

DATE IN <u>8/6/09</u>	SUPERSEDE <u>9/20/09</u>	ENGINEER <u>Jones</u>	LOGGED IN <u>8/6/09</u>	TYPE <u>(SWD) 208</u>	APP NO. <u>0921858001</u>
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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



Apache 25 Fed. #8
 30-015-33439

Devon Energy
 (234728)

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 _____

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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.

Ronnie Slack
 Print or Type Name

Ronnie Slack
 Signature

Engr. Tech
 Title

8-4-09
 Date

Ronnie.Slack@dvn.com
 e-mail Address



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

405 235 3611 Phone
www.devonenergy.com

August 4, 2009

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

RE: Form C-108, Application for Authorization to Inject
Apache 25 Federal #8; API# 30-015-33439
Eddy County, NM
Section 25, T22S, R30E

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 Cherry Canyon for salt water disposal purposes utilizing the Apache 25 Federal #8 wellbore.

A copy of this application is being filed with the OCD-Artesia office and with the BLM. Devon owns 100% of the leasehold in the affected one-half mile review area.

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

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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: _____ 8-4-09 _____
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.

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: APACHE 25 FEDERAL 8

WELL LOCATION: 2455' FNL & 1980' FEL G Sec 25 T22S R30E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8", 48#, @ 631'
Cemented with: 400 sx. or ft³
Top of Cement: Surface Method Determined: Circ. cement
Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8", 32# @ 3849'
Cemented with: 1020 sx. or ft³
Top of Cement: Surface Method Determined: Circ. cement
Production Casing

Hole Size: 7-7/8" Casing Size: 5.5, 15.5 & 17, 7864'
Cemented with: 1710 sx. or ft³
Top of Cement: Surface Method Determined: Circ.
Total Depth: 7868'

Injection Interval (Perforated)

5678' ⁵ feet to 5930' (Perforated)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5-1/2" IPC

Packer Setting Depth: 5650'

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 Cherry Canyon from 5678' to 5930'.
3. Name of Field or Pool (if applicable): Quahada Ridge SE
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 5920'-6236'; Delaware Brushy Canyon 6861'-7682'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Delaware 3866; Bone Spring 7813'; Wolfcamp 11170; Strawn 12600; Atoka 12914; Morrow 13138'

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: APACHE 25 FEDERAL 8		Field: QUAHADA RIDGE SE	
Location: 2455' FNL & 1980' FEL; SEC 25-T22S-R30E		County: EDDY	State: NM
Elevation: 3365' KB; 3352' GL		Spud Date: 7/3/04	Compl Date: 8/12/04
API#: 30-015-33439	Prepared by: Ronnie Slack	Date: 7/9/09	Rev:

CURRENT WELLBORE

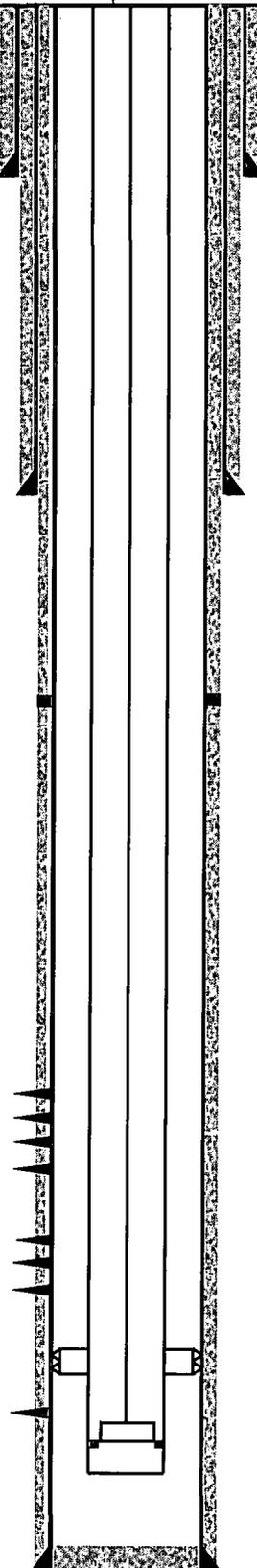
17-1/2" hole
13-3/8", 48#, H40, @ 631'
 Cmt'd w/400 sx, circ to surface

11" Hole
8-5/8", 32#, J55, @ 3,849'
 Cmt'd w/1020 sx, circ to surface

3982
 DV Tool @ 4527'

Formation Tops per cmpl rpt

Rustler	378
Salado	683
Delaware	3866
Cherry Canyon	4813
Brushy Canyon	6425
Bone Spring	7813



2-7/8", 6.5#, J55, production tubing (4/3/07)

DELAWARE CHERRY & BRUSHY CANYON (2/15/06)

- 5920' - 5930' (acidized w/1K gals, frac w/28K#)
- 6058' - 6074' (acidized w/1500 gals)
- 6225' - 6236' (acidized w/1K gals)
- 6861' - 6867' (acidized w/1K gals, frac w/28K #)

DELAWARE BRUSHY CANYON (4/7/05)

- 7018' - 7022' (acidized w/1K gals)
- 7189' - 7200'
- 7392' - 7404'

Acidized 7018-7404 w/1K gals, frac w/38K# 16/30

DELAWARE BRUSHY CANYON (8/12/04)

- 7660' - 7682'

Frac 7660-7682 w/100K# 16/30

7-7/8" Hole

5-1/2", 15.5# & 17#, J55, @ 7,864'

Cmt'd w/1710 sx, circ to surface

TAC @ 7643'

SN @ 7714
 Mud Anchor; EOT @ 7741' (4/3/07)

Tag @ 7810' (4/2/07)

7828' PBTD

7868' TD

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: APACHE 25 FEDERAL 8		Field: QUAHADA RIDGE SE	
Location: 2455' FNL & 1980' FEL; SEC 25-T22S-R30E		County: EDDY	State: NM
Elevation: 3365' KB; 3352' GL		Spud Date: 7/3/04	Compl Date: 8/12/04
API#: 30-015-33439	Prepared by: Ronnie Slack	Date: 8/3/09	Rev:

PROPOSED SWD

17-1/2" hole
13-3/8", 48#, H40, @ 631'
 Cmt'd w/400 sx, circ to surface

11" Hole
8-5/8", 32#, J55, @ 3,849'
 Cmt'd w/1020 sx, circ to surface

DV Tool @ ³⁹⁸²4527'

Formation Tops per cmpl rpt

Rustler	378
Salado	683
Delaware	3866
Cherry Canyon	4813
Brushy Canyon	6425
Bone Spring	7813

Proposed SWD Zone-DELAWARE CHERRY CANYON
Proposed SWD Injection Interval 5678'-5930'
 5678'-5690' (proposed perf add)
 5722'-5746' (proposed perf add)
 5758'-5796' (proposed perf add)
 5854'-5884' (proposed perf add)

DELAWARE CHERRY CANYON (2/15/06)
 5920' - 5930' (acidized w/1K gals, frac w/28K#)

DELAWARE CHERRY & BRUSHY CANYON (2/15/06)
 6058' - 6074' (acidized w/1500 gals)
 6225' - 6236' (acidized w/1K gals)
 6861' - 6867' (acidized w/1K gals, frac w/28K #)

DELAWARE BRUSHY CANYON (4/7/05)
 7018' - 7022' (acidized w/1K gals)
 7189' - 7200'
 7392' - 7404'
 Acidized 7018-7404 w/1K gals, frac w/38K# 16/30

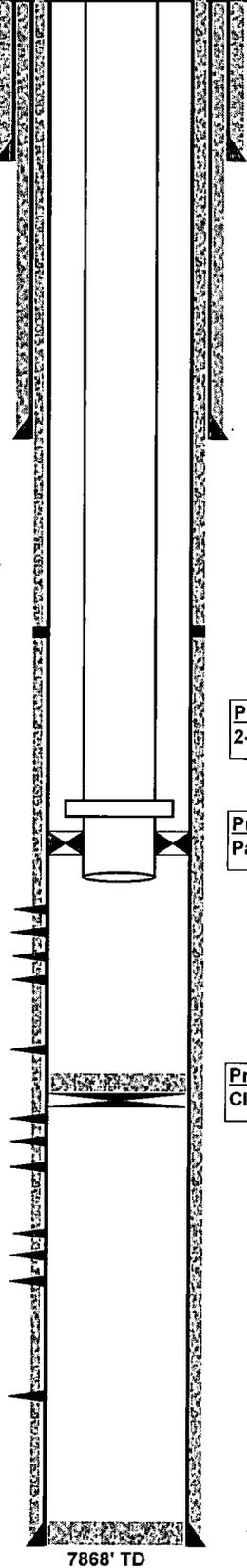
DELAWARE BRUSHY CANYON (8/12/04)
 7660' - 7682'
 Frac 7660-7682 w/100K# 16/30

7-7/8" Hole
5-1/2", 15.5# & 17#, J55, @ 7,864'
 Cmt'd w/1710 sx, circ to surface

Proposed:
 2-7/8" IPC tubing

Proposed:
 Packer @ 5650'

Proposed:
 CIBP @ 6030'. 35' cement on top. 5980' PBD.



7828' PBTD

7868' TD

APACHE 25 FEDERAL #8
API: 30-015-33439
APPLICATION FOR INJECTION
Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Apache 25 Federal
Well No #8
Location 2455' FNL & 1980' FEL
Sec,Twn,Rnge Sec 25-T22S-R30E
Cnty, State Eddy County, NM
- (2) Casing 13-3/8", 48#, H40, @ 631' in 17-1/2" hole. Cmt'd w/ 400 sxs.
Cement circulated to surface
8-5/8", 32#, J55, @ 3849'. Cmt'd w/ 1020 sxs.
Cement circulated to surface
5-1/2", 15.5# & 17#, @ 7864'. Cmt'd w/ 1710 sxs.
Cement circulated to surface
- (3) Injection Tubing 2-7/8", 6.5#, IPC Injection tubing
- (4) Packer 5-1/2" IPC Packer @ 5650'

B. Other Well Information

- (1) Injection Formation: Delaware Cherry Canyon
Field Name: Quahada Ridge SE
- (2) Injection Interval: Delaware Cherry Canyon 5678' - 5930'
- (3) Original Purpose of Wellbore:

Drilled and completed (8/12/04) as an oil producer in the Delaware. Cumulative production is 19 MBO, 36 MMCF, & 334 MBW to date. Last tested 7/14/09 at 1 bopd, 6 mcfd, 98 bwpd.

- (4) Other perforated intervals:

Completed Intervals
Delaware Cherry Canyon 5920'-6236'; Delaware Brushy Canyon 6861'-7682'

- (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.

Delaware 3866; Bone Spring 7813'; Wolfcamp 11170; Strawn 12600; Atoka 12914; Morrow 13138'

225-30E

225-31E

30E

22

15

14

13

18

17

22

23

24

19

20

27

26

25

30

29

34

35

36

31

3

2

1

6

235-31E

Legg Fed 1

Apache 13 Fed 5

Apache 13 Fed 1

Apache 13 Fed 4

Apache 13 Fed 8

Apache 13 Fed 3

Apache 13 Fed 2

Apache 13 Fed 6

Apache 24 Fed 5

Apache 24 Fed 11H

Apache 24 Fed 4

Apache 24 Fed 10

Apache 24 Fed 3

Apache 24 Fed 9

Apache 24 Fed 1

Apache 24 Fed 2

Apache 24 Fed 8

Apache 25 Fed 3

Apache 25 Fed 14

Apache 25 Fed 4

Apache 25 Fed 1

Apache 25 Fed 8

Apache 25 Fed 16

Apache 25 Fed 9

Apache 25 Fed 5

Apache 25 Fed 12

Apache 25 Fed 10H

Apache 25 Fed 2

Apache 25 Fed 7

Apache 25 Fed 10

Apache 25 Fed 11

Apache 25 Fed 13

Apache 25 Fed 14

Apache 25 Fed 15

Apache 25 Fed 17

Apache 25 Fed 18

Apache 25 Fed 19

Apache 25 Fed 20

Apache 25 Fed 21

DEVON

2 Mile Radius

1/2 Mile Radius



Southeast New Mexico

Apache 25 Federal 8

Sec 25-T22S-R30E 2455' FNL & 1960' FEL

0 3.079 FEET

July 9, 2009

DEVON LEASEHOLD MAP
Apache 25 Federal 8
Sec 25-T22S-R30E

11

12

7

18

14

13

23

24

19

NMNM-89051

Devon 100%

22S 30E

22S 31E

NMNM-89052

Devon 100%

26

25

BLM
Unleased

NMNM-91509

Devon 100%

30

35

36

3

31

C108 ITEM VI--Well Tabulation in Review Area																	
Devon Energy Production Company, LP																	
Proposed Disposal Well: Apache 25 Federal 8																	
Operator	Well Name	API NO	County	Footage	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	Apache 25 Federal #8	30-015-33439	Eddy	2455 lnl 1960 lnl	25	22S	30E	Oil	Sh-hwor	7/3/04	8/12/04	7868	7828	Delaware CC/BB Delaware BC Delaware BC	5920-6867 (open)-ok all open 7018-7404 (open) 7660-7682 (open)	13-3/8" H40, 48#, @ 631' 8-5/8" J55, 32#, @ 3849' 5-1/2" J55, 15.5# & 17#, @ 7864' 13-3/8" K55, 54.5#, @ 550' 9-5/8" K55, 40#, @ 3678' 7" S95 & N80, 26#, @ 12317' 4-1/2" liner, 11960' - 14490'	400 sx / surf 1020 sx / surf 1710 sx / surf 750 sx / surf 1400 sx / surf 2440 sx / 1415-calc 330 sx / liner top
Devon Energy Prod Co LP	Apache 25 Federal #1	30-015-27410	Eddy	1730 lnl 660 lnl	25	22S	30E	Gas	Prod	5/6/93	10/14/93	14493	14133	Morrow Atoka Morrow	13911-13916 (open) 12982-12992 (sagc) 14321-14391 (esp-14162) 10984-10944 (open) 11824-12164 (sp-11838/1659) 13076-13084-wet clip-13020) 14113-14132 (esp-14105) 14296-14316-wet	13-3/8" K55, 54.5#, @ 550' 9-5/8" K55, 40#, @ 3678' 7" S95 & N80, 26#, @ 12410' 4-1/2" 13.5# liner, 12006' - 14565'	550 sx / surf 1580 sx / surf 1875 sx / surf 300 sx / liner top
Devon Energy Prod Co LP	Apache 25 Federal #2	30-015-27478	Eddy	660 lnl 1310 lnl	25	22S	30E	Gas	Prod	8/16/03	10/27/93	14575	11536	Morrow	10984-10944 (open) 11824-12164 (sp-11838/1659) 13076-13084-wet clip-13020) 14113-14132 (esp-14105) 14296-14316-wet	13-3/8" K55, 54.5#, @ 550' 9-5/8" K55, 40#, @ 3678' 7" S95 & N80, 26#, @ 12410' 4-1/2" 13.5# liner, 12006' - 14565'	550 sx / surf 1054 sx / surf 1155 sx / 250-cbl
Devon Energy Prod Co LP	Apache 25 Federal #3	30-015-32719	Eddy	660 lnl 330 lnl	25	22S	30E	Oil	Prod	7/11/03	8/10/03	7960	7900	Delaware BC	7636-7660 (open)	13-3/8" H40, 48#, @ 624' 8-5/8" J55, 32#, @ 3812' 5-1/2" J55, 15.5# & 17#, @ 7960	560 sx / surf 1054 sx / surf 1155 sx / 250-cbl
Devon Energy Prod Co LP	Apache 25 Federal #4	30-015-33152	Eddy	1730 lnl 585 lnl	25	22S	30E	Oil	Prod	3/23/04	4/6/04	7769	7723	Delaware BC	7618-7634 (open)	13-3/8" H40, 48#, @ 633' 8-5/8" J55, 32#, @ 3870' 5-1/2" J55, 17#, @ 7760'	550 sx / surf 1000 sx / surf 1775 sx / surf
Devon Energy Prod Co LP	Apache 25 Federal #5	30-015-32720	Eddy	1960 lnl 330 lnl	25	22S	30E	Oil	Prod	3/31/03	5/22/03	11300	9700	Delaware BC Bone Spring Bone Spring Wolfcamp	7571-7588 (open) 9874-10546 (esp-6700/6m) 10950-10975 11121-11134	13-3/8" H40, 48#, @ 596' 8-5/8" J55, 32#, @ 3868' 5-1/2" J55, 17#, @ 11295'	560 sx / surf 1050 sx / surf 1440 sx / 3080-cbl
Devon Energy Prod Co LP	Apache 25 Federal #6	30-015-29694	Eddy	330 lnl 330 lnl	25	22S	30E	Oil	Prod	11/13/97	1/13/98	7870	7774	Delaware CC Delaware BC Delaware	6899-6914 (open) 6520-34; 7065-71 (open) 7326-7384 (open) 7559-7675 (open)	13-3/8" 54.5#, @ 524' 8-5/8" K55, 32#, @ 3847' 5-1/2" J55, 17#, @ 7870'	570 sx / surf 1910 sx / surf 1220 sx / 3500-cbl
Devon Energy Prod Co LP	Apache 25 Federal #9	30-015-32797	Eddy	1960 lnl 1650 lnl	25	22S	30E	Oil	Prod	6/9/03	7/19/03	11230	11170	Bone Spring Wolfcamp	10906-10964 (open) 11109-11125 (open, commingled)	13-3/8" H40, 48#, @ 605' 9-5/8" J55, 32#, @ 3830' 5-1/2" P110, 17#, @ 11230'	560 sx / surf 900 sx / surf 2345 sx / surf
Devon Energy Prod Co LP	Apache 25 Federal #12	30-015-33112	Eddy	1950 lnl 2000 lnl	25	22S	30E	Oil	Prod	12/29/03	1/19/04	7825	7776	Delaware BC	7550-7569 (open)	13-3/8" H40, 48#, @ 616' 8-5/8" HCK55, 32#, @ 3827' 5-1/2" J55, 15.5# & 17#, @ 7825'	725 sx / surf 1000 sx / surf 1470 sx / surf
Devon Energy Prod Co LP	Apache 25 Federal #13	30-015-33440	Eddy	2360 lnl 1960 lnl	25	22S	30E	Oil	Prod	6/9/04	7/14/04	7853	7806	Delaware BC	7620-7636 (open)	13-3/8" H40, 48#, @ 640' 8-5/8" J55, 32#, @ 3830' 5-1/2" J55, 15.5# & 17#, @ 7853'	600 sx / surf 1100 sx / surf 700 sx / surf
Devon Energy Prod Co LP	Apache 25 Federal #14	30-015-33791	Eddy	1254 lnl 330 lnl	25	22S	30E	Oil	Prod	1/16/05	3/23/05	11699	10000	Delaware BC Delaware BC	8066-9482 (open) 10190-11606 (esp @ 10000')	13-3/8" H40, 48#, @ 625' 9-5/8" J55, 40#, @ 3675 7" J55, 23# & 26#, @ 8022' 4-1/2" liner, L80, 11.6#, 7353-11695	600 sx / surf 1350 sx / surf 800 sx / surf 630 sx / liner top
Devon Energy Prod Co LP	Apache 24 Federal #8	30-015-34020	Eddy	330 lnl 330 lnl	25	22S	30E	Oil	Prod	3/29/05	5/21/05	11998	11950	Delaware BC Delaware BC	8123-9633 (open) 10439-11858 (open)	13-3/8" H40, 48#, @ 625' 9-5/8" J55, 40#, @ 3675 7" J55, 26#, @ 7995' 4-1/2" N80, 11.6#, @ 7450-11996	600 sx / surf 1350 sx / surf 1500 sx / surf 475 sx / liner top
Devon Energy Prod Co LP	Apache 25 Federal #16	30-015-34328	Eddy	1980 lnl 660 lnl	25	22S	30E	Gas	Prod	9/21/05	2/3/06	14450	12830	Strawn Atoka Atoka Morrow	12610-12617 (open) 12885-12892 (sagc off, esp 12865) 12999-13308 (esp 12950) 13656-13902 (esp 13590) 14250-14303 (esp @ 14202)	13-3/8" H40, 48#, @ 620' 9-5/8" J55, 40#, @ 3818' 7" P110, 26#, @ 12265' 4-1/2" P110, 13.5#, @ 11928-14450	650 sx / surf 1575 sx / surf 2840 sx / surf 331 sx / liner top
Devon Energy Prod Co LP	Apache 25 Federal #10H	30-015-35597	Eddy	810 lnl 910 lnl	25	22S	30E	Oil	Prod	7/29/07	10/9/07	11420	11336	Delaware BC Delaware BC	8207-9502 (open) 10136-11332 (open)	13-3/8" H40, 48#, @ 637' 9-5/8" J55, 40#, @ 3670' 7" J55, 26#, @ 7935' 4-1/2" N80, 11.6#, @ 7273-11420'	650 sx / surf 1550 sx / surf 1310 sx / surf 485 sx / liner top

C-108 ITEM VI--Well Tabulation in Review Area				Cement Summary			
Operator	Well Name	CBL	DV Tool	Stage #1	Stage #2	Stage #3	
Devon Energy Prod Co LP	Apache 25 Federal #8	Logged from 6000-7799	3982'	Top:4530' Bottom:7864' Full returns? Yes Cmt returned? 30bbbls LEAD Top:4530' Bottom:6000'; 300sxs, Class C, pumped 107bbbls TAIL Top:6000' Bottom:7864'; 1150sxs, Class C, pumped 214bbbls	Top 0' Bottom:4530' Full Returns? Yes, Cmt returned? 7bbbls LEAD Top 0' Bottom:3850' 260sxs, Class C, 95bbbls TAIL Top:3850' Bottom:4530'; 240sxs, Class C, pumped 59bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #1	Logged from 6600-7920', 11700-14436'	7803	LEAD 230sxs TAIL 675sxs	LEAD 435sxs TAIL 1100sxs Preflush & cmt cut mud returns form the 1st stage. Lost 40bbbls 2nd stage		
Devon Energy Prod Co LP	Apache 25 Federal #2	Logged from 11950-14470'	7780'	1000sxs Class C, Pumped 228bbbls	LEAD 550sxs, 195bbbls TAIL 325sxs, 74bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #3	Logged from: 80-304' 1480' - 2300'; 5980-7895' TOC @ 250	4000'	Top:4001' Bottom:7960' FR? No, Cmt Rtn? 2bbbls LEAD Top:6960' Bottom:7960' 165sxs, Class C, 58bbbls TAIL Top:4001' Bottom:6960'; 580sxs, Class C, 129bbbls	Top 0' Bottom:4001' FR? No LEAD Top:18' Bottom:3035'; 260sxs, Class C, 94bbbls TAIL Top:3035' Bottom:4001'; 170sxs, Class C, 41.5bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #4	Logged from 6000-7722 TOC @ Surface	3981'	Top:3980' Bottom:7769' FR? Yes, Cmt Rtn? 17bbbls LEAD 3980' - 5000', 165sxs, Class C, 57bbbls TAIL 5000' - 7769', 910sxs, Class C, 217bbbls	Top 0' Bottom: 3980' FR? Yes Cmt Rtn? 26bbbls LEAD 0' - 3570', 500sxs, Class C, 182bbbls TAIL 3570' - 3980', 200sxs, Class C, 49bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #5	Logged from: 2810' - 3145'; 5982' - 11186'	7780'	Top:7786' Bottom:12295' FR? No, Cmt Rtn? 10bbbls LEAD 7786' - 12295'; 680sxs, Class H, 173bbbls	Top 0' Bottom:7786' FR? No, LEAD 0' - 6400'; 760 sxs, Class H, 312bbbls TAIL 6400' - 7786'; 370sxs, Class H, 88bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #6	Logged from 3300' - 3690'; 6500-7500'	7284	Intermediate: cmt w/1910sxs of cmt to surface.	Production Sting, cmt w/ 1220sxs, TOC @ 3500'		
Devon Energy Prod Co LP	Apache 25 Federal #9	Logged from 6000-11180' - 4700-5300' TOC @ 5100'	7790	Top:7800' Bottom:11230' FR? No, Cmt Rtn? 40bbbls LEAD 7805' - 11220', 720sxs, Class H, 183bbbls	Top:4005' Bottom:7805' FR? No LEAD 4005' - 4600', 160sxs, Class C, 59bbbls TAIL 4600' - 7805'; 810sxs, Class C, 193bbbls	Top 0' Bottom:4005' FR? No, Cmt Rtn? 47bbbls LEAD 0' - 2240', 360sxs, Class C, 133bbbls TAIL 2240' - 4005'; 290sxs, Class C, 71 bbbls	
Devon Energy Prod Co LP	Apache 25 Federal #12	Logged from 6000-7771'	3982'	Top:3991' Bottom:7825' FR? Yes, Cmt Rtn? 15bbbls LEAD 3991' - 5000', 200sxs, Class C, 72bbbls TAIL 5000' - 7825'; 610sxs, Class C, 146bbbls	Top 0' Bottom:3991' FR? Yes, Cmt Rtn? 22bbbls LEAD 0' - 3330', 440sxs, Class C, 160bbbls TAIL 3300' - 3991', 220sxs, Class C, 54bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #13	Logged from 6000-7791' 3820' - 4108' 5970' - 7810'	3968	Top:4009' Bottom:7853' FR? Yes, Cmt Rtn? 22bbbls LEAD 4009' - 5000', 200sxs, Class C, 71bbbls TAIL 5000' - 7853'; 1050sxs, Class C, 251bbbls	Top 0' Bottom:4009' FR? Yes, LEAD 0' - 2500', 250sxs, Class C, 91bbbls TAIL 2500' - 4009'; 250sxs, Class C, 61bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #14	Logged from 7400-7655'	4040'	Intermediate #1, Top 0' Bottom 3860', FR? Yes, Cmt Rtn? 68bbbls LEAD 0' - 3060', 1100sxs, Class C, 400bbbls TAIL 3060' - 3860'; 250sxs, Class C, 61bbbls	Intermediate #2, Top 4043' Bottom 8022' FR? Yes, LEAD 4043' - 5875'; 250sxs, Class C, 89bbbls TAIL 5875' - 8022'; 550sxs, Class C, 133bbbls	Liner: Top 7353' Bottom 11699' FR? Yes LEAD 7353' - 11699'; 630sxs, Class H, 151bbbls	
Devon Energy Prod Co LP	Apache 24 Federal #8	No CBL	3975'	Top: 3980' Bottom:7995' FR? Yes LEAD 3980' - 7745'; 225sxs, Class C, 80bbbls TAIL 7745' - 7995'; 575sxs, Class C, 139bbbls	Top 0' Bottom:3980' FR? Yes LEAD 0' - 3980'; 280sxs, Class C, 101bbbls TAIL 3730' - 3980'; 280sxs, Class C, 68bbbls	Liner: Top 7450' Bottom 11966' FR? Yes LEAD 7450' - 11966, 475sxs, Class H, 113bbbls	
Devon Energy Prod Co LP	Apache 25 Federal #16	CBL-12106-TOC @ 3000' Soz holes shot in 7' csg & cmt sqzd & cnc to surf	5281' 10505	Top 0' Bottom:12265' LEAD 10505' - 12265', 400sxs, Class H, 100bbbls LEAD 5281' - 5381'; 400sxs, Class H, 144bbbls TAIL 5381' - 10505'; 950sxs, Class H, 237bbbls LEAD 0' - 2886'; 250sxs, Class C, 91bbbls TAIL 2886' - 5281'; 840sxs, Class C, 205bbbls	Liner: Top 11928' Bottom 14448' FR? Yes Cmt Rtn? 12bbbls LEAD 11928' - 14448'; 331sxs, Class H, 70bbbls		
Devon Energy Prod Co LP	Apache 25 Federal #10H	No CBL	4001'	Top: 4001' - 7935'; FR? Yes, Cmt Rtn? 80bbbls LEAD 4001' - 7935'; 620sxs, Class C, 222 bbbls TAIL 6000' - 7935'; 315sxs, Class C, 76bbbls	Top:17' Bottom:4001' FR? Yes LEAD 17' - 4001'; 225sxs, Class C, 810bbbls TAIL 3000' - 4001'; 150sxs, Class C, 36bbbls	Liner: Top 7935' Bottom 11420' FR? Yes LEAD 7935' - 11420'; 465sxs, Class H, 116bbbls	

**APACHE 25 FEDERAL #8
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: 1200 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 800 psi
Proposed max injection pressure: 1000 psi
- (4) The proposed injection fluid is produced water from the Delaware that will be re-injected into the Delaware (Cherry Canyon) zone.
- (5) Attached is a water analysis of Delaware produced water from the Apache 24-3 and Apache 25-6 that will be injected in the Delaware zone of the Apache 25 Federal 8.

VIII Geologic Injection Zone Data

The Delaware Cherry Canyon formation from 5678' to 5930' is being submitted for permit for salt water disposal. The Delaware formation is a Permian aged sandstone. The proposed injection interval is 252' thick. The average depth of water report notes aquifers at an average depth of 208'. Surface casings have been set below the average water depth and are cemented to surface in all wells in the review area.

IX Proposed Stimulation

Acid Frac w/3000 gals 15% HCl acid, 65000 gals spectra frac 2500 frac fluid, 5590 gals 10# linear gel flush, and 160000 lb 16/30 proppant.

X Log Data

Well logs have previously been submitted to the OCD.

XI Fresh Water Analysis

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

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, and public legal notification is attached. Devon owns 100% of the leasehold in review area.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Depth Water			
				64	16	4						Well	Water	Column	
C 01916	PRO	ED	ED	4	3	2	21	22S	30E	605068	3582947*	500			
C 02111	MIN	ED	ED	2	2	2	33	22S	30E	605505	3580336*	248	155	93	
C 02637	MON	ED	ED	1	3	3	24	22S	30E	608950	3582377*	759			
C 02638		ED	ED	4	3	3	35	22S	30E	607558	3578948*	528			
C 02638	STK	ED	ED	4	3	3	35	22S	30E	607558	3578948*	528			
C 02723	MON	ED	ED	2	2	3	15	22S	30E	606282	3584363*	651			
C 02724	MON	ED	ED	4	4	2	29	22S	30E	603860	3581329*	503			
C 02950 EXPL	EXP	ED	ED	4	2	4	23	22S	30E	608740	3582576*	845			
C 03015	MON	ED	ED	1	4	3	22	22S	30E	606099	3582353*	1316	262	1054	
C 03220 EXPLORE	MON	ED	ED	1	3	4	33	22S	30E	604911	3579127*	224			

Average Depth to Water: **208 feet**

Minimum Depth: **155 feet**

Maximum Depth: **262 feet**

Record Count: 10

Basin/County Search:

County: Eddy

PLSS Search:

Township: 22S Range: 30E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

<p>WATER ANALYSIS Delaware Disposal Water Apache 25 Fed 6</p>
--



Laboratory Services, Inc.

4016 Fleeta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

Water Analysis

COMPANY Devon Energy

SAMPLE Apache 25-6

SAMPLED BY

DATE TAKEN

REMARKS

Barium as Ba	0
Carbonate alkalinity PPM	0
Bicarbonate alkalinity PPM	80
pH at Lab	6.05
Specific Gravity @ 60°F	1.195
Magnesium as Mg	59,566
Total Hardness as CaCO3	102,700
Chlorides as Cl	192,032
Sulfate as SO4	200
Iron as Fe	33
Potassium	85
Hydrogen Sulfide	0
Rw	0.046 @ 23° C
Total Dissolved Solids	295,500
Calcium as Ca	43,134
Nitrate	35

Results reported as Parts per Million unless stated

Langelier Saturation Index 0.65

Analysis by: Vickie Biggs
Date: 3/5/04

<p align="center">WATER ANALYSIS Delaware Disposal Water Apache 24 Fed 3</p>



Laboratory Services, Inc.
 4016 Fiesta Drive
 Hobbs, New Mexico 88240
 Telephone: (505) 397-3713

Water Analysis

COMPANY Devon Energy

SAMPLE Apache 24-3

SAMPLED BY _____

DATE TAKEN _____

REMARKS _____

Barium as Ba	0
Carbonate alkalinity PPM	0
Bicarbonate alkalinity PPM	92
pH at Lab	5.87
Specific Gravity @ 60°F	1.2
Magnesium as Mg	60,900
Total Hardness as CaCO3	105,000
Chlorides as Cl	188,855
Sulfate as SO4	225
Iron as Fe	45
Potassium	88
Hydrogen Sulfide	0
Rw	0.047 @ 23° C
Total Dissolved Solids	294,600
Calcium as Ca	44,100
Nitrate	33

Results reported as Parts per Million unless stated

Langelier Saturation Index 0.52

Analysis by: Vickie Biggs
 Date: 3/5/04

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

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

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

SUBMIT IN TRIPLICATE

5. Lease Serial No.	NMNM89052
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No.	
8. Well Name and No.	Apache 25 Federal 8
9. API Well No.	30-015-33439
10. Field and Pool, or Exploratory	QUAHADA RIDGE SE
12. County or Parish	EDDY
13. State	NM

a. Type of Well Oil Well Gas Well Other _____

b. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, LP

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

d. Location of Well (Report location clearly and in accordance with Federal requirements)*
2455 FNL 1980 FEL Sec 25 T22S R30E

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

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

3. 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon is filing C108 (Application for Authorization to Inject) with the OCD-Santa Fe Office
Proposed SWD Zone is Delaware Cherry Canyon from 5678' to 5930'.

- MIRU. POOH with 2-7/8" rod pump and production tubing.
- Add additional perforations in Delaware Cherry Canyon at 5678'-5690'; 5722'-5746'; 5758'-5796'; 5854'-5884', 2 spf, 120° phase.
- Set CIBP @ +/-6030' and dump 35' cement.
- Temporarily isolate perfs at 5920-5930. Pump acid frac consisting of 3000 gal 15% HCl and 160000# 16/30 proppant on perforations from 5678' to 5884'. Remove temporary plug over perfs at 5920'-5930'.
- Run 2-7/8", 6.5# IPC tubing and 5-1/2" IPC packer. Set packer @ +/- 5650'.
- Commence water disposal into Delaware Cherry Canyon from 5678' to 5930'.

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

Signed Ronnie Slack Name Ronnie Slack
Title Engineering Technician Date 8/4/2009

This space for Federal or State Office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

Application For Injection in Apache 25 Federal #8
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.
7008 1140 0004 6107 8896

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 Apache 25 Federal #8.

Date Mailed: 8/4/2009

Signature: *Ronnie Slack*

Date: 8/4/2009

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

July 26, 2009

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, the Apache 25 Federal #8, located 2455' FNL & 1980' FEL, Section 25, Township 22 South, Range 30 East, in Eddy County, New Mexico, will be used for salt water disposal. Disposal waters from the Delaware will be injected into the non productive members of the Delaware formation at a depth of 5678'-5930' at a maximum pressure of 1000 psi and a maximum rate of 1200 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 Cromer at (405) 228-4464.

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

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

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

July 26 2009

That the cost of publication is **\$45.99** and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

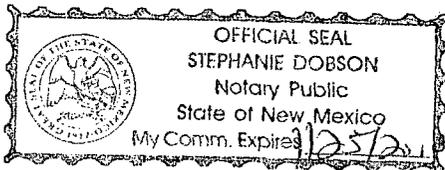
Subscribed and sworn to before me this

27th day of July, 2009

Stephanie Dobson

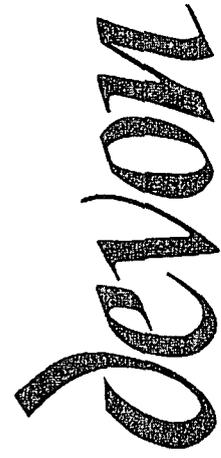
My commission Expires on 1/25/2010

Notary Public



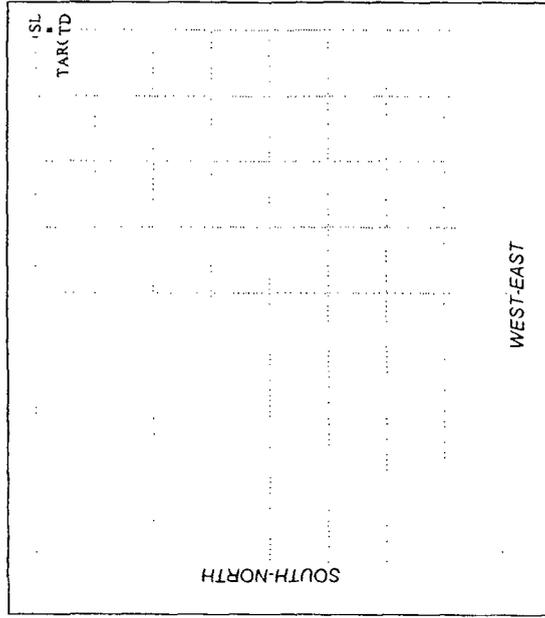
Directional Well Planner
Ramp-Shaped Well

FILE: build and hold.XLS



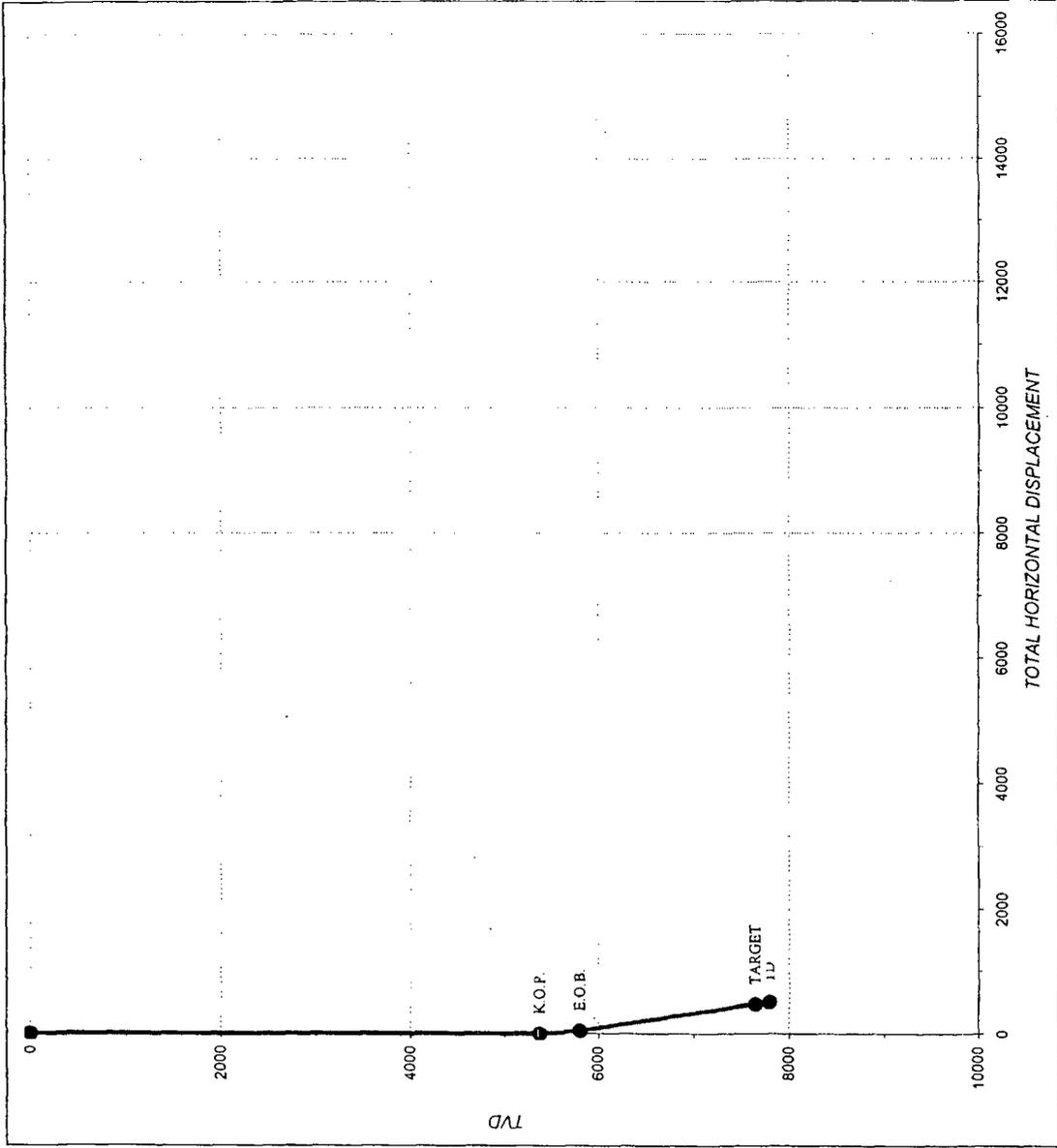
DEVON
Apache 25 Fed #8
Quahada Ridge
UL G, Sec 25, T22S, R30E

3/17/2004



Design Data	MD	TVD	Total Disp.
Kick Off Point	5,375	5,375	0
End of Build	5,808	5,805	49
TD	7,856	7,800	510

	MD	TVD	Distance	Block No.
Surface	0	0		
Target	7,702	7,650		
BHL	7,856	7,800		
ZONE OF INTEREST	6,522	6,500		



Locations & Targets	MD	TVD	Distance	Block No.
Surface	0	0		
Target	7,702	7,650		
BHL	7,856	7,800		
ZONE OF INTEREST	6,522	6,500		

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 50443	Pool Name Quahada Ridge Southeast Delaware
Property Code	Property Name APACHE "25" FEDERAL	Well Number 8
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3352'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	25	22 S	30 E		2455	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	25	22S	30E		1945	NORTH	1980	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
-----------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Karen Cotton</i> Signature</p> <p>Karen Cotton Printed Name</p> <p>Sr. Operations Technician Title</p> <p>March 24, 2004 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p>
	<p>MARCH 18, 2004 Date Surveyed</p> <p><i>[Signature]</i> Signature & Seal of Professional Surveyor</p> <p>7977 REGISTRATION NO.</p> <p>W.O. No. 4065</p>
	<p>Certified by REGIONAL LAND SURVEYOR L. Jones 7977</p> <p>JLP BASIN SURVEYS</p>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM89052
2. Name of Operator DEVON ENERGY PRODUCTION CO L P		6. If Indian, Allottee or Tribe Name
3a. Address 20 NORTH BROADWAY SUITE 1500 OKLAHOMA CITY, OK 73102		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 405.228.8209 Fx: 405.552.4621		8. Well Name and No. APACHE 25 FEDERAL 8
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T22S R30E SWNE 2455FNL 1980FEL		9. API Well No. 30-015-33439-00-X1
RECEIVED AUG 11 2004 OOD-ARTEZIA		10. Field and Pool, or Exploratory QUAHADA RIDGE SE
		11. County or Parish, and State EDDY COUNTY, NM

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

07/03/04 Spud 17 1/2" hole
07/04/04 Ran 13 jts 13 3/8" 48# H40 ST&C csg @ 631'. Cmt lead w/ 400 sx Class C, tail w/ 250 sx Class C. Circ 120 sx to pit. WOC 24 hrs.
07/07/04 Pressure test csg to 1000 psi--held.
07/11/04 TD 11" hole @ 3849'
07/12/04 Ran 85 jts 8 5/8" 32# J55 @ 3849'. Cmt lead w/ 820 sx Class C, tail w/ 200 sx Class C. Circ 103 sx to pit. WOC 24 hrs.
07/13/04 Test csg to 1000 psi -- held.
07/23/04 TD @ 7868'. Circ & cond hole. Tight hole- stuck drillpipe.
07/25/04 Back off @ 7050'. TOOH, TIH to work fish.
07/30/04 TOOH w/ fish. Lay down fish. Log well.
07/31/04 Ran 174 jts 15.5# & 17# J55 LT&C csg @ 7864'. Cmt lead w/ 300 sx Poz 35:65 & tail w/

14. I hereby certify that the foregoing is true and correct. Electronic Submission #34229 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO L P, sent to the Carlsbad Committed to AFMSS for processing by LINDA ASKWIG on 08/09/2004 (04LA0651SE)	
Name (Printed/Typed) LINDA GUTHRIE	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 08/06/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	LES BABYAK Title PETROLEUM ENGINEER	Date 08/09/2004
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #34229 that would not fit on the form

32. Additional remarks, continued

1150 sx 60:40 Poz. Circ 85 sx to pits off DV tool. Cmt stg 2 lead w/ 260 sx 35:65 Pozmix & tail
w/ 240 sx 60:40 Pozmix. Circ 20 sx to pit.
08/01/04 Released rig.

@ 3982'



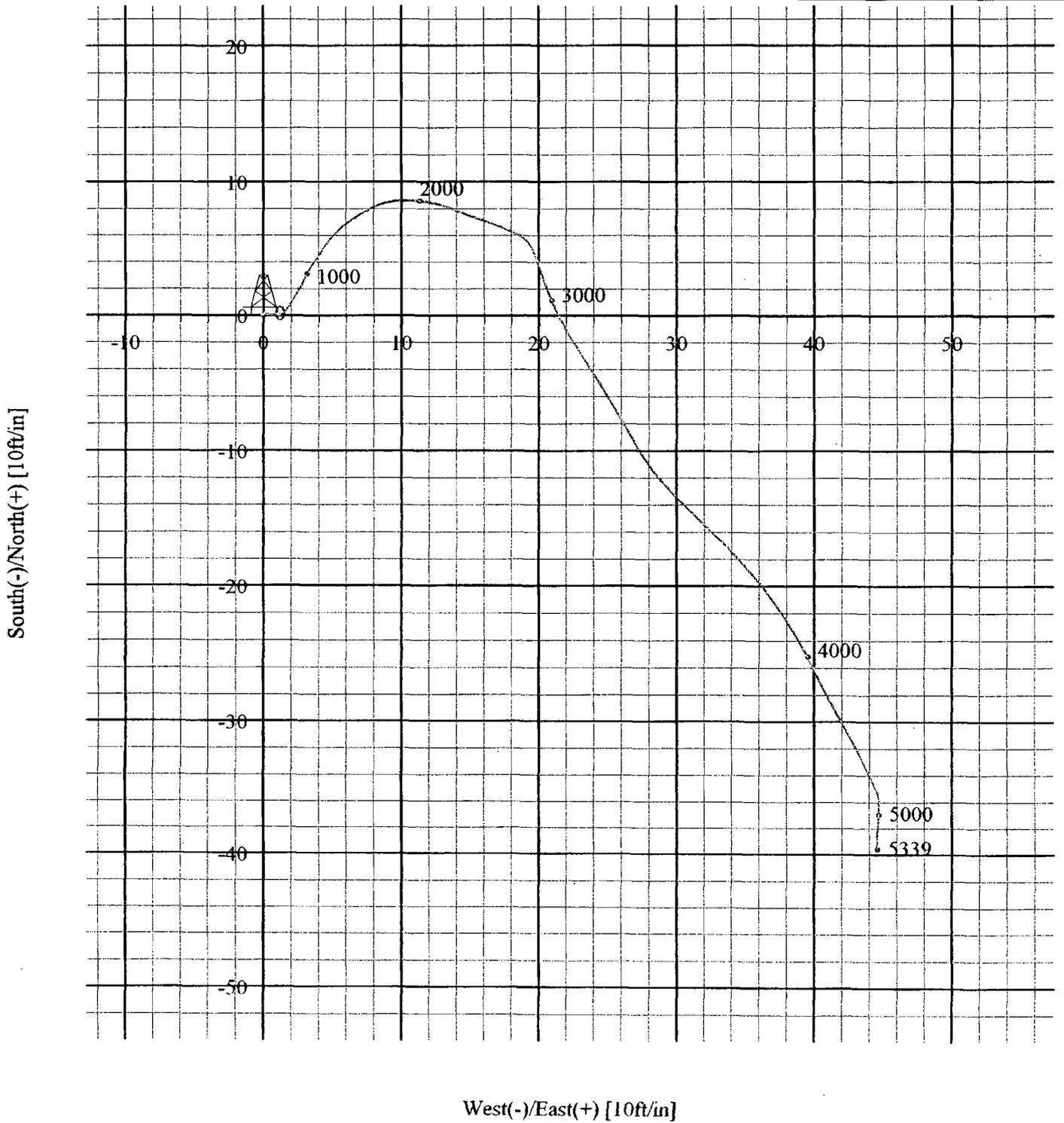
Scientific
Drilling

Field: Quahada Ridge, SE
Site: Eddy County, NM
Well: Apache 25 Fed. #8
Wellpath: VH - Job #32K0704440
Survey: 07/15/04

GTM

Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 8/12/2004
Model: igr2000



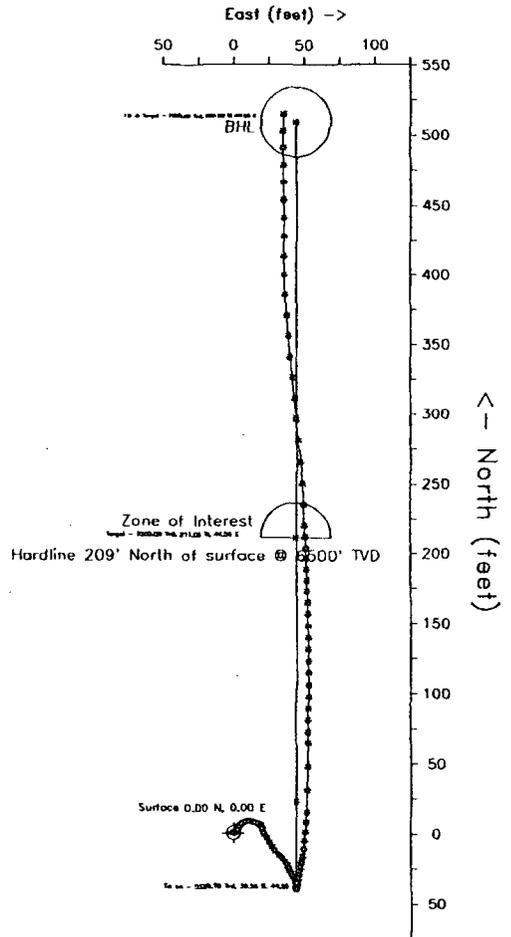
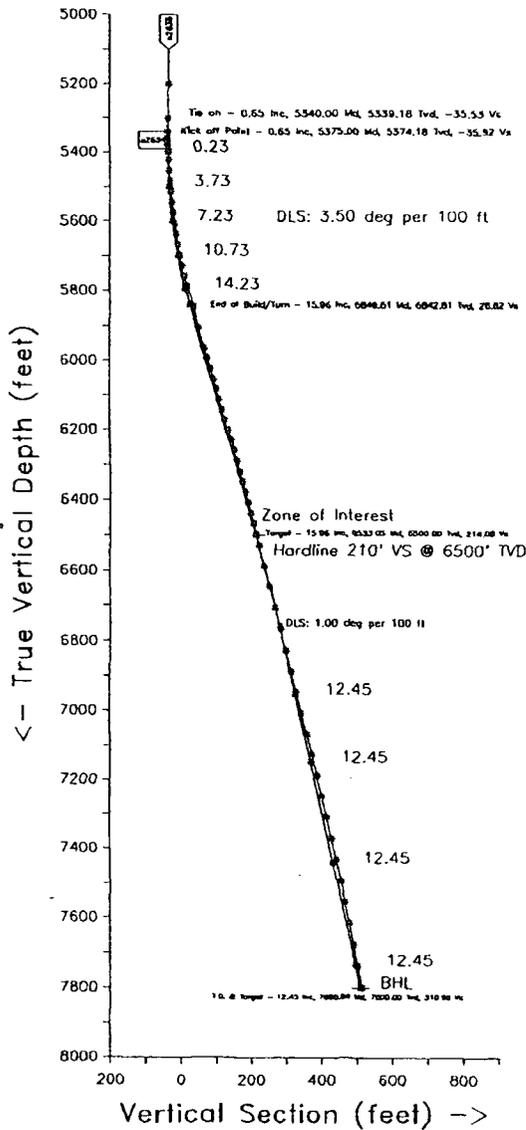
DEVON ENERGY

Created by adryann
 Date plotted : 27-Jul-2004
 Plot Reference is Pin 2.
 Coordinates are in feet reference structure.
 True Vertical Depths are reference structure.
 appdva
 --- Baker Hughes INTEQ ---

Structure : Apache 25 Fed No. 8 Slot : slot #1
 Field : Quahada Ridge (Delaware) Location : EDDY COUNTY, NM.

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	5340.00	0.65	185.28	5339.18	-39.56	44.55	-35.53	0.00
KOP	5375.00	0.65	185.28	5374.18	-39.96	44.51	-35.92	0.00
End of Build/Turn	5849.51	15.96	0.06	5842.81	23.05	44.34	26.82	3.50
Target Zone of Interest	6533.05	15.96	0.06	6500.00	211.00	44.55	214.08	0.00
KOP	6884.10	12.45	0.00	6840.26	297.13	44.60	299.89	1.00
T.D. & Target BHL	7866.94	12.45	359.97	7800.00	509.00	44.55	510.95	0.00



Approved By: _____
 Title: _____
 Date: _____



Azimuth 5.00 with reference 0.00 N, 0.00 W from structure

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

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

Do not use this form for proposals to drill or re-enter an abandoned well. Use Form 3160-5A for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED
MAR 28 2006
OCC-ARTS/DM

1a. Type of Well Oil Well Gas Well Other _____

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

3. Address and Telephone No.
20 North Broadway, Ste 1500, Oklahoma City, OK 73102 405-552-7802

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
**2455' FNL & 1980' FEL
Sec 25 T22S R30E Unit G**

5. Lease Serial No.
NMNM89052

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Well Name and No.
Apache 25 Federal 8

9. API Well No.
30-015-33439

10. Field and Pool, or Exploratory
Quahada Ridge SE; Cherry Canyon

12. County or Parish 13. State
Eddy NM

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

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

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)

02/14/05 - 03/15/06:

MIRU PU. POOH w/rods, pmp & tbg. RU WL & perf Cherry Canyon 5920-30', 6058-74', 6225-36', & 6861-67'; (2 SPF) 86 shots. Set RBP @ 6950'. Set pkr to 6882' flush w/150 bbls of 2% KCL. PUH pkr @ 6758' & acidize 6861'- 6867' w/1000 gal 7.5% Pentol acid & 200 ball slrs. PUH w/pkr @ 6758'. Swab, flow back. RIH w/swab to SN. Frac 6861'-6867' w/28,000# 16/30 Ottawa RC sn --screened out with 7 ppg slug hitting perfs. Unset pkr, rev out sn w/100 bbls of 2% KCL. Rls pkr & POOH w/tbg & co sn. Dmp 2 sx sn dwn tbg, pmp to EOT. RIH w/tbg & pkr above top perf. POH w/tbg & pkr. Reperf 6861'-6867'; (6 SPF) 12 holes. Set pkr @ 6758', swab. Acidize & refrac w/1000 gal 7.5% Pentol acid, 11,000 gal Spectra Star 2500 w/28,000# 16/30 Ottawa & RC & 6000# 16/30 Siberprop. Flush w/1680 gal 2% KCL. Swab. Rls pkr, RIH w/retr tool, set RBP @ 6788'. PUH pkr @ 6124'. Swab. Acidized 6225'-6236' w/1000 gal 7.5% Pentol acid, flush w/2% KCL. Swab. Rls RBP, MUH @ 6186', rls pkr reset @ 5989'. Acidize 6058'-6074' w/1500 gal 7.5% Pentol acid w/48 ball slrs. Rls pkr, swab. Rls pkr, POOH. Pkd up ON/OFF tool, rls plug set @ 5993'. POOH w/ON/OFF tool, set pkr @ 5802'. Swab. Acidize 5920'-5930' w/1000 gal 7.5% Pentol acid. Swab. Rls pkr, rev tbg clean. POOH w/pkr & SD. Frac w/28,000# 16/30 Ottawa & RC. RIH w/ON/OFF tool. Rls plug, POOH w/tbg, RIH w/blr. POOH w/blr. POOH w/RPB & RIH w/prod tbg, pmp & rods. Hung well on. Well turned over to production.

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

Signed _____ Name Stephanie A. Ysasaga
Title Sr. Staff Engineering Technician Date 3/20/2006

(This space for Federal or State Office use)

ACCEPTED FOR RECORD

Approved by DAVID R. GLASS Title _____ Date _____

Conditions of approval _____

MAR 24 2006

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

DAVID R. GLASS
PETROLEUM ENGINEER

*See Instruction on Reverse Side

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, August 14, 2009 11:15 AM
To: 'Slack, Ronnie'
Cc: 'Wesley_Ingram@blm.gov'; Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD
Subject: FW: Injection Application from Devon Energy - Apache 25 Fed 8 SWD

Hello Ronnie:

I have not yet looked at this application - but since Wesley has these specific concerns, please let Wesley and myself know what you think? Specifically let us know what the plan would be for concerns #1 and #3 below? Please send wellbore diagrams with DV tools and cement tops (above and below) marked for these two wells.

Regards,

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

-----Original Message-----

From: Wesley_Ingram@blm.gov [mailto:Wesley_Ingram@blm.gov]
Sent: Friday, August 14, 2009 8:18 AM
To: Jones, William V., EMNRD; Warnell, Terry G, EMNRD
Cc: Shannon_Shaw@blm.gov; Fesmire, Mark, EMNRD
Subject: RE: Injection Application from Devon Energy - Apache 25 Fed 8 SWD

Will,

Regarding the conversion of the Apache 25 Fed 8 SWD, the BLM has the following comments regarding wells within the 0.5 mile radius:

1. Well 30-015-27410 has an unknown TOC. TOC needs to be verified.
2. Well 30-015-32720 has cement top at 3080' which is above proposed injection zone. 
3. Well 30-015-27478 has estimated TOC of 3400'. TOC may or may not cover injection zone.

Thanks, Wesley

This inbound email has been scanned by the MessageLabs Email Security System.

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, August 17, 2009 3:10 PM
To: 'Slack, Ronnie'
Cc: Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Reeves, Jacqueta, EMNRD; Gray, Darold, EMNRD; 'Wesley_Ingram@blm.gov'
Subject: Disposal application from Devon: Apache 25 Federal #8: 30-015-33439 Cherry Canyon

Cancelled 8/17/09

Hello Ronnie:

After reviewing your application, we have the following questions or requests – (i) primarily related to ensuring cement coverage within this well and surrounding wells and (ii) that proper notice was provided. This is a proposed disposal well directly offsetting the WIPP site, and the ½ mile AOR extends into the WIPP area.

1. Please look at the post drill deviation survey and let us know the bottom hole location of the proposed Cherry Canyon disposal interval (bottom of interval).
2. Has Devon surveyed this area (within 1 mile) for windmills or other drinking water wells which would not be recorded on the State Engineer's web site?
3. Why was the completed and produced interval from 5920 to 5930 proposed to be included as the lowermost disposal interval? Was it considered to be relatively water bearing?
4. How does Devon know the proposed injection interval does not contain hydrocarbons? Please send a water saturation calculation or copy of a mudlog over this interval.
5. Please send a production plot of this well (with applicable open perforations marked) from the first date of production to the last.
6. Why was this well chosen for disposal rather than the other wells?
7. The DV tool depth on your wellbore diagram is different from that marked on the CBL (see the OCD imaged well logs). Which is correct?
8. The completion information on this well shows that cement circulated on both sides of the DV tool (both stages circulated). However, the CBL for this well (in the OCD imaging system) does not go to the depths you are proposing to use for disposal – and the included CBL (interval over the DV tool depth) does not show cement below or above the tool – is this a mistake or was the cement used so thin that the CBL did not pick it up? Was this the typical cementing program for all these wells?
9. For all wells in Section 25, please research the DV tool setting depth and determine if cement circulated in the cementing stages below and above these tools. Include that data either on wellbore diagrams of all these wells or in the spreadsheet data for these wells. If the wells have CBL's run on them, please record which ones on the spreadsheet and send copies of the CBL's to the Hobbs office for scanning into the OCD imaging system.
10. Please notice the nearest Potash lessee and send proof of this notice (this area is included in the Potash area defined in R-111-P).
11. Does Devon own (control) the mineral rights within the Delaware in the W/2 W/2 of offsetting Section 30 (to the east of your well)?
12. Please note: Due to the proximity to the WIPP site, this well (if permitted for disposal) may never be allowed a higher injection pressure than the 0.2 psi/ft gradient.
13. Please send proof of notice to the following State and Local managers of the WIPP. (We would likely require this notice even if the proposed disposal site was further from the WIPP area):

Anne Clarke
NM Radioactive Waste Consultation Task Force Coordinator
1220 South Saint Francis Drive
Santa Fe, NM 87505

Rodger Nelson
WIPP Chief Science Officer



RECEIVED

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

405 235 3611 Phone
www.devonenergy.com

2009 AUG 31 PM 2 02

August 25, 2009

Oil Conservation Division
1625 N French Dr.
Hobbs, NM 88240

RE: Apache 25 Federal 8 (C108 submittal)
Offset well logs for scanning into the OCD imaging system
Eddy County, NM
Section 25, T22S, R30E

Gentlemen:

In reviewing Devon's Apache 25 Federal #8 for SWD, we found that the following logs for these offset wells are not scanned into the OCD imaging system. We submit these copies for your files and scanning.

Apache 25 Federal #4 (30-015-33152); CBL-4/13/04
Apache 25 Federal #5 (30-015-32720); CBL-5/13/03
Apache 25 Federal #6 (30-015-29894); CBL-4/16/00; Platform Express/Induction-12/1/97
Apache 25 Federal #9 (30-015-32797); CBL-7/16/03
Apache 25 Federal #14 (30-015-33791); CBL-2/27/05

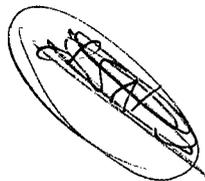
If you have any questions, you can contact Ronnie Slack at (405)-552-4615.

Sincerely,

Ronnie Slack
Engineering Technician

RS/rs
Enclosure

cc: William V. Jones PE (OCD in Santa Fe)
OKC central files



Jones, William V., EMNRD

From: Jackson, Kale [Kale.Jackson@dvn.com]
Sent: Tuesday, September 01, 2009 10:13 AM
To: Jones, William V., EMNRD
Cc: Slack, Ronnie
Subject: RE: SWD application from Devon near WIPP: Apache 25#8 SWD into Bell Canyon
Attachments: Apache 25 Fed 8 well review area.xls; Campana.xps

Mr.. Jones,

Sorry it took me so long to get back to you. I hope you find the information I'm sending you to be helpful in answering all of your questions.

Kale:

Thank you for these answers to questions.

I am confused as to why you included (attached) the C-108 application, since we got it from Ronnie in the mail – is this a revised version?

I went ahead and sent you an electric copy for your own use. Ronnie and I had a lot of spreadsheets/paper work everywhere and I didn't send you the right excel sheet with the updated list of DV tool depth and top of cement. Where should I look for the updated spreadsheet of Area of Review wells showing cement tops above and below the DV tools? I liked those well diagrams you sent for the wells that Wesley had a question about. Since this is near the WIPP site, we need to be absolutely convinced that all surrounding cement tops are fine to release this permit. So the well diagrams would be great – but the spreadsheet will work if all details are there. **I'm sending those to you today. Everything should be in an easy to read/understand format that should help answer your questions about our drilling program. If there are still some wells in question, can we pressure up on the backside like I talked about in the last email so that we can prove TOC is inside the casing shoe?**

It does seem there was some breakdown while cementing some of these wells. Could you say something about the typical cement types used in these jobs? I.e. what was in the lead and the final stages. Both above the DV tool and below. **These are all included in the spreadsheet.**

Where is the current SWD for this area? What API number and what injection interval? **The current SWD in this area is the Campana 1 SWD. As per Jim Cromer, the BLM has been monitoring us about our injection pressure. Since we have been close to reaching this max injection pressure, we have been looking into other wells in the area that could handle this same amount of water. This is where the Apache 25#8 comes into play. This well is to replace the Campana SWD and comply with the BLM, while still maintaining our current level of bbls of water injected/day.**

The Campana is located in section 6 blk 22S 31E. 1980' FNL & 660' FWL. API # 30-015-21098. I'm also sending you a detailed schematic of this well. Injection interval is: 5947' - 6012'

From: Jackson, Kale [mailto:Kale.Jackson@dvn.com]
Sent: Thursday, August 27, 2009 10:31 AM
To: Jones, William V., EMNRD; Wesley_Ingram@blm.gov

Cc: Cromer, James; Slack, Ronnie
Subject: Apache 25#8 SWD

Gentleman,

I have been working on this SWD project from the start, and taken some time to answer the questions both of you have emailed Ronnie about. TOC for all the wells within the radius requested have been scanned and are currently being sent to the Hobbs office. If any questions should arise from any of these two documents, don't hesitate to contact Jim, Ronnie, or myself.

<<Apache 25#8 Q&A.doc>> <<Apache 25 Fed 8 C108 submittal.pdf>>
Thanks,

Kale Jackson
Engineer: SENM
Cell: (405) 208-0358
Direct: (405) 552-5310

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This inbound email has been scanned by the MessageLabs Email Security System.

1. Please look at the post drill deviation survey and let us know the bottom hole location of the proposed Cherry Canyon disposal interval (bottom of interval).

Top perf @ 5675': 50'; E 9' S

Bottom perf @ 5930': 52' E; 51' N

2. Has Devon surveyed this area (within 1 mile) for windmills or other drinking water wells which would not be recorded on the State Engineer's web site?

After reviewing the NMOSE web site in the township and range of 22S 30E we found that no water wells were in section 25 or within a 1 mile distance. Our field personnel also checked for water wells that were not reported on the web site and found this information above to be correct.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q Q Q			X	Depth Depth Water						
				64	16	4		Sec	Tws	Rng	Y	Well	WaterColumn	
C 01916	PRO	ED		4	3	2	21	22S	30E	605088	3582947*	500		
C 02111	MIN	ED		2	2	2	33	22S	30E	605505	3580336*	248	155	93
C 02637	MON	ED		1	3	3	24	22S	30E	608950	3582377*	759		
C 02638		ED		4	3	3	35	22S	30E	607558	3578048*	528		
C 02638	STK	ED		4	3	3	35	22S	30E	607558	3578048*	528		
C 02723	MON	ED		2	2	3	15	22S	30E	606282	3584363*	651		
C 02724	MON	ED		4	4	2	29	22S	30E	603860	3581329*	503		
C 02950 EXPL	EXP	ED		4	2	4	23	22S	30E	608740	3582576*	845		
C 03015	MON	ED		1	4	3	22	22S	30E	606099	3582353*	1316	262	1054
C 03220 EXPLORE	MON	ED		1	3	4	33	22S	30E	604911	3579127*	224		
											Average Depth to Water:		208 feet	
											Minimum Depth:		155 feet	
											Maximum Depth:		262 feet	

Record Count: 10

Basin/County Search:

County: Eddy

PLSS Search:

Township: 22S Range: 30E

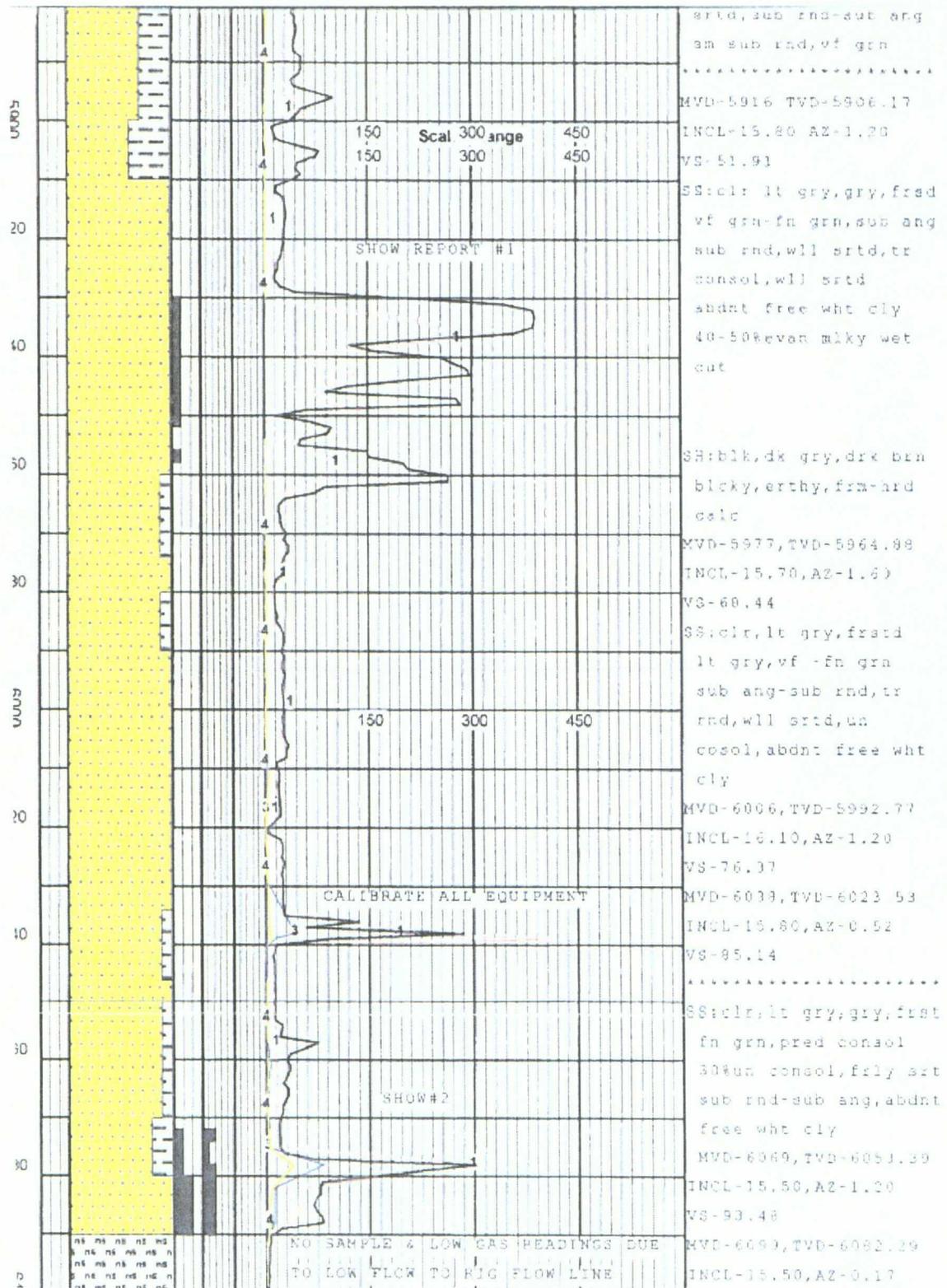
3. Why was the completed and produced interval from 5920 to 5930 proposed to be included as the lowermost disposal interval? Was it considered to be relatively water bearing?

The current perforations for the Apache 25#8 had log correlations to other producing well intervals in the same area. The perforated interval above was the only zone that was highly water saturated and did not correlate to any producing wells. This zone also had a thick shale barrier beneath it. These set of perms were then identified to be a prime candidate for water injection. The other set of perforation determined for

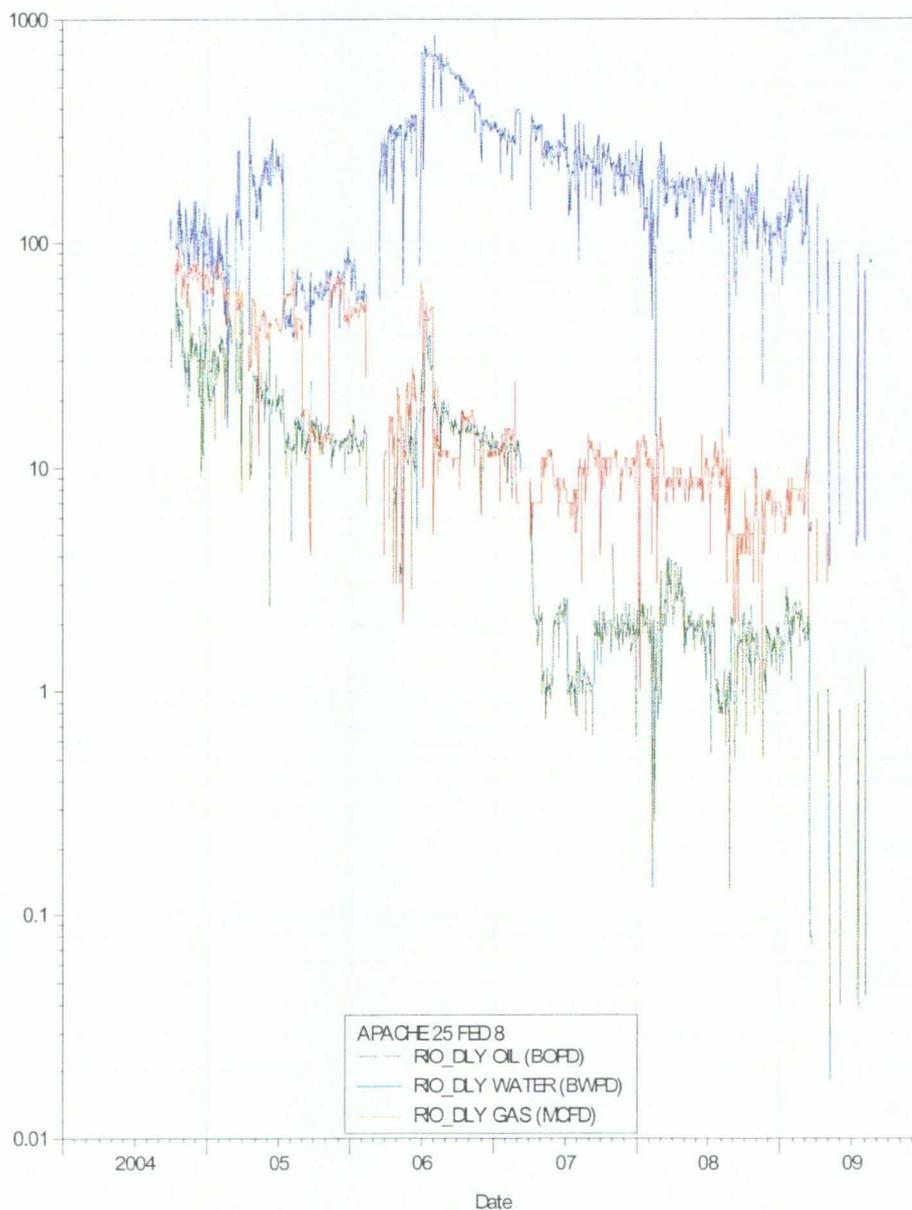
water injection were determined based off high permeability and porosity in a non hydrocarbon bearing zone. An upper zone consisting of intervals: 5065' – 5105', 5110' – 5210', 5240' – 5295', 5305' – 5335', 5345' – 5395 was indentified as another ideal zone that could be opened up when economically feasible, as well as, if the need should arise for additional capacity for increased water injection for future drilled wells.

4. How does Devon know the proposed injection interval does not contain hydrocarbons? Please send a water saturation calculation or copy of a mud log over this interval. Mud logs showed that the only zone bearing hydrocarbons was the interval of 5920-5930 which has now watered-out.

<p>CORPORATION _____</p> <p>B _____</p> <p>22-S Rge. 30-E Blk. _____</p> <p>API _____</p> <p>State: <u>NEW MEXICO</u></p> <p>GL. 3352'</p> <p>Spud Date: _____</p> <p>To 7868'</p> <p>To 7/24/04</p> <p>ER Unit 15</p>	<p>MORCO GEOLOGICAL SERVICES</p> <p>Carlsbad, New Mexico - (800) 748-2340</p>																																																																																																																																
<p>CATIONM=1945'FNL&1980'FEL</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Shale</td> <td style="width: 33%;"> Limestone</td> <td style="width: 33%;"> Salt</td> </tr> <tr> <td> Siltstone</td> <td> Dolomite</td> <td> Igneous</td> </tr> <tr> <td> Sandstone</td> <td> Anhydrite</td> <td> Metamorphic</td> </tr> <tr> <td> Conglomerate</td> <td> Chert</td> <td> No Sample</td> </tr> </table> <p>Total Gas Calibration: 100 Gas Units = 1% Methane Equivalent</p> <p>Chromatograph Calibration: 1 Unit = 100 ppm of each component</p> <p>Total Gas Detector Type: Catalytic Combustion Filament (Hot Wire)</p> <p>Chromatograph Type: Catalytic Combustion Filament (Hot Wire)</p> <p>Extractor Evacuation Rate: 10 Standard Cubic Feet per Hour</p>	Shale	Limestone	Salt	Siltstone	Dolomite	Igneous	Sandstone	Anhydrite	Metamorphic	Conglomerate	Chert	No Sample																																																																																																																				
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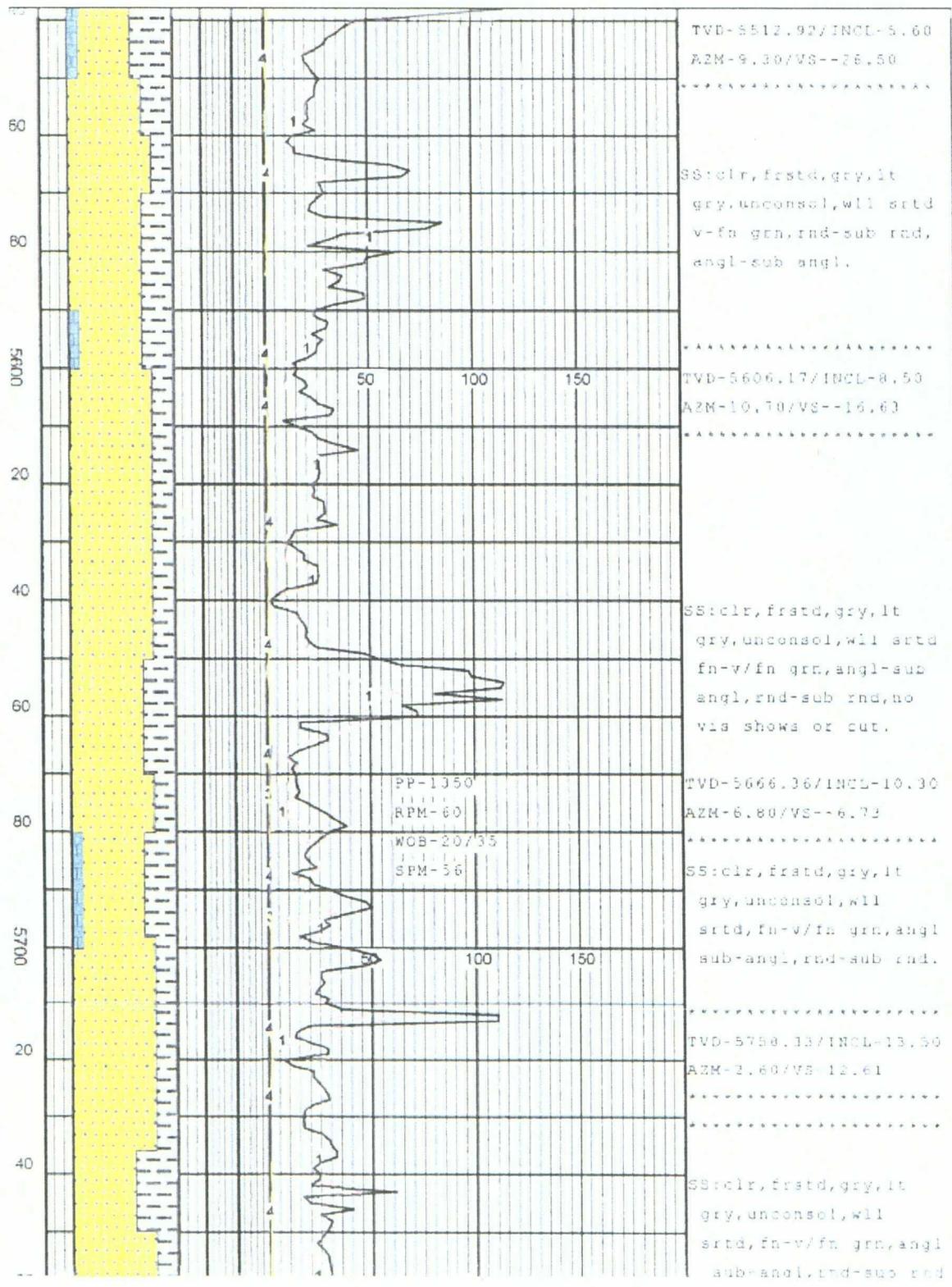
5. Please send a production plot of this well (with applicable open perforations marked) from the first date of production to the last.



7/30/04: Perforated 7660' – 7682'; 4/4/05: Perforated 7018' – 7404'; 2/14/06: Perforated 5920' – 6867'.

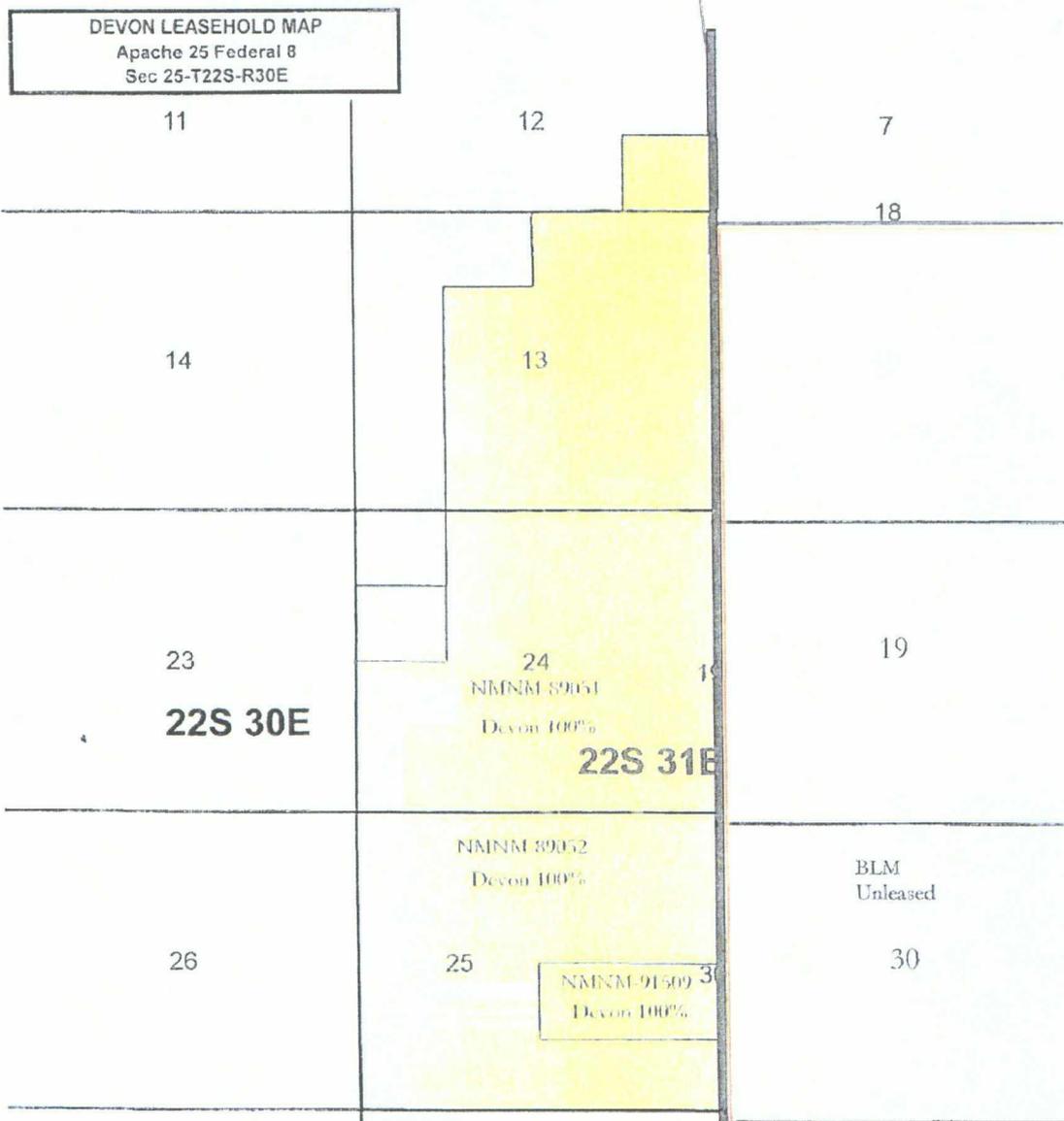
6. Why was this well chosen for disposal rather than the other wells?

As you can see from the production graph above, this well is uneconomic due to the extremely high water cut. Rather than P&A this well, we found that this would be a prime candidate for an injection well. We are looking at the future, and with more



*Current
5/20/09
See 6
015-21088*

Devon does not own the mineral rights in that section. BLM owns the land and it is
unleased. We have sent the appropriate paper work to notify them.



12. Please note: Due to the proximity to the WIPP site, this well (if permitted for disposal)
may never be allowed a higher injection pressure than the 0.2 psi/ft gradient.
Are you taking this from surface? I.e. from top perf: 5678ft * .2 psi/ft = 1136psi?

13. Please send proof of notice to the following State and Local managers of the WIPP. (We
would likely require this notice even if the proposed disposal site was further from the
WIPP area):

We are sending out a PON this week.

assume 2/4/09

wells being drilled, we are looking to lessen our dependency on the Campana SWD to handle our water injection. The Apache 25#8 is in close proximity to the Campana SWD, as well as, the producing wells in the area. It would be easy to move and reuse most of the equipment at the Campana facility and use it on the 25#8 in order to avoid high facility costs.

7. The DV tool depth on your wellbore diagram is different from that marked on the CBL (see the OCD imaged well logs). Which is correct?
The OCD log was correct of the DV tool @ 3982'. After reviewing our own logs, we found that the well report in which we looked for the DV tool was entered into our well files wrong by field personnel. It has since been updated.
8. The completion information on this well shows that cement circulated on both sides of the DV tool (both stages circulated). However, the CBL for this well (in the OCD imaging system) does not go to the depths you are proposing to use for disposal – and the included CBL (interval over the DV tool depth) does not show cement below or above the tool – is this a mistake or was the cement used so thin that the CBL did not pick it up? Was this the typical cementing program for all these wells?
**Cement was circulated above and below the DV tool. The log was then cut off when they established that cement had been directed and bonded in both directions.
After looking at all the CBL logs in the area, the results were mixed. Some logs were run from TD to surface, others had just the producing interval logged, and others ran a log over the producing interval then moved to the DV tool and noted TOC. Since these wells seem to vary so greatly, the best way to go about looking at the top of cement is to look at the drilling reports and see if they circulated returns to the surface. Most if not all of our wells have cement to surface. With any wells in question, the best method to check TOC without having to pull a well and spend the money running a bond log would be to pressure up on the backside. If the pressure holds, we know that the cement is well within the casing shoe. The economics are not favorable to pull 14 wells and run CBL's from top to bottom.**
9. For all wells in Section 25, please research the DV tool setting depth and determine if cement circulated in the cementing stages below and above these tools. Include that data either on wellbore diagrams of all these wells or in the spreadsheet data for these wells. If the wells have CBL's run on them, please record which ones on the spreadsheet and send copies of the CBL's to the Hobbs office for scanning into the OCD imaging system.
We are including an attached spreadsheet for these wells. Hopefully with the additional information, it will be easier to see what I was trying to convey in the paragraph above. I'm also attaching a spreadsheet of calculations we did on the TOC of those wells in question.
10. Please notice the nearest Potash lessee and send proof of this notice (this area is included in the Potash area defined in R-111-P). *assume*
We are sending out a PON this week. *Sept 4/09*
11. Does Devon own (control) the mineral rights within the Delaware in the W/2 W/2 of offsetting Section 30 (to the east of your well)?

KMJ- Petroleum Engineer SENM (8/19/09)

In addition to the information above, I'm also noting some of Wesley Ingram's questions concerning the following:

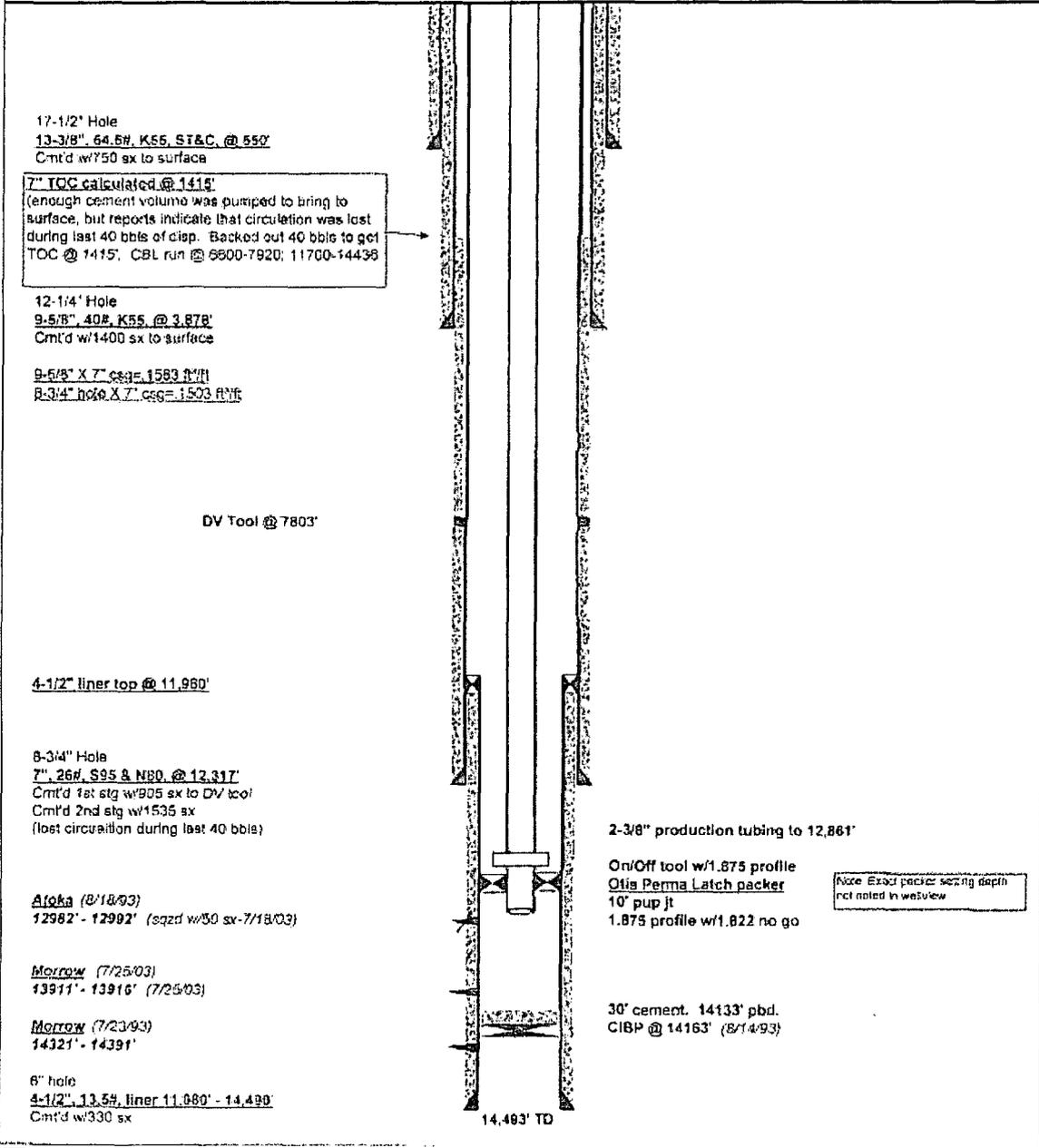
1. Well 30-015-27410 has an unknown TOC. TOC needs to be verified.
2. Well 30-015-32720 has cement top at 3080' which is above proposed injection zone.
3. Well 30-015-27478 has estimated TOC of 3400'. TOC may or may not cover injection zone.

I'm providing schematics and the resulting calculations done to indentify TOC for these wells. To help with the questions above, please take a look at the schematics provided and their explanation. With the top injection perf of 5678ft, the concerns regarding TOC should cover this injection zone. For further testing, see question #8.

Apache 25 #1:

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: APACHE 25 FED #1		Field: LOS MEDANOS	
Location: 1730' FNL & 660' FEL, SEC 25-T22S-R30E		County: EDDY	State: NM
Elevation: 3366' GL		Spud Date: 5/5/93	Compl Date: 10/14/93
API#: 30-015-27410	Prepared by: Ronnie Slack	Date: 8/17/09	Rev:



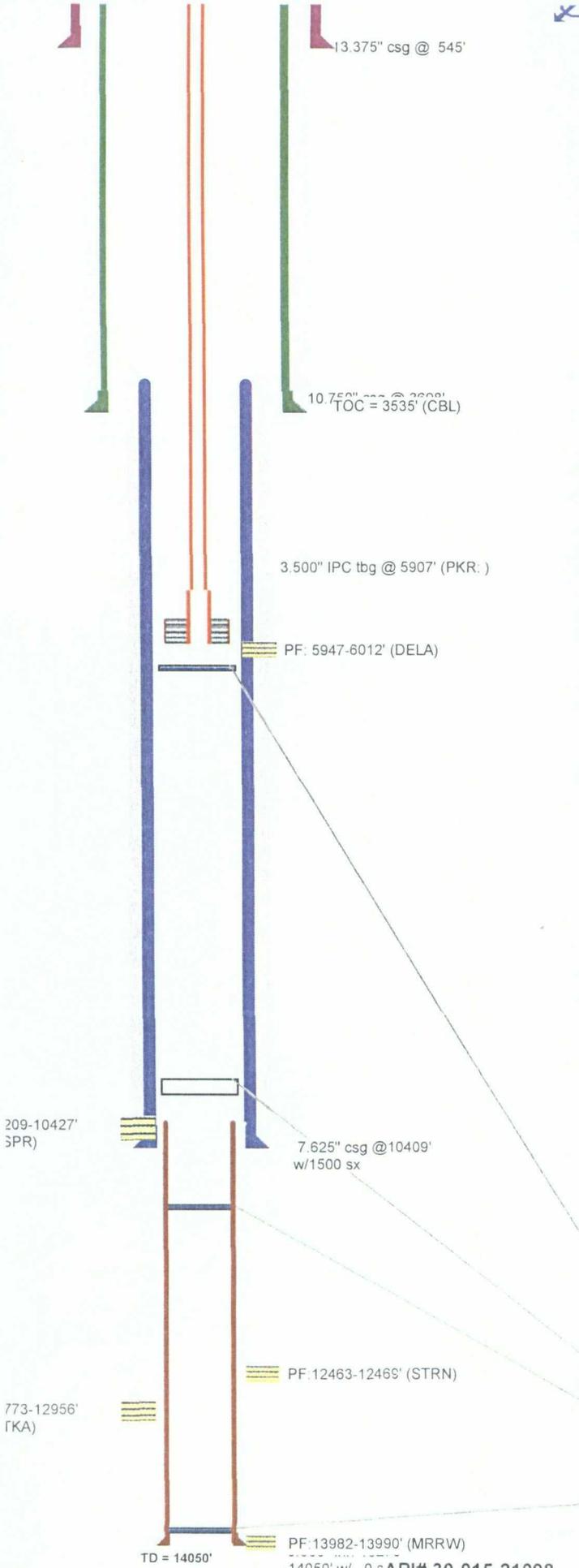
Last updated by:
 Jim Cromer 12/18/2006

<u>Surface Casing Record</u>	
13.375" / 54.50# / K-55 / 8RD @ 545'	
<u>Intermediate Casing Record</u>	
10.750" / 40.00# / J-55 / 8RD @ 3698'	
45.00# / J-55 / 8RD @ 3698'	
<u>Production Casing Record</u>	
7.63" / 26.40# / N-80 / 8RD @ 10409'	
39.00# / CS95 @ 10409'	
<u>Production Liner Record</u>	
5.00" / 0.00# / / @ 10276'-14050'	
<u>Tubing Record</u>	
3.500" / 9.30# / J-55 / 8RD @ 5907'	

Well History (spudded 02/19/1974):

8/74. DC. Set 5" liner @ 14050'. Tested Morrow, Atoka, Strawn, Bone Spring, all unsuccessful. Plugged and abandoned.

7/04 - re-entry to convert to SWD in Delaware. Ran CBL from 6310' - 3500' and csg inspection log fm 6320' up to 3506'. TOC @ top of liner (3535'). PF 5947' - 6012' 4 SPF. Set 7-5/8" CIBP @ 6200', dump 1 bailer cmt. ACDZ w/ 3k g 7.5% NEFeHCl+ 300 BS. Min PSI 625, MAX 1989#, AIP = 1384 @ 6.3 BPM. ISDP 625 PSI. Set inj pkr @ 5907' on 3 1/2" tbg in 15k# compression. Ran MIT test. OK.



TUBING DETAIL

Descrip.	Jts	O.D.	Wt	Gr	Conn	Depth Int'vl
TBG JNT(S)	1	3.500	9.3	J-55	/EUE	16- 47
TBG SUB	1	3.500	9.3		/EUE	47- 58
TBG JNT(S)	185	3.500	9.3		/EUE	58- 5885

- Plugs:**
- CIBP @ 6165'
 - CMT @ 9871'
 - PKR @ 11012'
 - CIBP @ 13920'

Perf Detail

Interval	spf	Date

Form 3160-5
(June 1990)

NEW MEXICO OIL AND GAS COMMISSION
RECEIVED
JUN 11 11 52 AM '93
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Bureau Bureau No. (100-111)15
Expires: March 31, 1994

SUNDY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or to enter to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
NM 89052

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement Designation
N/A

8. Well Name and No.
Apache #25 Fed No. 1

9. API Well No.
30-015-27410

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Eddy County, New Mexico

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mitchell Energy Corporation

3. Address and Telephone No.
P. O. Box 4000, The Woodlands, Texas 77387-4000 (713) 377-5855

4. Location of Well (Page, Sec., T., R., M., or Survey Description)
1730' FNL and 660' FEL (SE/NE)
Section 25, T22S, R30E

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 Csg & Cmtg
	<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

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.)*

5/13/93 - 5/17/93 Drld 8-3/4" hole to 7780'. Ran open-hole logs.

5/18/93 - 6/4/93 Drld 8-3/4" hole to 12317'. Ran open-hole logs.

6/5/93 - 6/8/93 Ran 280 jts (12320') 7" 26# S-95 & N-80 LT&C LSS csg. Set float shoe @ 12317', FC @ 12226', DV @ 7803'. Ppd 10 BFW + 500 gals Super Flush + 10 BFW. Cmtd w/230 sx Halliburton Light + 0.3% Halad 322 (12.4 ppg, 1.97 ft³/sx) and 675 sx 50/50 Poz + 2% gel + 6% salt + 0.3% Halad 322 (14.2 ppg, 1.30 ft³/sx). Disp w/464 bbls mud. PD @ 1045 hrs 6/5/93 w/1680 psi. Float held. Open DV tool and circ 6 hrs. Circ cmt preflush from above DV tool. Ppd 10 BFW + 500 gals Super Flush + 10 BFW. Cmtd w/435 sx Halliburton Light + 0.3% Halad 322 (12.4 ppg, 1.97 ft³/sx) and 1100 sx 50/50 Poz + 2% gel + 6% salt + 0.3% Halad 322 (14.2 ppg, 1.30 ft³/sx). Disp w/294 bbls mud. Lost circ during last 40 bbls of disp. PD @ 1820 hrs 6/5/93 w/2300 psi. DV did not close. Attempted 4 times inc press up to 3000 psi and DV would not close. Hold pressure. WOC. ND BOP. Set slips w/300,000#. Cut-off 7" csg. NU 11" - 5000 x 7-1/16" - 10,000 (bg spool. Test seals to 4000 psi. NU 10,000 psi BOP. Test BOPE, chk lines, valves and manifold to 5000 psi. Test hydril to 3500 psi. Install wear bushing. Drill out DV tool 7685-7875'.

6/9/93 Drld 6" hole to 12426'. PU 3-1/2" DP. Tag TOC @ 12130'. Test csg to 2000 psi for 15 min. DOC. Drill 15' new formation. Close hydril and pressure to 1200 psi for 15 min. (EMW test to 12.0 ppg mud). Displace hole w/10.0 ppg brine.

14. I hereby certify that the foregoing is true and correct.
Signature: George W. Tullios Title: District Drilling Manager Date: 6/9/93

Approved by _____ Title _____ Date _____
Conditions of approval, if any.

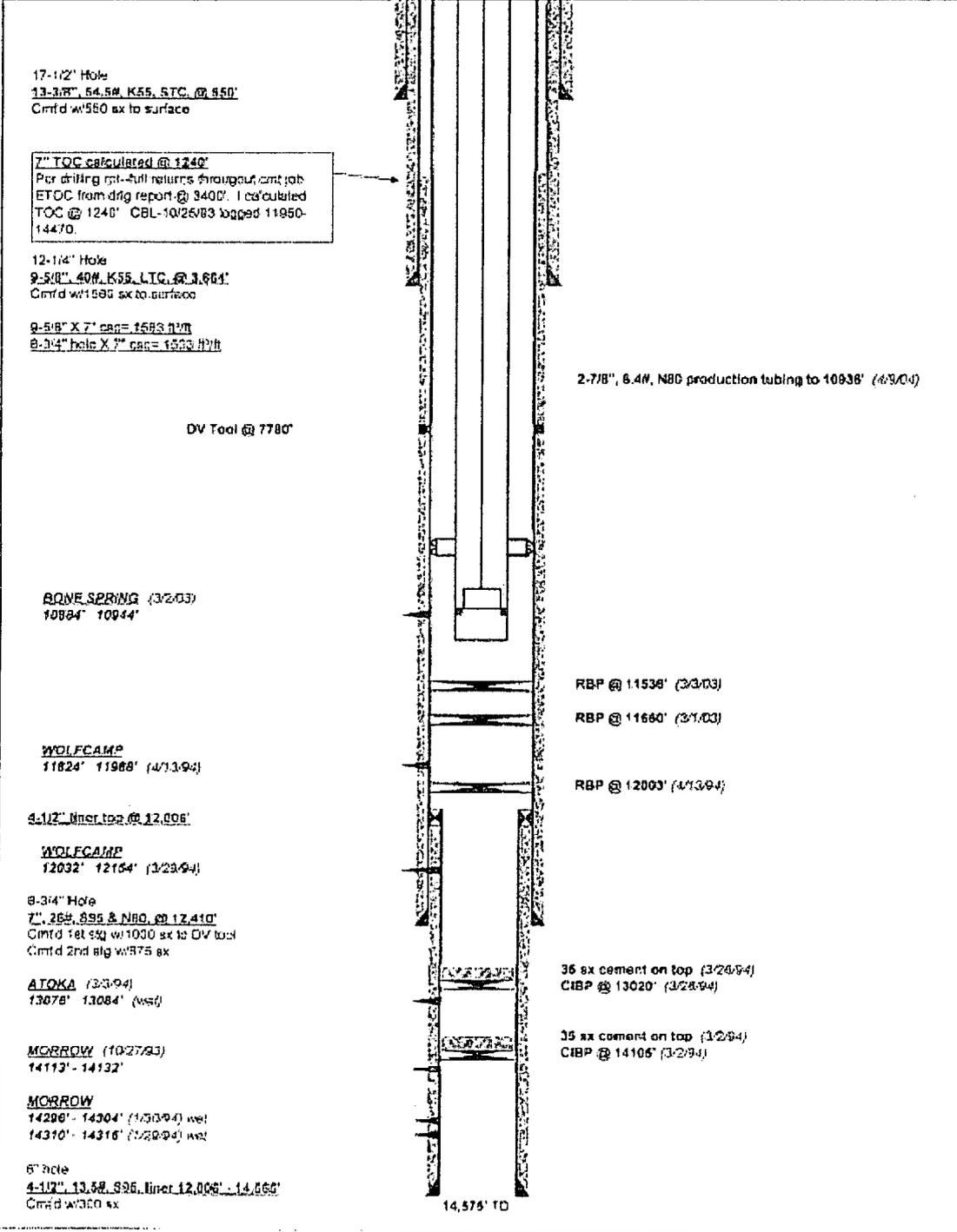
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Apache 25 #2:

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: APACHE 25 FED #2		Field: LOS MEDANOS	
Location: 660' FSL & 1310' FEL SEC 25-T22S-R30E		County: EDDY	State: NM
Elevation: 3336' GL		Spud Date: 8/16/93	Compl Date: 10/27/93
API#: 30-015-2747B	Prepared by: Ronnie Sieck	Date: 8/20/09	Rev:



Form 3160-5
(June 1990)

RECEIVED
SEP 23 10 23 AM '93

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 deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0111
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM 89052

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Apache "25" Fed Com #2

9. API Well No.
30-015-27478

10. Field and Prod. or Exploratory Area
Wildcat

11. County or Parish, State
Eddy County, New Mexico

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mitchell Energy Corporation

3. Address and Telephone No.
P. O. Box 4000, The Woodlands, TX 77387-4000 (713) 377-5855

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1310' FEL and 660' FSL
Section 25, T22S, R30E

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

TYPE OF SUBMISSION	TYPE OF ACTION
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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
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	<input type="checkbox"/> Conversion to Injective
	<input type="checkbox"/> Dispose Water

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 meters and cones pertinent to this work.)

8/28/93 - 9/4/93 Drid 8-3/4" hole to 7825'. Ran open-hole logs.

9/5/93 - 9/20/93 Drid 8-3/4" hole to 12417'. Ran open-hole logs.

9/21/93 - 9/22/93 Ran 287 jts (12407') 7" 26# N-80 & S-95 LT&C USS & LSS csg. Set FS @ 12410'; FC @ 12321'; DV tool @ 7783'. Cmtg w/1000 sx 50/50 Poz/H + 5% salt + 2% gel + 0.5% CF-2 + 0.2% Diacec LWL (14.26 ppg, 1.28 ft³/sx). PD w/1700 psi @ 0430 hrs (MDT) 9/21/93. Did not bump plug. Full returns. Float held. Drop DV opening bomb and open DV tool. Cmtg w/550 sx Pacsetter Lite + 6% gel + 0.15% Diacec LWL (12.36 ppg, 1.99 ft³/sx) and 325 sx 50/50 Poz/H + 5% salt + 2% gel + 0.5% CF-2 (14.26 ppg, 1.28 ft³/sx). PD @ 1000 hrs 9/21/93 w/1900 psi. Closed DV tool. Full returns throughout. Est TOC @ 3400'. ND BOPs. Set slips w/283,000# csg wt. Install 10000 psi tbg spool. Test seals to 4000 psi. NU BOPs. Test BOPs, chk man and lines and valves to 10000 psi; hydril to 3500 psi.

14. I hereby certify that the foregoing is true and correct
 Signed George W. Tullos Title District Drilling Manager Date 9/22/93

(This space for Federal or State office use)
 Approved by _____ Title _____
 Conditions of approval, if any: _____

ACCEPTED FOR RECORD
 OCT 20 1993
 CARLETON, NEW MEXICO

Title 18 U.S.C., Section 1001, makes it a crime for any person knowingly and willfully to make in 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

Apache 25#8:

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: APACHE 25 FEDERAL B		Field: QUAHADA RIDGE SE	
Location: 2455' FNL & 1980' FEL SEC 25-T22S-R30E		County: EDDY	State: NM
Elevation: 3365' KB; 3352' GL		Spud Date: 7/3/04	Compl Date: 8/12/04
API#: 30-015-33439	Prepared by: Ronnie Stock	Date: 8/18/09	Rev:

PROPOSED SWD

17-1/2" hole
 13-3/8" 48# H40 @ 831'
 Cmt'd w/400 sx, circ to surface

11" Hole
 8-5/8" 32# J55 @ 3,848'
 Cmt'd w/1020 sx, circ to surface

DV Tool @ 3982' (per col-5/5/04)
 (dv tool noted at wrong depth of 4527' on csg rpt)

Proposed SWD Zone DELAWARE CHERRY CANYON
Proposed SWD Injection Interval 5678'-5930'
 5678'-5690' (proposed perf add)
 5722'-5748' (proposed perf add)
 5758'-5798' (proposed perf add)
 5854'-5884' (proposed perf add)

DELAWARE CHERRY CANYON (2/15/06)
 5920' - 5930' (acidized w/1K gal/s, frac w/28K#)

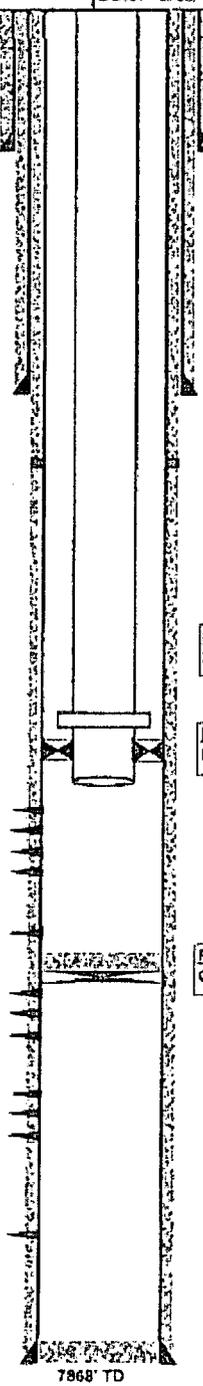
DELAWARE CHERRY & BRUSHY CANYON (2/15/06)
 6058' - 6074' (acidized w/1500 gal/s)
 6225' - 6236' (acidized w/1K gal/s)
 6861' - 6867' (acidized w/1K gal/s, frac w/28K #)

DELAWARE BRUSHY CANYON (4/7/05)
 7018' - 7022' (acidized w/1K gal/s)
 7189' - 7200'
 7392' - 7404'
 Acidized 7018-7404 w/1K gal/s, frac w/28K# (1630)

DELAWARE BRUSHY CANYON (8/12/04)
 7660' - 7682'
 Frac 7660-7662 w/0.03K# 18/30

7-7/8" Hole
 5-1/2" 15.5# & 17# J55 @ 7,864'
 Cmt'd w/1710 sx, circ to surface

Formation Tops per cml rpt	
Rustler	378
Salado	683
Delaware	3866
Cherry Canyon	4813
Brushy Canyon	6425
Bone Spring	7813



Proposed:
 2-7/8" IPC tubing

Proposed:
 Packer @ 5650'

Proposed:
 CIBP @ 6030' 38' cement on top. 5980' PBD.

7828' PBTD

7868' TD

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, September 29, 2009 2:33 PM
To: 'Slack, Ronnie'
Cc: Brooks, David K., EMNRD; Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; 'Wesley_Ingram@blm.gov'; Clark, Anne, EMNRD; Reeves, Jacqueta, EMNRD; Inge, Richard, EMNRD
Subject: Disposal application from Devon: Apache 25 Federal #8: 30-015-33439 Cherry Canyon next to WIPP

Hello Ronnie:

Sorry for the delay and thank you and the other folks at Devon for sending the requested data.

We talked this over today and concerns I still have are:

- a. Have you received any feedback from the federal WIPP people? If you have a waiver from them, that would be best.
- b. Are any of the deviated wells within AOR actually deviated above this proposed injection interval? Or is the KOP's below this?
- c. The CBL on this well does not (to me) show cement above and below the DV tool even though the cement should be definitely above the Tool – how does this look to you? Sorry if this is duplicated question from before.
- d. Would you send Bradenhead surveys and/or pressure tests on all intermediate-production casings within AOR to verify the cement top on production pipe is into the intermediate casing shoe and to verify there are no bradenhead flows. Please call our Artesia OCD office and ask if they wish to witness this work.
- e. Please send a simple stick diagram of all wells in the AOR showing DV tool depths and cement tops above and below these DV tools (best estimates) with the injection interval also marked on each well.

Because of proximity to WIPP, we will let you know soon if this must go to hearing, but meanwhile please address the above points?

Regards,

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

Tracking:

Recipient

'Slack, Ronnie'
Brooks, David K., EMNRD
Ezeanyim, Richard, EMNRD
Warnell, Terry G, EMNRD
'Wesley_Ingram@bim.gov'
Clark, Anne, EMNRD
Reeves, Jacqueta, EMNRD
Inge, Richard, EMNRD

Read

Read: 9/29/2009 2:34 PM

Jones, William V., EMNRD

From: Jackson, Kale [Kale.Jackson@dvn.com]
Sent: Friday, November 06, 2009 12:49 PM
To: Jones, William V., EMNRD
Subject: Apache 25#8
Attachments: Apache 25#8 SWD Directional Survey.xls; Apache Pressure Tests.doc; DV stick diagram.xls

Mr. Jones,

I had sent this email to Jim Cromer Monday so he could be caught up to speed and add any extra input into my answers. Let me know as soon as you can on any details regarding this well.

Thanks,

Kale Jackson
Petroleum Engineer: SENM
Cell: (405) 208-0358
Direct: (405) 552-5310

From: Jackson, Kale
Sent: Tuesday, November 03, 2009 11:05 AM
To: Cromer, James
Subject: Apache 25#8

We talked this over today and concerns I still have are:

a. Have you received any feedback from the federal WIPP people? If you have a waiver from them, that would be best.

I talked to Ross Kirkes from the WIPP about a month ago and walked him through everything we were planning to do. I sent him all information regarding our new frac procedure in the Apache 25#8 and spent about 30min on the phone discussing various questions he had asked me. He seemed like there wasn't much for concern.

Ronnie had called to follow up with Ross (10-8-09), but he said that it was now in the hands of the higher ups at the WIPP & DOE. He recommended this project to the DOE that Devon would be approved to convert this well to an SWD. He acted like it was up to the DOE to approve this project. Have you heard anything back from either Ross or the DOE?

b. Are any of the deviated wells within AOR actually deviated above this proposed injection interval? Or is the KOP's below this?

All wells showed that the deviations were minimum through all injection zones. I am attaching a list of these deviations.

<<Apache 25#8 SWD Directional Survey.xls>>

c. The CBL on this well does not (to me) show cement above and below the DV tool even though the cement should be definitely above the Tool – how does this look to you? Sorry if this is duplicated question from before.

From an engineering standpoint, this well looks fine. The CBL looks the way it does, because sometimes they release the pressure when they log across the DV because the pressure is not noted on the log above that

Hello Ronnie:

Would you please scan or "copy and scan" the existing bond log for this well from "below the intended injection interval" extending up to "above the top of the DV tool" and email or overnight it to me? The log as shown on the web site does not cover the intended injection interval and shows ringing collars below and above the DV tool. You guys sent an explanation, but this seems odd.

Depending on what you send me, probably should be prepared to run another bond log with and without internal pressure on the 5-1/2 inch casing.

Thank You,

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

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Jones, William V., EMNRD

From: Kirkes, G Ross [grkirke@sandia.gov]
Sent: Wednesday, October 21, 2009 3:04 PM
To: Jones, William V., EMNRD
Subject: RE: Apache 25 Fed #8

Very good. I will be in the office all day tomorrow, if that's possible.

Ross

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Wednesday, October 21, 2009 3:02 PM
To: Kirkes, G Ross
Subject: RE: Apache 25 Fed #8

Ross:
I am back from a 2 week absence and will try to call you?

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

From: Kirkes, G Ross [mailto:grkirke@sandia.gov]
Sent: Thursday, October 08, 2009 9:03 AM
To: Jones, William V., EMNRD
Subject: Apache 25 Fed #8

William:

I am working for the DOE WIPP Project and have reviewed the Application for Authorization to Inject at the Apache 25 Fed #8. I would like to discuss this proposal with you when possible.

Thank You,

Ross Kirkes
JHA P.A.
Sandia National Laboratories
575-234-0187

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*Bond LOGS To Verify
Cement + CIRCULATION
use new wells > 1960s
penetration MAX pressure
model stand OK
now 1.5 km from boundaries
Castille in wave*

Jones, William V., EMNRD

From: Slack, Ronnie [Ronnie.Slack@dvn.com]
Sent: Friday, November 06, 2009 12:22 PM
To: Jones, William V., EMNRD
Cc: Jackson, Kale; Cromer, James
Subject: RE: Disposal applications near the WIPP site

Hi Will,

Kale has compiled the additional information that you requested in your email dated 9/29/09 for the Apache 25 Fed #8. It took a bit of time to coordinate/schedule the pressure testing on wells in the review area and then compile. You should be getting a response back from Kale next week.

Thanks,

Ronnie Slack

Operations Technician
Devon Energy Corporation
CT 3.033
(405) 552-4615 (office)
(405) 552-1415 (fax)
Email: Ronnie.Slack@dvn.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Friday, November 06, 2009 12:36 PM
To: Slack, Ronnie; Jose L. Velez
Cc: Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD
Subject: Disposal applications near the WIPP site

Hello Ronnie and Jose:

We have two and will soon have three pending applications for disposal near the WIPP site. You each have one here in my office. I have not received the third.

Today I talked with the Sandia Labs scientist assigned to the DOE WIPP project and he has been looking at each of these. He is meeting next week with the DOE and will call me immediately with any concerns they express after he makes his recommendation to them. I think he is in favor of allowing your applications to be approved – so I expect this DOE decision will come out fine for you both.

However, I have asked each of you for additional notices and additional information and am sorting through your applications today to see if we have received a reply and what the resulting application looks like.

Ronnie: I don't seem to have a reply from you to the latest email I sent on Sept 29 – did your guys reply to that? And what is the schedule to reply?

Jose: I received a nice package from you and don't see any discussion of a waiver from Yates – but do see you noticed them again, so this is probably OK. I will look it over today and if OK will prepare the permit for release when DOE gives me the OK – hopefully by the end of next week or first of the week after.

Thank you both,

William V. Jones PE

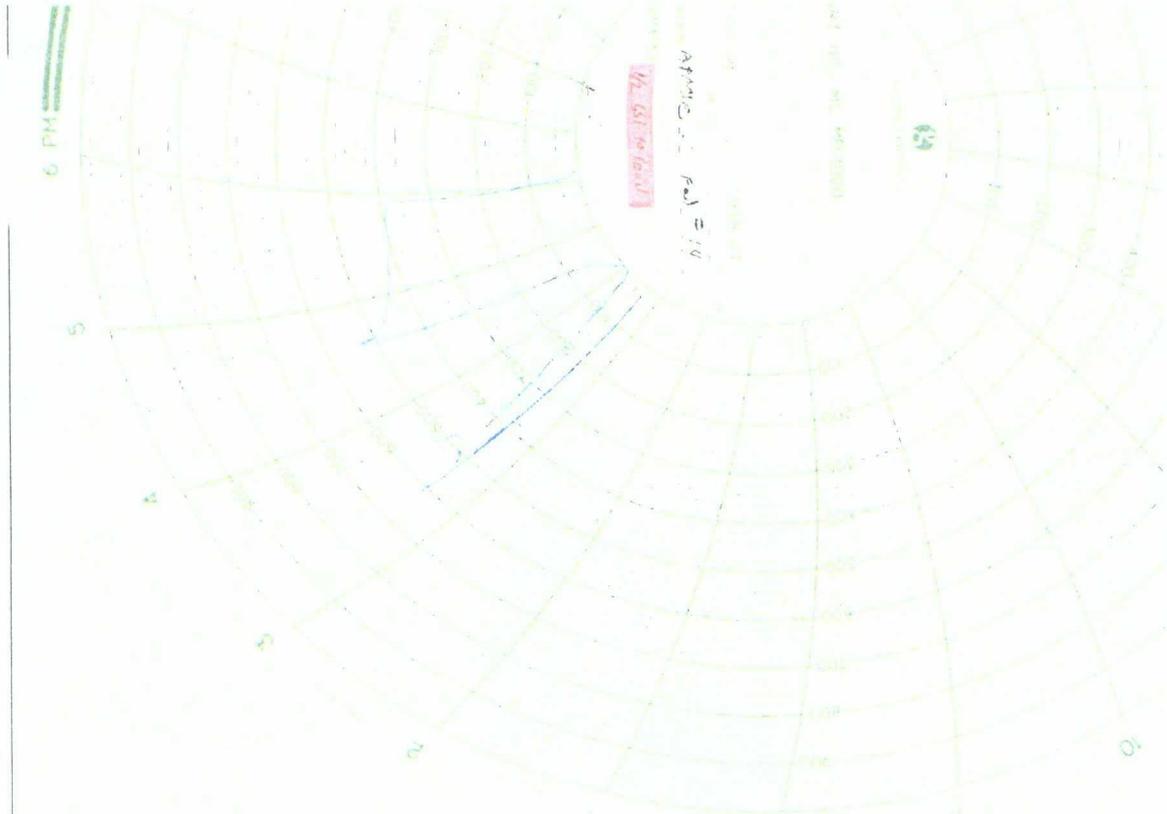
Here is a list of wells that failed.

T.O.C.

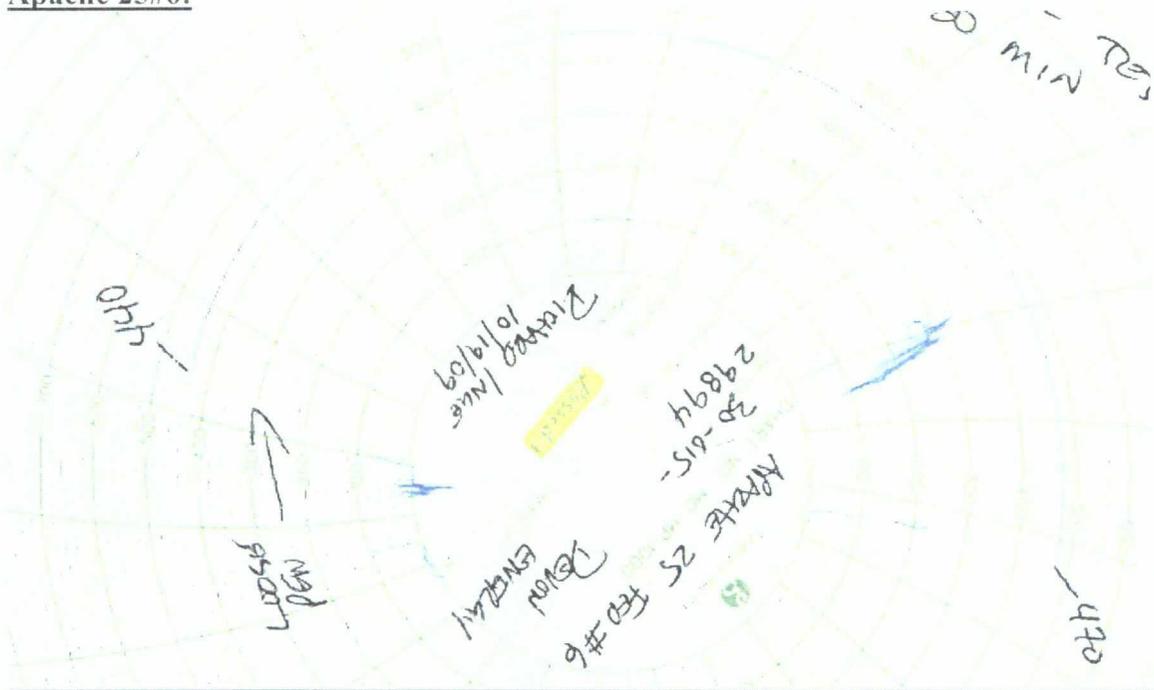
- Apache 25-8 ½ bbl to load ○
- Apache 25-1 12 bbls to load ○
- Apache 25-4 ½ bbl to load ○
- Apache 25-13 1 bbl to load ○
- Apache 25-14 .5 bbl to load ○
- Apache 24-8 ½ bbl to load ○
- Apache 25-16 .5 bbl to load ○
- Apache 25-10 .5 bbl to load ○

1,415 calc

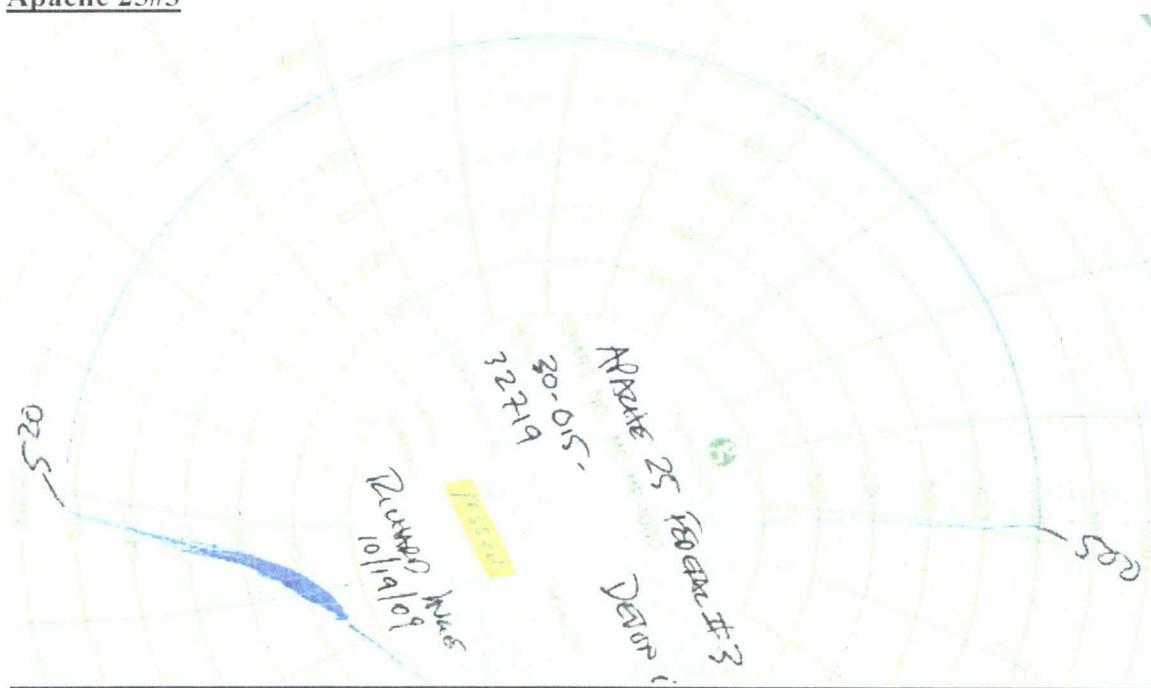
Apache 25#14: 0.5bbl to load



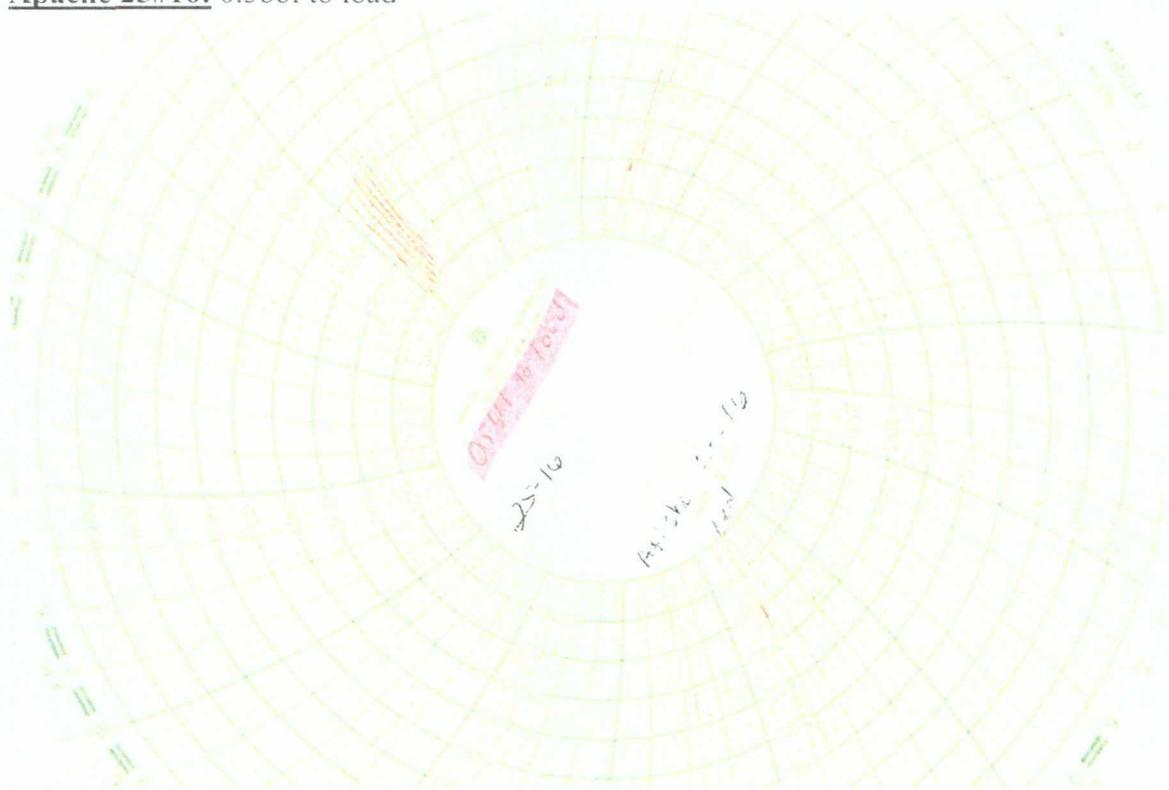
Apache 25#6:



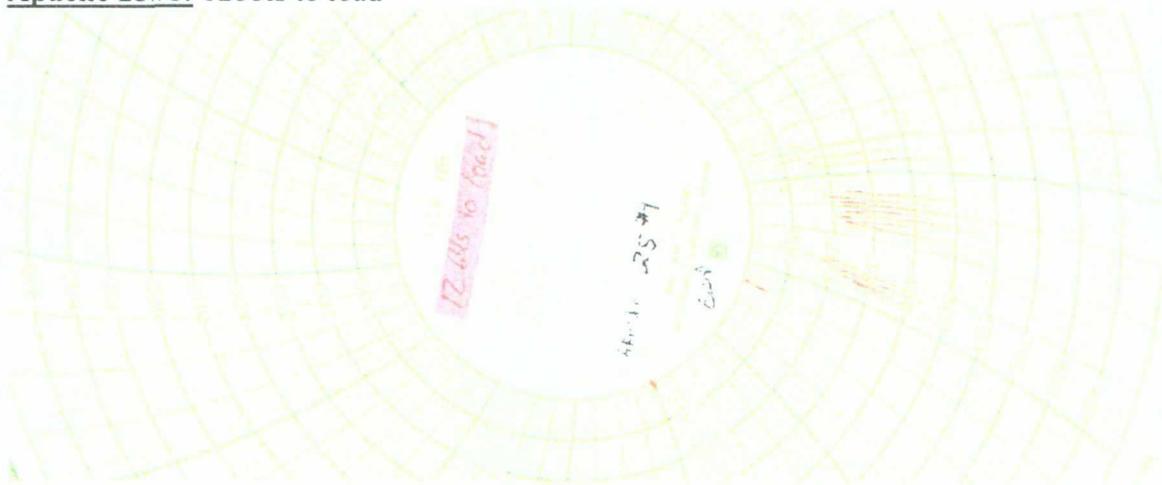
Apache 25#3



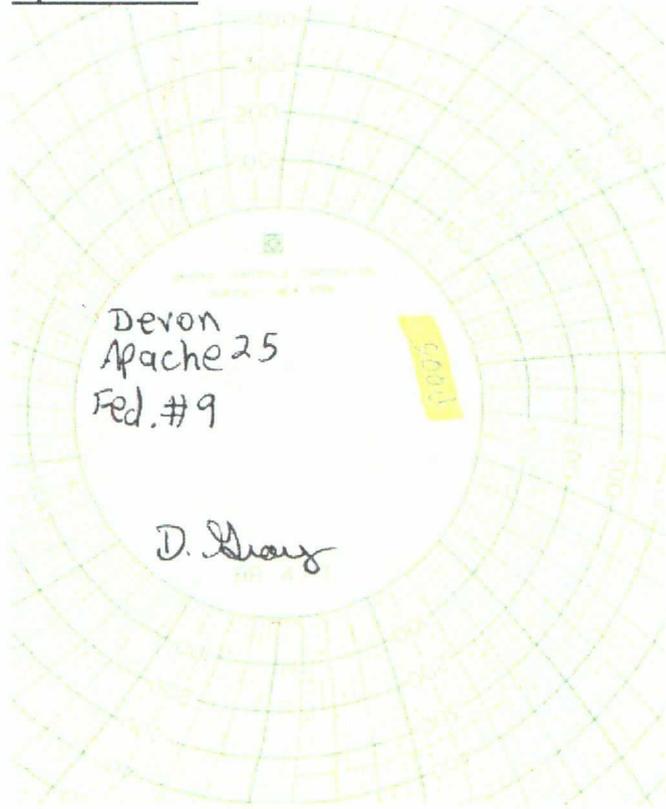
Apache 25#16: 0.5bbl to load



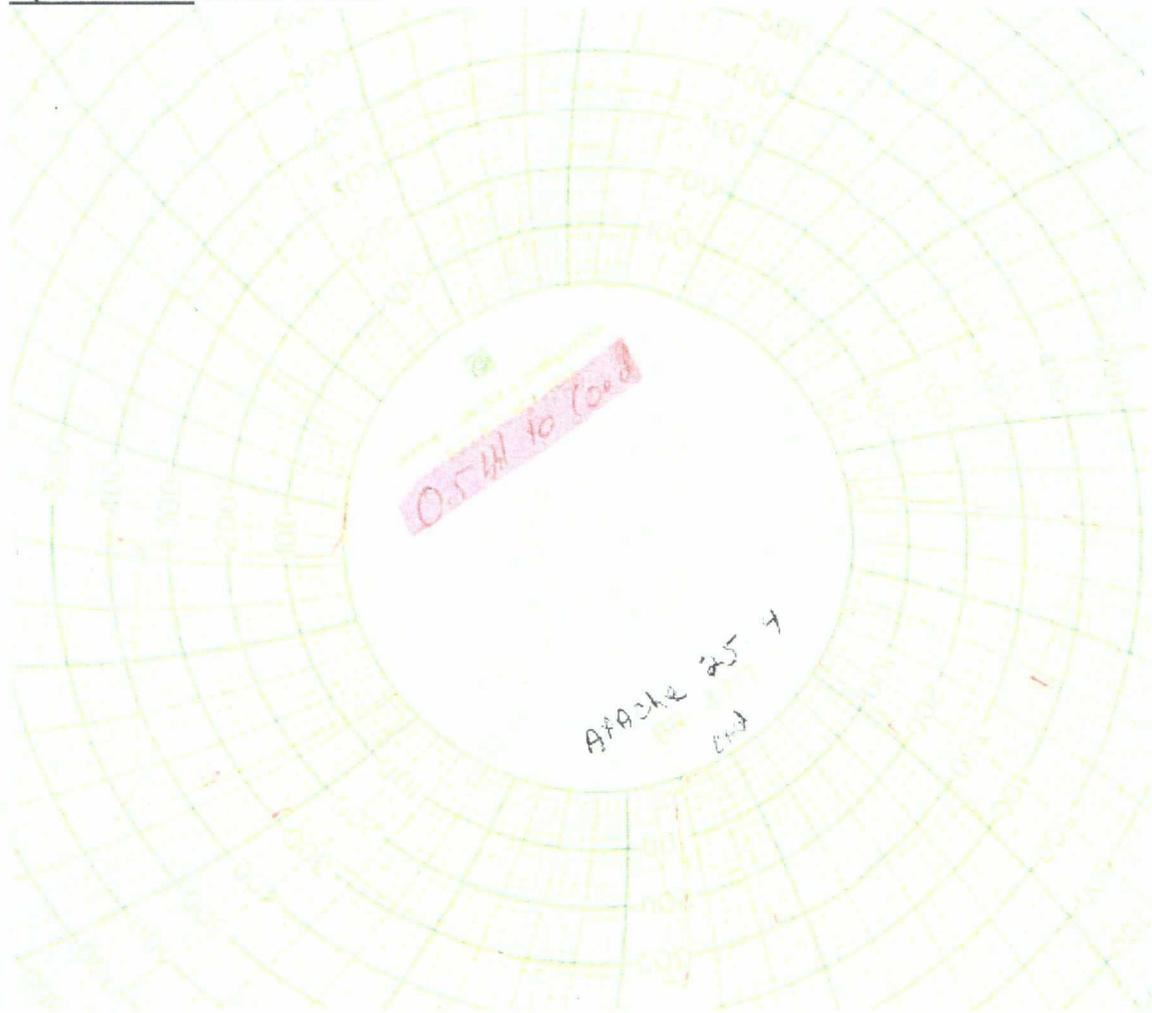
Apache 25#1: 12bbbls to load



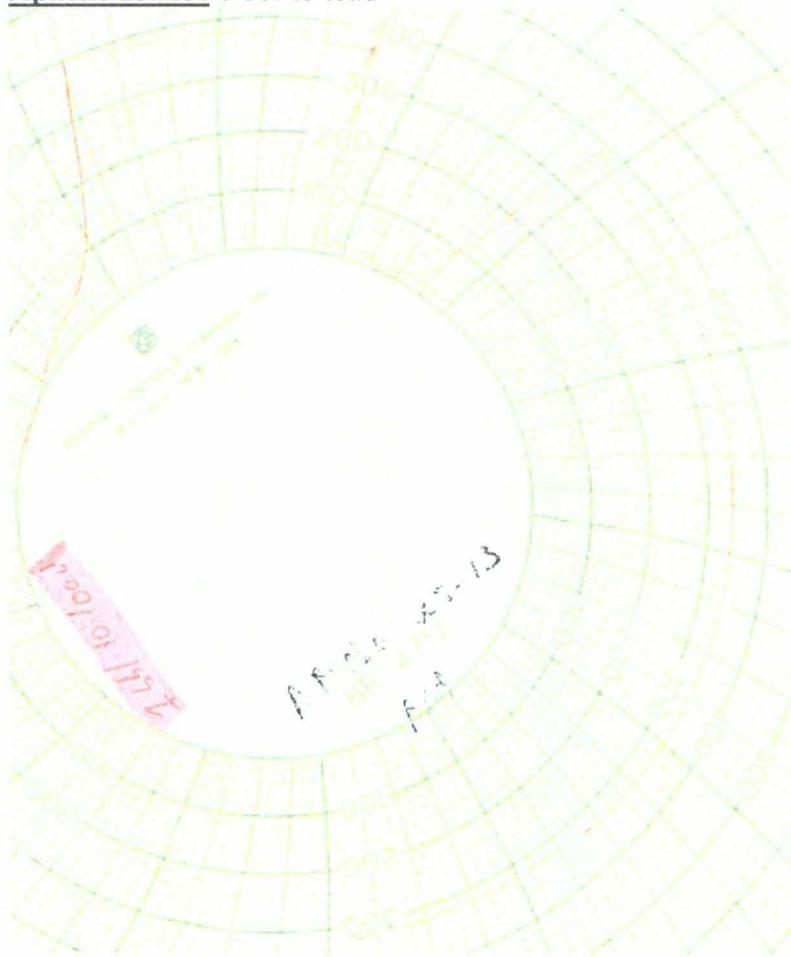
Apache 25#9:



Apache 25#4: 0.5bbl to load

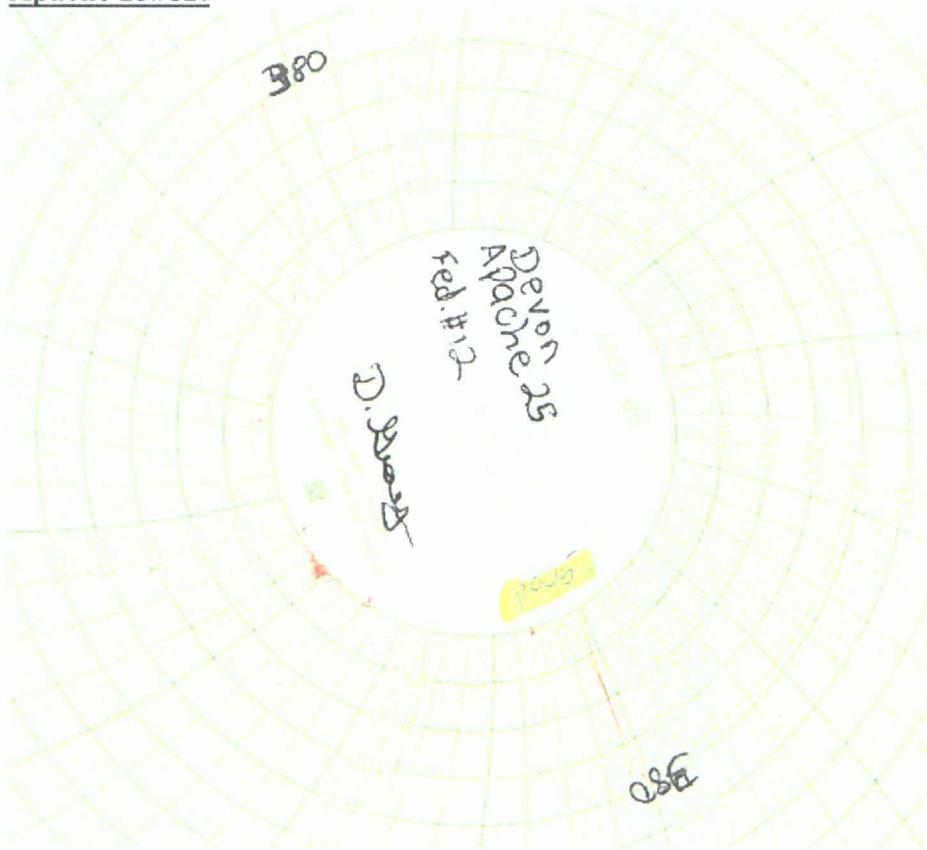


Apache 25#13: 1 bbl to load

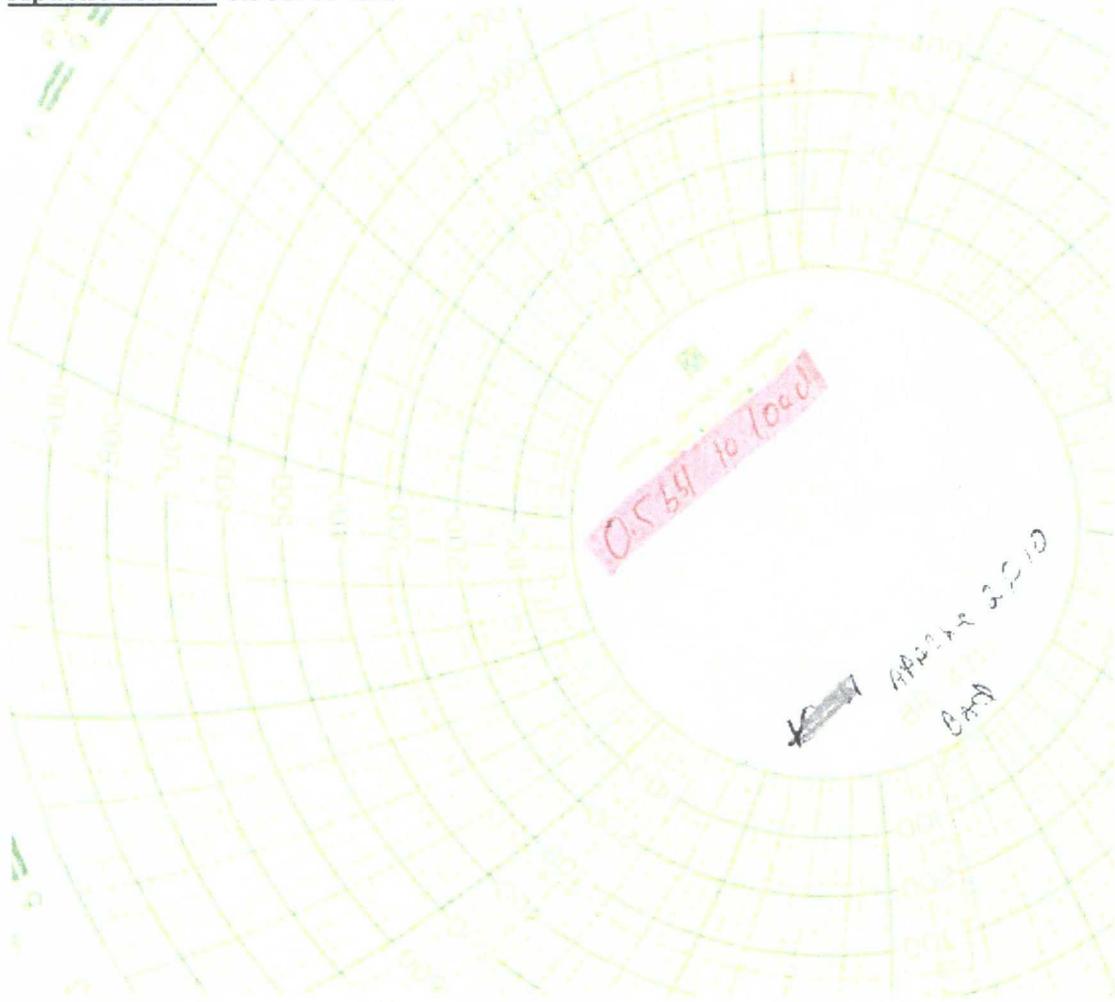


Wells that past

Apache 25#12:

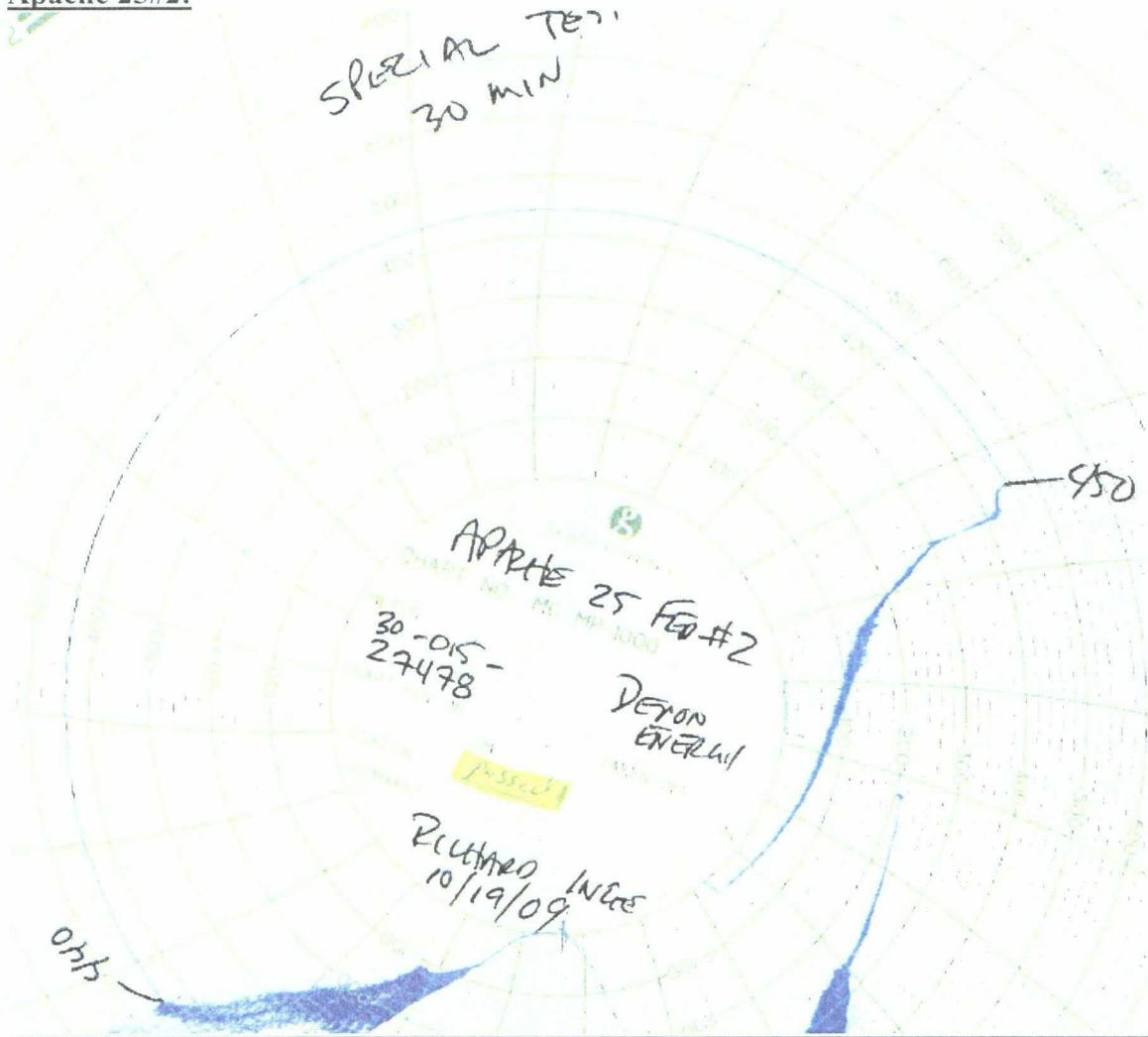


Apache 25#10: 0.5bbl to load



Apache 25#2:

SPECIAL TEST
30 MIN



APACHE 25 FEED #2

30-015-
27478

DERON
EVERETT

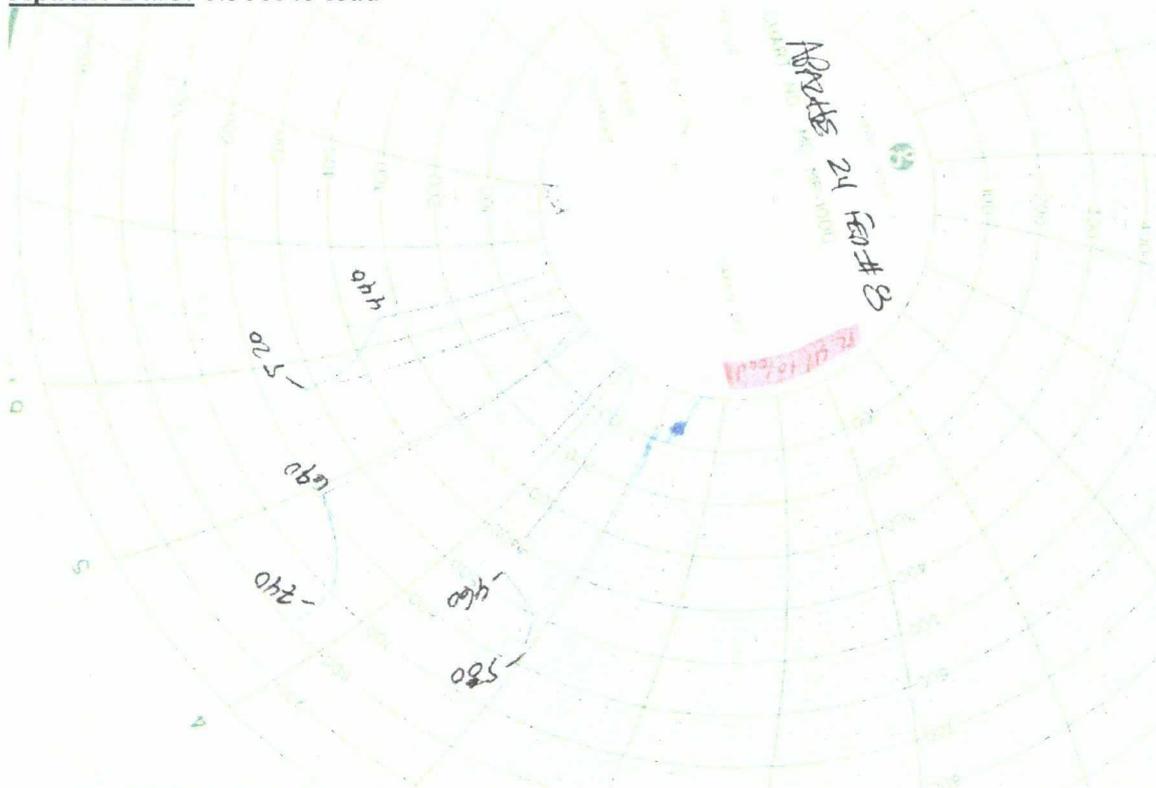
Passed

Richard INCE
10/19/09

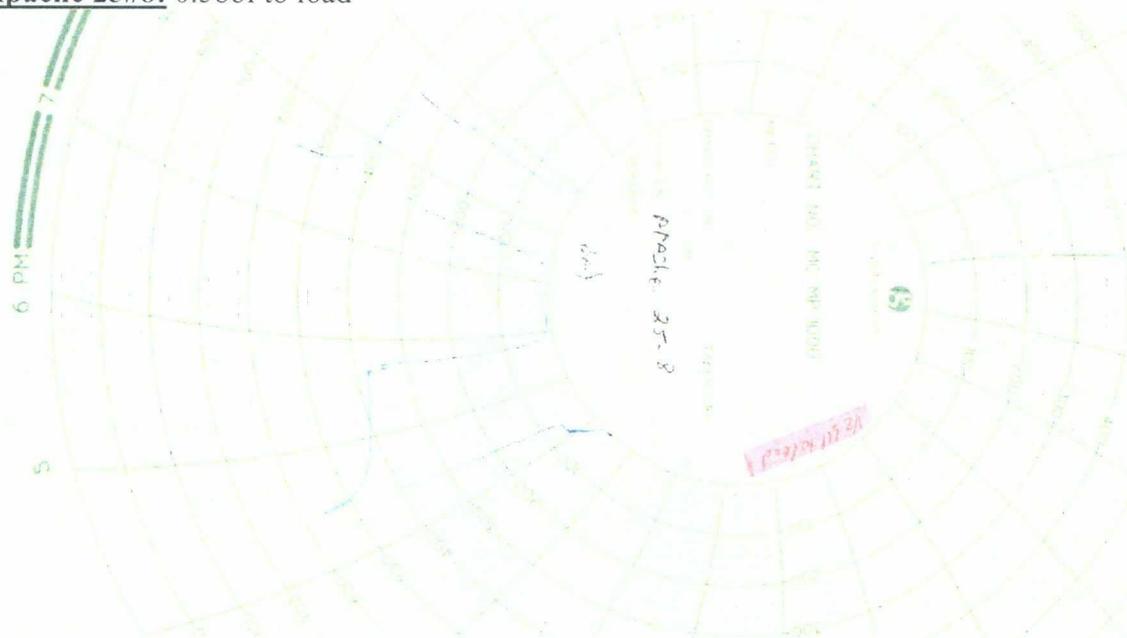
950

0.75

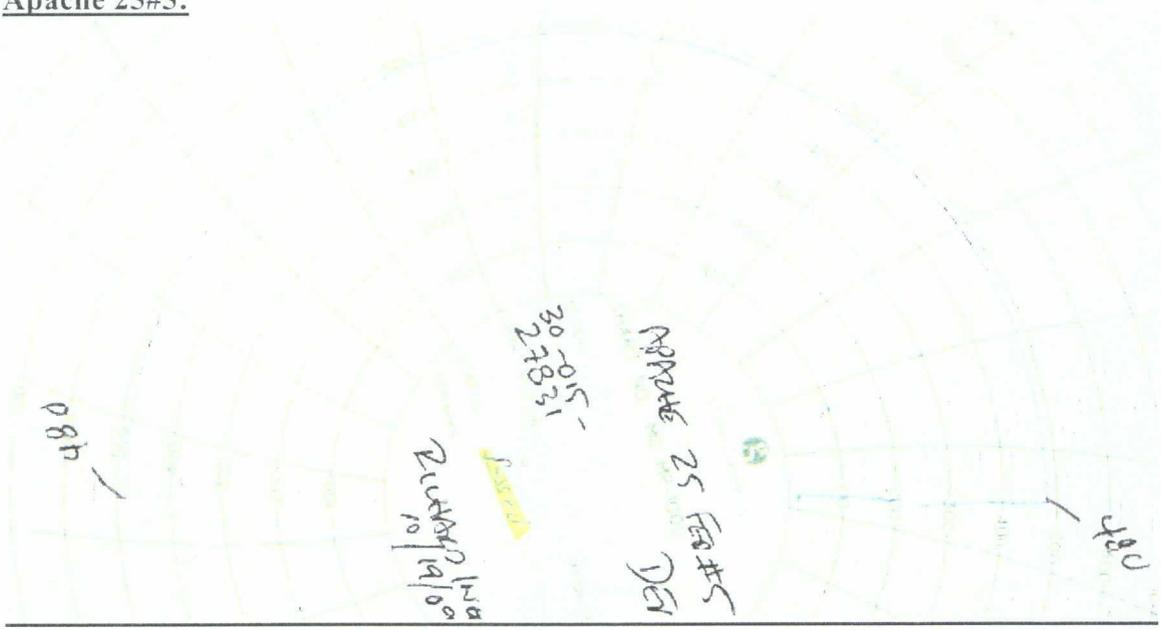
Apache 24#8: 0.5bbl to load



Apache 25#8: 0.5bbl to load



Apache 25#5:



Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, November 09, 2009 2:58 PM
To: 'Jackson, Kale'
Cc: Cromer, James; Slack, Ronnie
Subject: RE: Disposal application from Devon: Apache 25 Fed #8 30-015-33439

Kale:
No need to send.

I don't see any other issue than this one prior to approval.

If you guys can tell me:

1. How hard would it be to run a CBL prior to running injection tubing? We can approve the injection permit conditional on running another CBL and examining it.
2. The reports say cement circulated below the DV tool, but the reports had the DV tool depth wrong, so this may be a problem.
3. The 5920-5930 interval that was acidized and fraced should have treating reports that may verify the cement was OK?
4. What would calculations say about a cement top below the DV tool? What pct fillup is required to circulate?
5. Do you have the cement treating reports from Halliburton or Dowell for the production pipe?

Let me know...

From: Jackson, Kale [mailto:Kale.Jackson@div.com]
Sent: Monday, November 09, 2009 2:23 PM
To: Jones, William V., EMNRD
Cc: Cromer, James; Slack, Ronnie
Subject: RE: Disposal application from Devon: Apache 25 Fed #8 30-015-33439

Mr.. Jones,

I will copy and try to send the log out by tomorrow. The CBL is logged from 3880' - 4090' where the DV tool is set. The rest of the log starts ~6000' - 7800' The proposed SWD interval has not been logged. Is this CBL even worth sending to you?

I'm curious as to the direction we are headed with this well? If we run a new CBL and the cement looks good across the DV tool / perf interval, are we close to getting your approval? (What else, or anything do we have left to cover?) If it doesn't, what is your suggestion(s) to wrap this project up? Like you, I see the severity of making sure cement in the 25#8 is in good shape, but I'd like to get your perspective on how you are feeling about this well and moving forward.

Again, let me know ASAP if the current CBL is not what you want, so I can hold off overnighting this to you.

Thanks again,
Kale Jackson

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Monday, November 09, 2009 12:44 PM
To: Slack, Ronnie
Cc: Jackson, Kale; Cromer, James; Ezeanyim, Richard, EMNRD; Kirkes, G Ross; Warnell, Terry G, EMNRD
Subject: Disposal application from Devon: Apache 25 Fed #8 30-015-33439

section. It could be a slight micro-annulus, too, but overall it looks fine. There was 20 sx of cement circulated to the surface, which tells me this is probably the distortion you see in the CBL.

d. Would you send Bradenhead surveys and/or pressure tests on all intermediate-production casings within AOR to verify the cement top on production pipe is into the intermediate casing shoe and to verify there are no bradenhead flows. Please call our Artesia OCD office and ask if they wish to witness this work.

Here are the tests we received back from the field. I tried my best to scan these so that they were readable. If you enlarge the picture they seem to show up better. I didn't want to brighten the lines up, as to alter the data in anyway.

Most of the wells that were on the "failed" list seemed to only take a small amount of water to pressure up. If you look, the most one well took was 12bbls, with the rest of them taking barely 0.5bbl to load. These wells that were classified as "failed" were then re-pressurized and tried again. If you compare the wells that passed vs. the well's that failed with their TOC, the findings seem to be inconclusive. By pumping such a low volume and trying to pressure up that close to surface, the slight drop offs can almost be contributed to micro-annuluses. Even if you look at the worst well (Apache 25#1) the TOC is up to 1415'. I believe upon the best of my knowledge that if the production cement wasn't circulated up to the intermediate casing shoe, that we would have pumped a larger amount of volume than 12 bbls. Most likely, we would have not been able to even hold pressure that long on any of these wells.

<<Apache Pressure Tests.doc>>

e. Please send a simple stick diagram of all wells in the AOR showing DV tool depths and cement tops above and below these DV tools (best estimates) with the injection interval also marked on each well.

<<DV stick diagram.xls>>

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Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, January 06, 2010 12:14 PM
To: 'Jackson, Kale'; 'Slack, Ronnie'
Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Reeves, Jacqueta, EMNRD; Dade, Randy, EMNRD
Subject: Disposal Application from Devon: Apache 25 Fed #8 API: 30-015-33439

Kale or Ronnie:

I have this application as inactive, but pulled it out again today...because I believe this issue was left up in the air.

We have not received a written waiver from the DOE and so we must conclude they may never send one. They have been noticed on this issue.

I believe all else we are waiting on is another CBL on this well, run from below the intended disposal interval (approx 6100 feet) up and into the intermediate casing shoe (approx 3700 feet) and if it looks good, then I will argue for approval of this permit.

Any permit may be limited in future injection pressure increases.

Also, it could be that this office may refer the application to an examiner hearing – but in any case another CBL would likely be needed.

Regards,

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

received
NEW CBL
(29/march/2010)
all OK

Injection Permit Checklist (8/14/09)

Case _____ R- _____ SWD 1298 WFX _____ PMX _____ IPI _____ Permit Date 3/29/10 UIC QTR ITEM ALSO

Wells 1 Well Name: ANACRE 25 FEL #8

API Num: (30-) 015-33439 Spud Date: 7/3/04 New/Old: N (UIC primacy March 7, 1982)

Footages 245 FNL/190 FEL Unit # Sec 25 Tsp 225 Rge 30E County Eddy

Operator: DEVON Energy Production Co., LP. Contact Ronnie SLACK

OGRID: 23478 RULE 5.9 Compliance (Wells) 5 min (Finan Assur) OK OK

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

Current Status of Well: _____

Planned Work to Well: PBC@6030' Planned Tubing Size/Depth: 27/8 @ 5650'

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or et	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	<u>17 1/2 13 3/8</u>	<u>631</u>	<u>400</u>	<u>CIRC</u>
Existing <input checked="" type="checkbox"/> Intermediate	<u>11 8 5/8</u>	<u>3849</u>	<u>1020</u>	<u>CIRC</u>
Existing <input checked="" type="checkbox"/> Long String	<u>7 7/8 5 1/2</u>	<u>7864</u>	<u>1710</u>	<u>CIRC</u>

DV Tool 452T Liner _____ Open Hole _____ Total Depth 7868

Well File Reviewed

Diagrams: Before Conversion _____ After Conversion Elogs in Imaging File: Sand - CBL of top

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	<u>3866</u>	<u>DEVELOP.</u>	
Injection..... Interval TOP:	<u>5675</u>	<u>Cherty Co. ss</u>	<u>NO</u>
Injection..... Interval BOTTOM:	<u>5930</u>	<u>" "</u>	<u>NO</u>
Below (Name and Top)	<u>7813</u>	<u>BS.</u>	

QUAHADA RIDGE SE DEL

1136 PSI Max. WHIP
Open Hole (Y/N) _____
Deviated Hole? Yes ?

Sensitive Areas: Capitan Reef _____ Cliff House _____ Salt Depths 540 - 3625'

..... Potash Area (R-111-P) Yes Potash Lessee _____ Noticed? NO

Fresh Water: Depths: 0 - 298' Wells none Analysis? _____ Affirmative Statement

Disposal Fluid Sources: Del Analysis? _____

Disposal Interval Production Potential/Testing/Analysis Analysis: _____

Notice: Newspaper(Y/N) Surface Owner PLM Mineral Owner(s) _____

RULE 26.7(A) Affected Parties: Devon

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

Active Wells 14 Num Repairs 0 Producing in Injection Interval in AOR NO

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

Questions to be Answered:

5920-5930 = depleted? - Sand Plot w/ depths
add DV TOOL? CUT TOPS below/above to table
Sand Deviator PLAT

Required Work on This Well: _____ Request Sent _____ Reply: _____

AOR Repairs Needed: _____ Request Sent _____ Reply: _____

on edge of WIPPSIE Request Sent _____ Reply: _____

SAL:
BHL:
1905 FNL
1980 FEL

3988

5675
0356

TRANDD
TO
WIPPSIE
SITE

(DOE)

MITS every year

Devon w/ depths