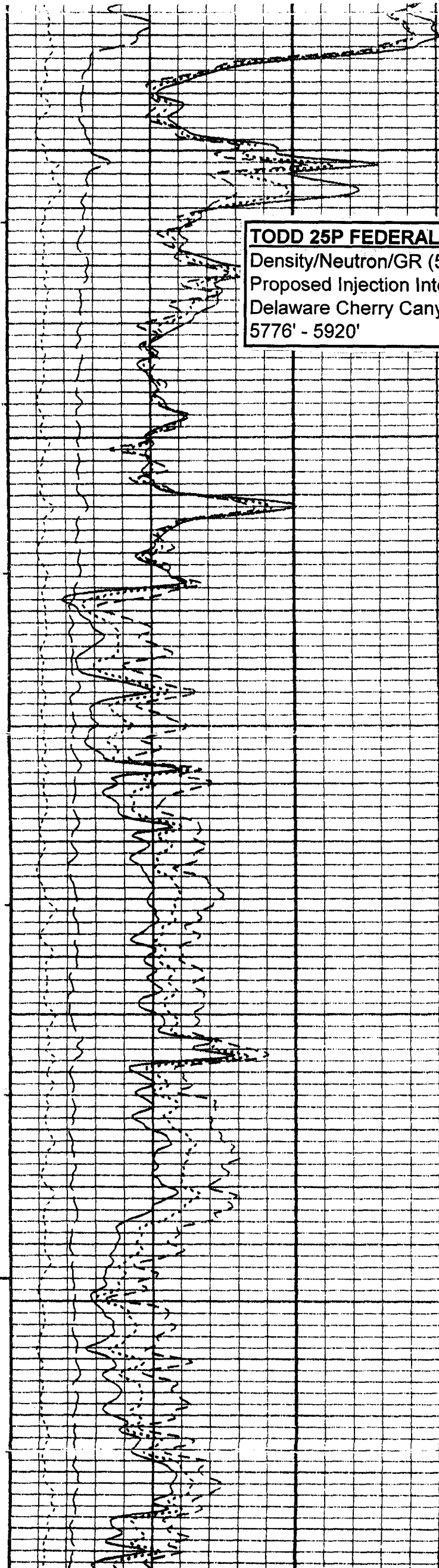




5700

5800

5900



TODD 25P FEDERAL #16
Density/Neutron/GR (5/26/97)
Proposed Injection Interval
Delaware Cherry Canyon
5776' - 5920'

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: TODD 36A STATE #16		Field: INGLE WELLS	
Location: 660 FNL & 660' FEL; SEC 36-T23S-R31E		County: EDDY	State: NM
Elevation: 3546' GL		Spud Date: 8/18/1997	Compl Date: 9/25/1997
API#: 30-015-29294	Prepared by: Ronnie Slack	Date: 12/07/05	Rev:

PLUGGED & ABANDONED 12/7/05

17-1/2" hole
13-3/8", 48#, H40, ST&C, @ 856'
 Cmt'd w/700 sx

Formation Tops:

Rustler 890'
 Salado 1223'
 Delaware 4518'
 Cherry Canyon 5412'
 Bone Spring 8374'

TOC @ 3463' (CBL)

11" hole
8-5/8", 32#, J55, ST&C, @ 4400'
 Cmt'd w/1240 sx

Reduced ID 4-3/4". A true 4-3/4" swage will go but drags in & out at 6685'

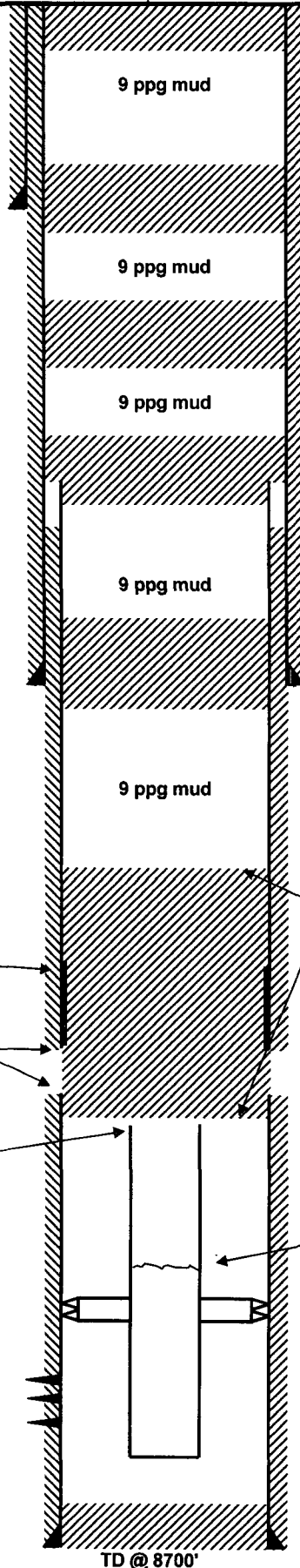
There was a 12' piece of 5-1/2" casing cut with shoe & recovered 6712' - 6724' (??)

Top of 2-7/8" tubing fish @ 6727' with split tubing. Also possible slivers of casing. 28' of tubing to next collar. Last thing in hole was a 4-1/2" shoe, dressed 4-3/4" smooth with 2-7/8" ID. Wad at top of fish.

DELAWARE
 8151'- 8158'
 8200'- 8216'
 8261'- 8288'

(Cmplt'd 9/25/97)

7-7/8" Hole
5-1/2", 15.5# & 17#, J55, LT&C, @ 8677'
 Cmt'd w/600sx



1. Spot 60' surface cmt plug (12/6/05)
 2. Cut wellhead off & installed P&A marker
 3. Plugged & Abandoned on 12/7/05

1. Spot 40 sx Cmt @ 906'
 2. Tagged TOC @ 796' (12/6/05)

1. Spot 40 sx Cmt @ 1274'
 2. Tagged TOC @ 1139' (12/3/05)

1. Cut 5-1/2" csg @ 3200'
 2. TOH w/ top cut jt & 72 full jts of 5-1/2" csg
 3. Spot 35 sx Cmt @ 3258'
 4. Tagged TOC @ 3098' (12/3/05)

1. Spot 30 sx Cmt @ 4452'
 2. Tagged TOC @ 4179' (12/1/05)

1. Spot 28 sx Cmt @ 6727'. Did not tag Cmt
 2. Spot 35 sx Cmt @ 6727'. Did not tag Cmt
 3. Spot 50 sx Cmt @ 6727'. Did not tag Cmt
 4. Spot 50 sx Cmt @ 6727'.
 5. Tagged TOC @ 6178'. Tested plug & casing to 900 psi. Held Ok. (12/1/05)

Injection Permit Checklist

SWD Order Number 1023 Dates: Division Approved _____ District Approved _____

Well Name/Num: Todd 25P Feland #16 Date Spudded: 1997

API Num: (30-) 015-28817 County: EDDY

Footages 660 FSL/660 FEL Sec 25 Tsp 23S Rge 31E

Operator Name: DEVON ENERGY PRODUCTION COM, L.P. Contact Ronnie SLACK

Operator Address: 20 N. BROADWAY, SUITE 1500 OKLAHOMA CITY, OK 73102

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	<u>17 1/2 - 13 3/8</u>	<u>102.6</u>	<u>810</u>	<u>Surf.</u>
Intermediate	<u>11" - 8 5/8</u>	<u>4471</u>	<u>1325</u>	<u>Surf.</u>
Production	<u>7 7/8 - 5 1/2</u>	<u>8708</u>	<u>970</u>	<u>3686 CBL (Above DV)</u>
Last DV Tool		<u>5505</u>		<u>6750' CBL</u>
Open Hole/Liner				
Plug Back Depth				

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

Checks (Y/N): ELogs in Imaging NO Well File Reviewed ✓

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
In Reef, Cliff House, Etc:			
Formation Above			
Top Inj Interval	<u>5776</u>	<u>Delaware</u>	
Bottom Inj Interval	<u>5720</u>	<u>Delaware</u>	
Formation Below		<u>Bone Springs</u>	

5776
11.2
1155.2

1155 PSI Max. WHIP
N Open Hole (Y/N)
Deviated Hole (Y/N)

Water Analysis Included (Y/N): Fresh Water OK Injection Zone OK Disposal Waters OK

Affirmative Statement Included (Y/N): ✓

Surface Owner BLM Mineral Owner(s) _____

Checks (Y/N): Newspaper Notice ✓ Well Table ✓ Adequate Well Table ✓

Adequate Certified Notice: Surface Owner ✓ AOR Owners ✓ Oil/Potash/Others

AOR Num Active Wells 9 Repairs? NO Producing in Injection Interval NO

AOR Number of P&A Wells 1 Diagrams Included? NO Repairs Required? _____

Data to Generate New AOR Table

NO New Table Generated? (Y/N)

	STR	E-W Footages	N-S Footages
Wellsite			
Northeast			
North			
Northwest			
West			
Southwest			
South			
Southeast			
East			

Conditions of Approval:

- Send CBL to Hall
- Send LOGS + CBL
- Send FRAC Treat Payment

RBDMS Updated (Y/N) Y

UIC Form Completed (Y/N) Y

This Form completed 1/17/06

What is TOPS
Cherry Canyon
Bundy Canyon
Top/Bottom of Potash
Send CBL