

Y16/2015 DATE IN	SUSPENSE	PDG ENGINEER	Y16/2015 LOGGED IN	SWD TYPE	PMAM/501651904 APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Stephanie A. Porter
 Print or Type Name

Signature

Production Technician
 Title

Date

Stephanie.Porter@dvn.com
 E-mail Address

- SWD
 - Devon Energy
 Production Company, LP
 6137
 - well
 - Rattlesnake 16 SWD
 30-025-42355
 Pool
 - SWD, Devonian
 Montoya
 97803

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: _____ Devon Energy Production Company, LP _____
ADDRESS: _____ 333 West Sheridan Avenue, Oklahoma City, Oklahoma 73102-5010 _____
CONTACT PARTY: _____ Stephanie A. Porter _____ PHONE: _____ 405-552-7802
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ ☒ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: _____ Stephanie A. Porter _____ TITLE: _____ Operations Technician _____
SIGNATURE: _____ DATE: _____ 11/15/2015 _____
E-MAIL ADDRESS: _____ Stephanie.Porter@dvn.com _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

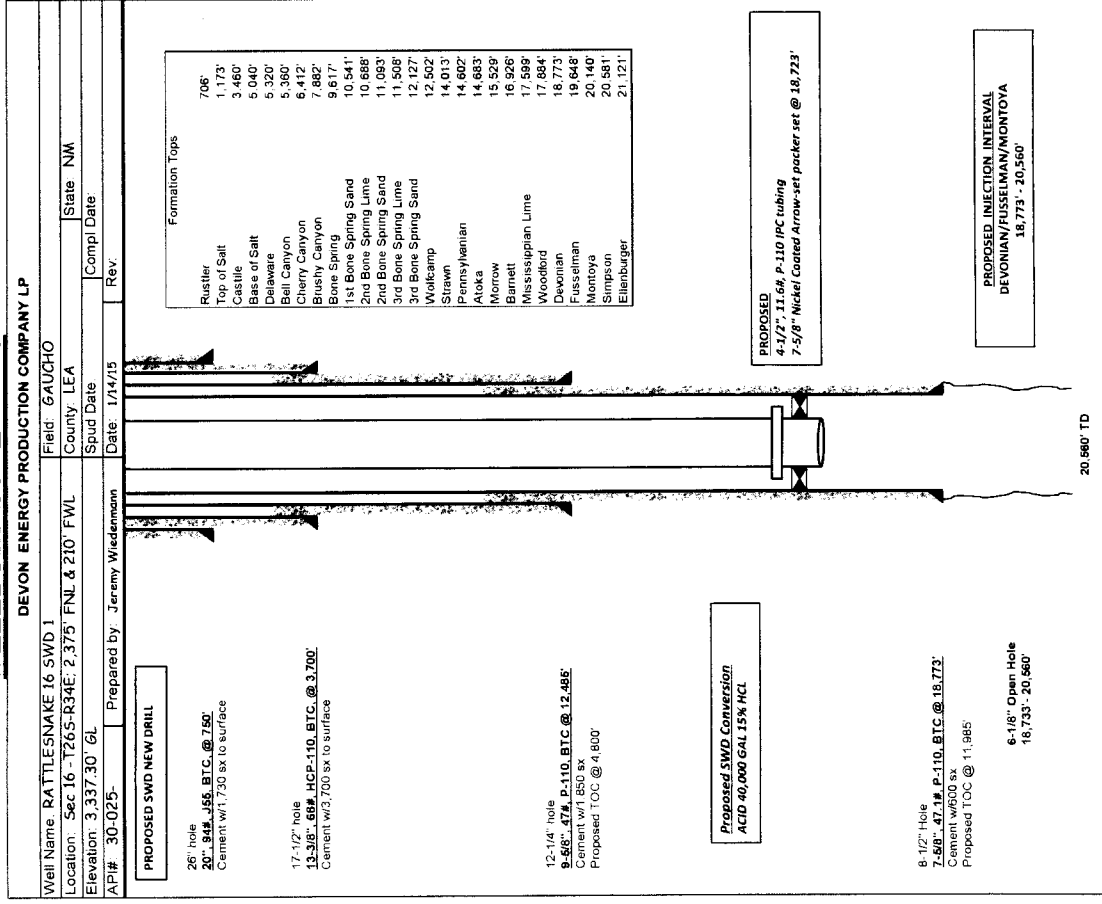
INJECTION WELL DATA SHEET

OPERATOR: Devon Energy Production Company, LP

WELL NAME & NUMBER: RATTLESNAKE 16 SWD #1

WELL LOCATION: 2375' FNL & 210' FWL E 16 T26S R34E SECTION TOWNSHIP RANGE
FOOTAGE LOCATION UNIT LETTER

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26" Casing Size: 20" 94# @ 750'
Cemented with: 1730 sx. or ft³

Top of Cement: Surface Method Determined: Circ. cement
1st Intermediate Casing

Hole Size: 17-1/2" Casing Size: 13-3/8", 68#, @ 5300'
Cemented with: 3700 sx. or ft³

Top of Cement: Surface Method Determined: Circ. cement
2nd Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8", 47#, @ 12485'
Cemented with: 1850 sx. or ft³

Top of Cement: 4800' Method Determined: Calc TOC
Production Casing

Hole Size: 8-1/2" Casing Size: 7-5/8", 47.1#, @ 18773'
Cemented with: 440 sx. or ft³

Top of Cement: TOC @ 11485' Method Determined: Calc TOC
Total Depth: 20560' Injection Interval (Open Hole)

18773' to 20560'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 4-1/2" Lining Material: IPCType of Packer: 7-5/8" Nickel Coated Arrowset PackerPacker Setting Depth: +/- 18723'

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

Additional Data

1. Is this a new well drilled for injection? Yes

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Devonian/Silurian/Ordovician

3. Name of Field or Pool (if applicable): _____ (to be assigned)

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. n/a

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

Fresh Water 180; Rustler 706 (Barren); Top of Salt 1173 (Barren); Castile 3460 (Barren); Base of Salt 5040 (Barren); Delaware 5320 (Oil); Bell Canyon 5360 (Oil); Cherry Canyon 6412 (Oil); Brushy Canyon 7882 (Oil); Bone Spring 9617 (Oil/Gas); 1st Bone Spring Sd 10541 (Oil/Gas); 2nd Bone Spring Lm 10688 (Oil/Gas); 2nd Bone Spring Sd 11093 (Oil/Gas); 3rd Bone Spring Lm 11508 (Oil/Gas); 3rd Bone Spring Sd 12127 (Oil/Gas); Wolfcamp 12502 (Oil/Gas); Pennsylvania 14602 (Oil/Gas); Strawn 14013 (Oil/Gas); Atoka 14683 (Gas); Morrow 15529 (Gas); Barnett 16926 (Barren); Mississippian Lime 17599 (Barren); Woodford 17884 (Barren); Devonian 18773 (Barren); Fusselman 19648 (Barren); Montoya 20140 (Barren); Simpson 20581 (Barren); Ellenburger 21121 (Barren)

Proposed Injection Well: Rattlesnake SWD 1

API: 30-025-

APPLICATION FOR INJECTION

Form C-108 Section III

III. Well Data--On Injection Well

A. Injection Well Information

- (1) Lease Rattlesnake 16 SWD
Well No #1
Location 2375' FNL & 210' FWL
Sec,Twn,Rnge Sec 16-T26S-R34E
Cnty, State Lea County, NM
- (2) Casing 20", 94#, J55, BTC, @ 750'
Cmt'd w/1750 sx, circ cmt to surf

13-3/8", 68#, HCP-110, BTC, @ 5300'
Cmt'd w/3700 sx, circ cmt to surf

9-5/8", 47#, HCP-110, BTC @ 12,485'
Cmt'd w/1850 sx, proposed toc @ 4800'

7-5/8", 47.1#, P110, BTC @ 18773'
Cmt w/440 sx, prop toc @ 11485'
- (3) Injection Tubing 4 -1/2" 11.6# L-80 IPC injection tubing
- (4) Packer 7-5/8" Nickel Coated Arrowset Packer @ +/- 18723'

B. Other Well Information

- (1) Injection Formation: Devonian/Silurian/Ordovician
Field Name: (to be assigned)
- (2) Injection Interval: 18773 - 20560'

(3) Original Purpose of Wellbore:

Drill and convert to SWD

(4) Other perforated intervals:

n/a

(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.

Fresh Water 180; Rustler 706 (Barren); Top of Salt 1173 (Barren); Castile 3460 (Barren); Base of Salt 5040 (Barren); Delaware 5320 (Oil); Bell Canyon 5360 (Oil); Cherry Canyon 6412 (Oil); Brushy Canyon 7882 (Oil); Bone Spring 9617 (Oil/Gas); 1st Bone Spring Sd 10541 (Oil/Gas); 2nd Bone Spring Lm 10688 (Oil/Gas); 2nd Bone Spring Sd 11093 (Oil/Gas); 3rd Bone Spring Lm 11508 (Oil/Gas); 3rd Bone Spring Sd 12127 (Oil/Gas); Wolfcamp 12502 (Oil/Gas); Pennsylvanian 14602 (Oil/Gas); Strawn 14013 (Oil/Gas); Atoka 14683 (Gas); Morrow 15529 (Gas); Barnett 16926 (Barren); Mississippian Lime 17599 (Barren); Woodford 17884 (Barren); Devonian 18773 (Barren); Fusselman 19648 (Barren); Montoya 20140 (Barren); Simpson 20581 (Barren); Ellenburger 21121 (Barren)

Proposed Injection Well: Rattlesnake 16 SWD #1

API: 30-025-

APPLICATION FOR INJECTION

Form C-108 Section VII to XIII

VII Attach data on the proposed operation, including:

- (1) Proposed average injection rate: 10000 BWPD
Proposed maximum injection rate: 20000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 1877 psi
Proposed max injection pressure: 3754 psi
- (4) The injection fluid will be produced water from area wells producing from the Bone Spring and/or Delaware formation that will be injected into the Devonian/Silurian formation.
- (5) A representative water analysis is submitted for the Delaware & Bone Spring formation(s).

VIII Geologic Injection Zone Data

The injection zone is the Devonian/Silurian/Ordovician formation from 18773' to 20560'. The gross injection interval is 1787' thick. The average depth to fresh water is 180' in this area.

IX Proposed Stimulation

Based on injectivity results this interval could be acid stimulated.

X Log Data

Logs will be submitted to the OCD.

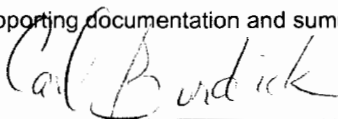
XI Fresh Water Analysis

No water wells were found in this area.

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.

See supporting documentation and summary next 4 pages.



Carl Burdick, Geologist
Direct #: (405)-228-7711
Cell #: (405)-626-2369

1-13-15
Date:

XIII Proof of Notice

Proof of notice to surface owner, and public legal notification are attached.

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RATTLESNAKE 16 SWD 1		Field: GAUCHO	
Location: Sec 16 -T26S-R34E; 2,375' FNL & 210' FWL		County: LEA	State: NM
Elevation: 3,337.30' GL		Spud Date:	Compl Date:
API#: 30-025-	Prepared by: Jeremy Wiedenmann	Date: 1/14/15	Rev:

PROPOSED SWD NEW DRILL

26" hole
20", 94#, J55, BTC, @ 750'
 Cement w/1,730 sx to surface

17-1/2" hole
13-3/8", 68#, HCP-110, BTC, @ 3,700'
 Cement w/3,700 sx to surface

12-1/4" hole
9-5/8", 47#, P-110, BTC @ 12,485'
 Cement w/1,850 sx
 Proposed TOC @ 4,800'

Proposed SWD Conversion
ACID 40,000 GAL 15% HCL

8-1/2" Hole
7-5/8", 47.1#, P-110, BTC @ 18,773'
 Cement w/600 sx
 Proposed TOC @ 11,985'

6-1/8" Open Hole
18,733'- 20,560'

Formation Tops

Rustler	706'
Top of Salt	1,173'
Castile	3,460'
Base of Salt	5,040'
Delaware	5,320'
Bell Canyon	5,360'
Cherry Canyon	6,412'
Brushy Canyon	7,882'
Bone Spring	9,617'
1st Bone Spring Sand	10,541'
2nd Bone Spring Lime	10,688'
2nd Bone Spring Sand	11,093'
3rd Bone Spring Lime	11,508'
3rd Bone Spring Sand	12,127'
Wolfcamp	12,502'
Strawn	14,013'
Pennsylvanian	14,602'
Atoka	14,683'
Morrow	15,529'
Barnett	16,926'
Mississippian Lime	17,599'
Woodford	17,884'
Devonian	18,773'
Fusselman	19,648'
Montoya	20,140'
Simpson	20,581'
Ellenburger	21,121'

PROPOSED

4-1/2", 11.6#, P-110 IPC tubing
7-5/8" Nickel Coated Arrow-set packer set @ 18,723'

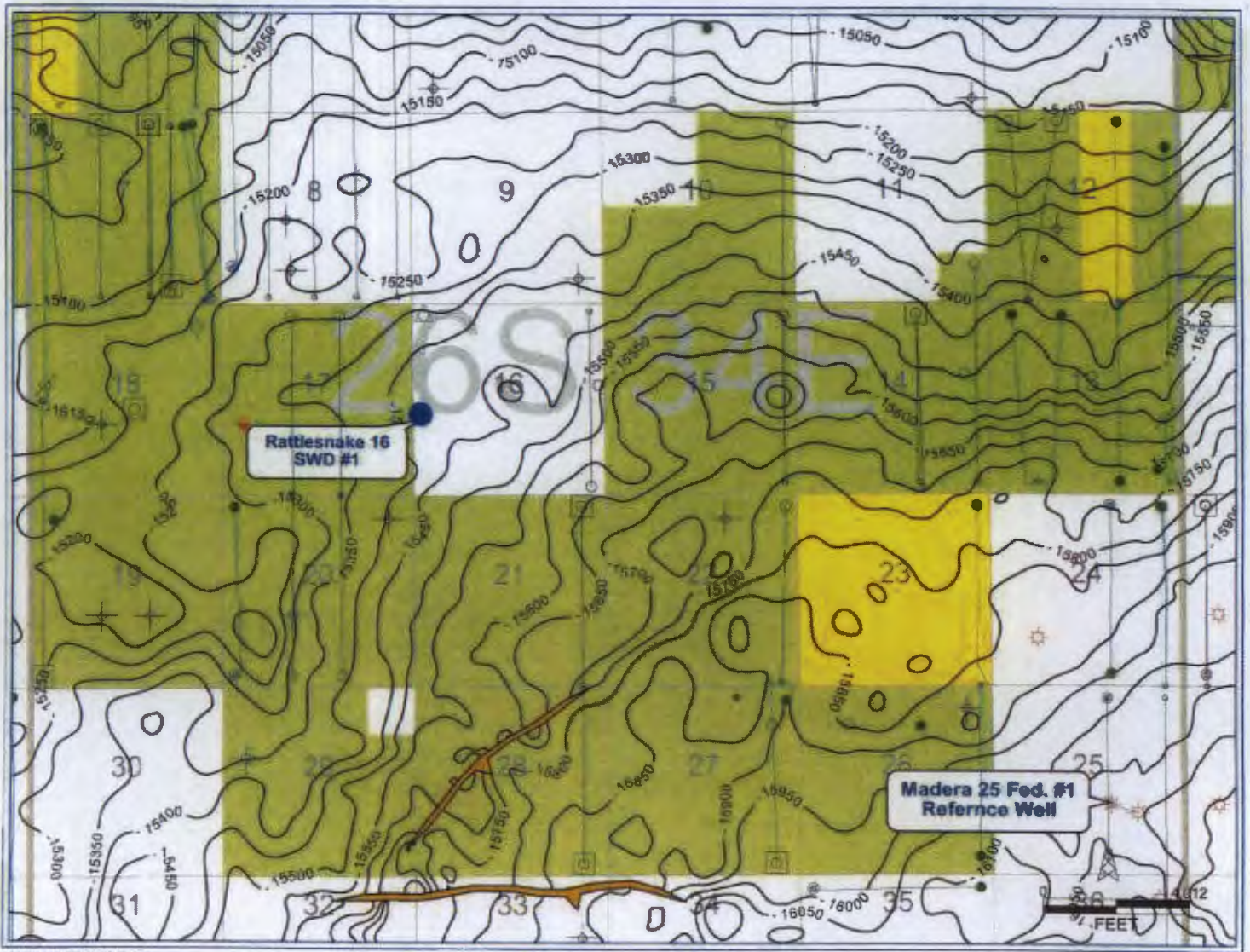
PROPOSED INJECTION INTERVAL
DEVONIAN/FUSSELMAN/MONTOYA
18,773' - 20,560'

20,560' TD

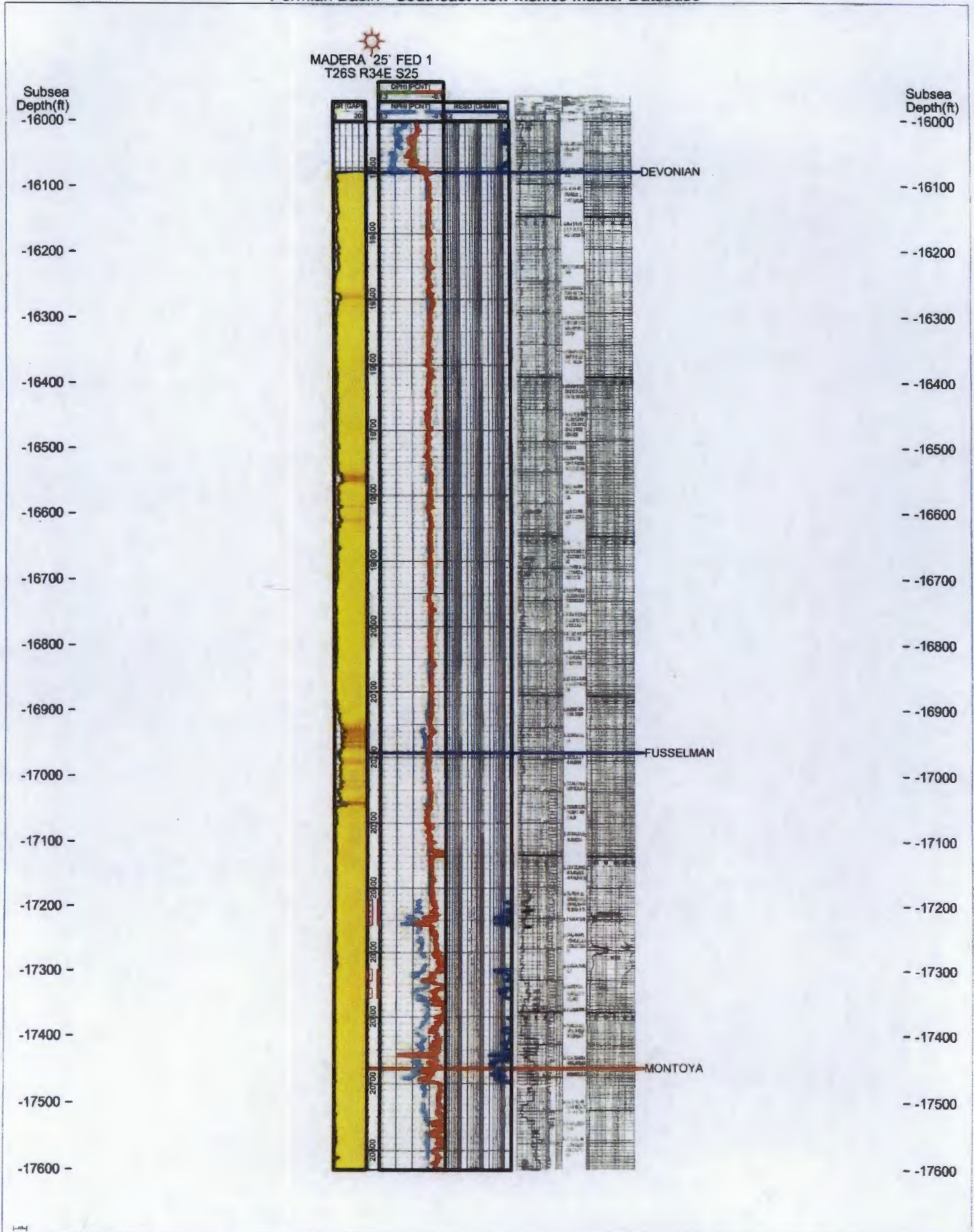
The proposed Rattlesnake 16 SWD #1 is a Siluro-Devonian injection well that will target injecting produced water into the Devonian, Fusselman, and Montoya Formations. Attached in Figure 1 is a top of Devonian structure map (in feet Mean Sea Level) that shows the location of the Rattlesnake SWD #1 in Section 16 of 26S-34E, in the central part of the Rattlesnake area. There is a mapped fault at a distance of 8,775' to the southeast of the proposed Rattlesnake 16 SWD #1 which penetrates the Devonian through to basement, as well as a second fault which 13,225' to the south and also penetrates the Devonian through to basement. However, these two faults are believed to be too far away from the Rattlesnake 16 SWD #1 to be in communication with it.

Attached in Figures 2a and 2b are the logs for the Madera 25 Fed. #1 reference well (~4 miles to the southeast), which was split in two over the proposed injection zone for ease of viewing. To the left of the depth track is gamma ray, with porosity and resistivity to the right, respectively. Figure 2a shows the top of the Devonian to the top of the Montoya Formations, and Figure 2b shows the top of the Montoya well into the Ellenburger Formation, to a log depth of 22,480' in the Madera 25 Fed. #1. It should be noted that the proposed Rattlesnake 16 SWD #1 will only penetrate to the base of the Montoya Formation and will not enter the Simpson Formation, which is approximately 430' thick (hence the Rattlesnake 16 SWD #1 will TD approximately 450' above the top of the Ellenburger).

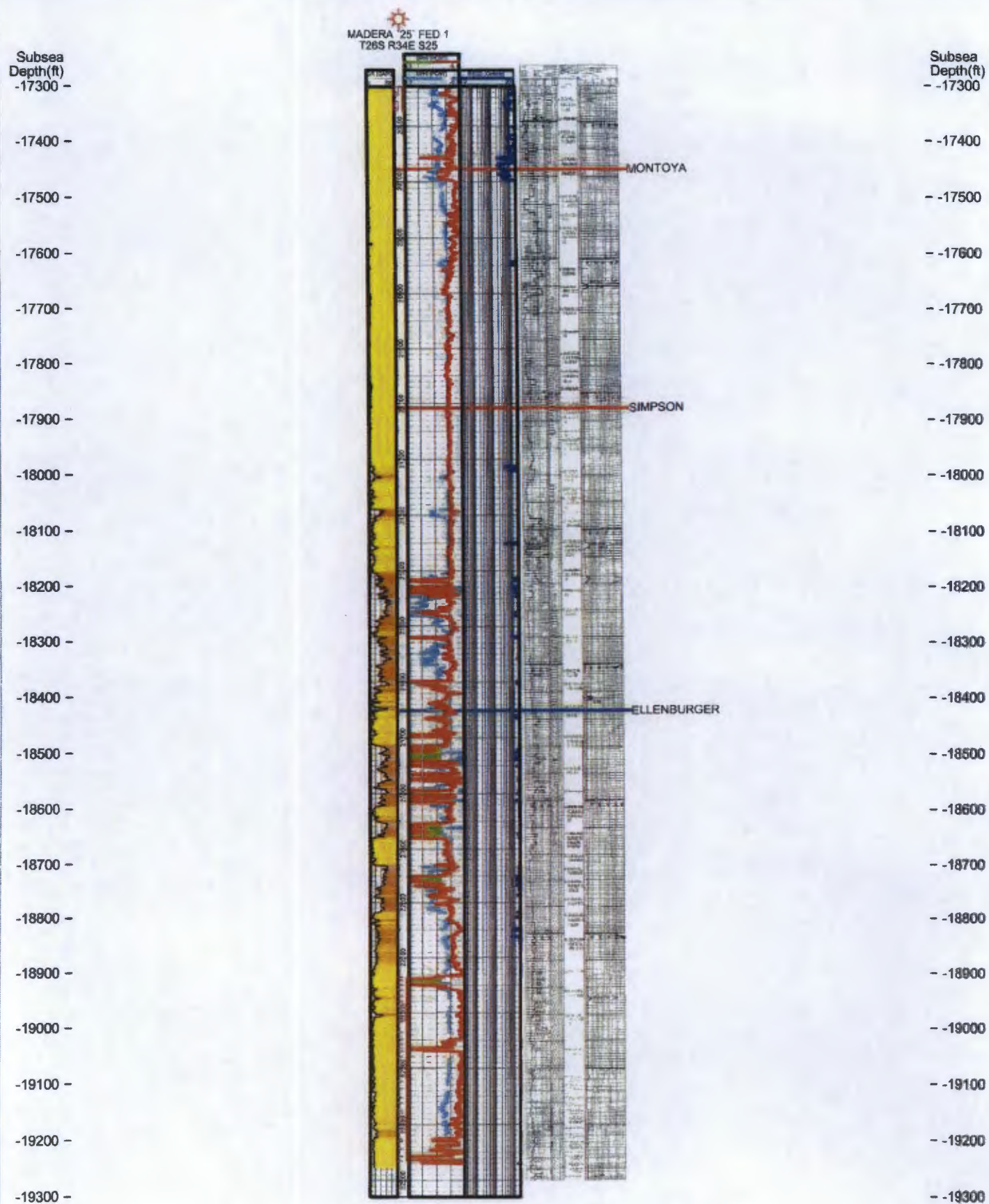
The lithology of the proposed injection interval for the Rattlesnake 16 SWD #1 is predominately limestone and dolomite, with fractures providing the main porosity and permeability that will take injection water. The proposed injection interval is ~1,787 feet (18,773'-20,560') in the Rattlesnake #1 SWD, which is through the Montoya Formation but not into the Simpson or Ellenburger. These depths may be modified based on drilling results or log data that indicate high porosity zones in limestone or dolomite due to fractures.



Permian Basin - Southeast New Mexico Master Database



Permian Basin - Southeast New Mexico Master Database



GUNNER 8 FED 5H

26S 34E

GUNNER 16 STATE SWD 1



RATTLESNAKE 16 SWD 1

1/2 MILE



Rattlesnake 16 SWD 1

1/2 Mile Radius Map



WELL SYMBOLS
● OIL PRODUCING WELL
△ SERVICE WELL

December 12, 2014 2:46 PM

26S 34E



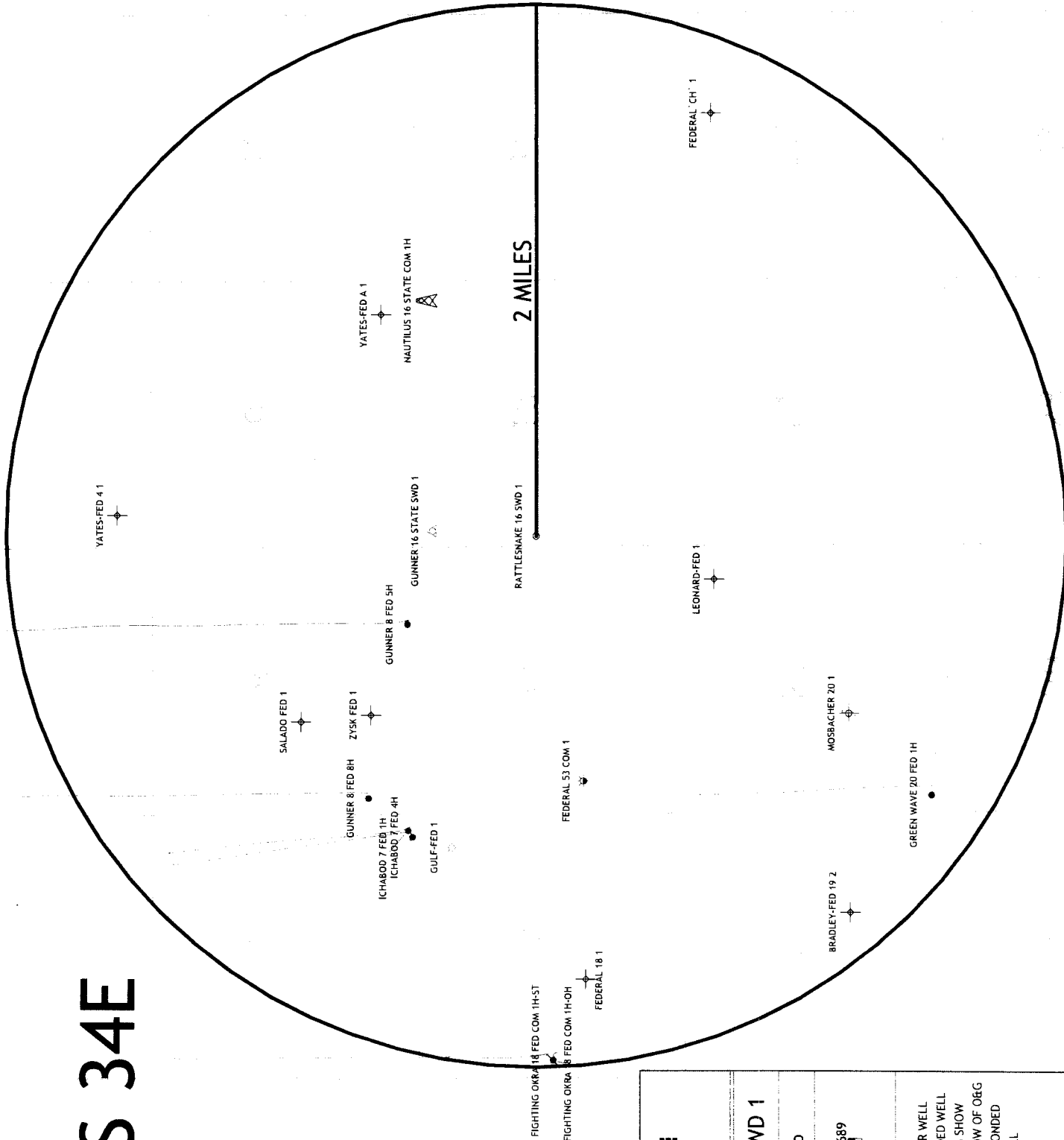
Rattlesnake 16 SWD 1

2 Mile Radius Map



- WELL SYMBOLS**
- ABANDONED WATER WELL
 - DRY AND ABANDONED WELL
 - DRY HOLE WITH GAS SHOW
 - DRY HOLE WITH SHOW OF O&G
 - JUNKED AND ABANDONED
 - OIL PRODUCING WELL
 - SERVICE WELL
 - AT TD

December 12, 2014 2:39 PM

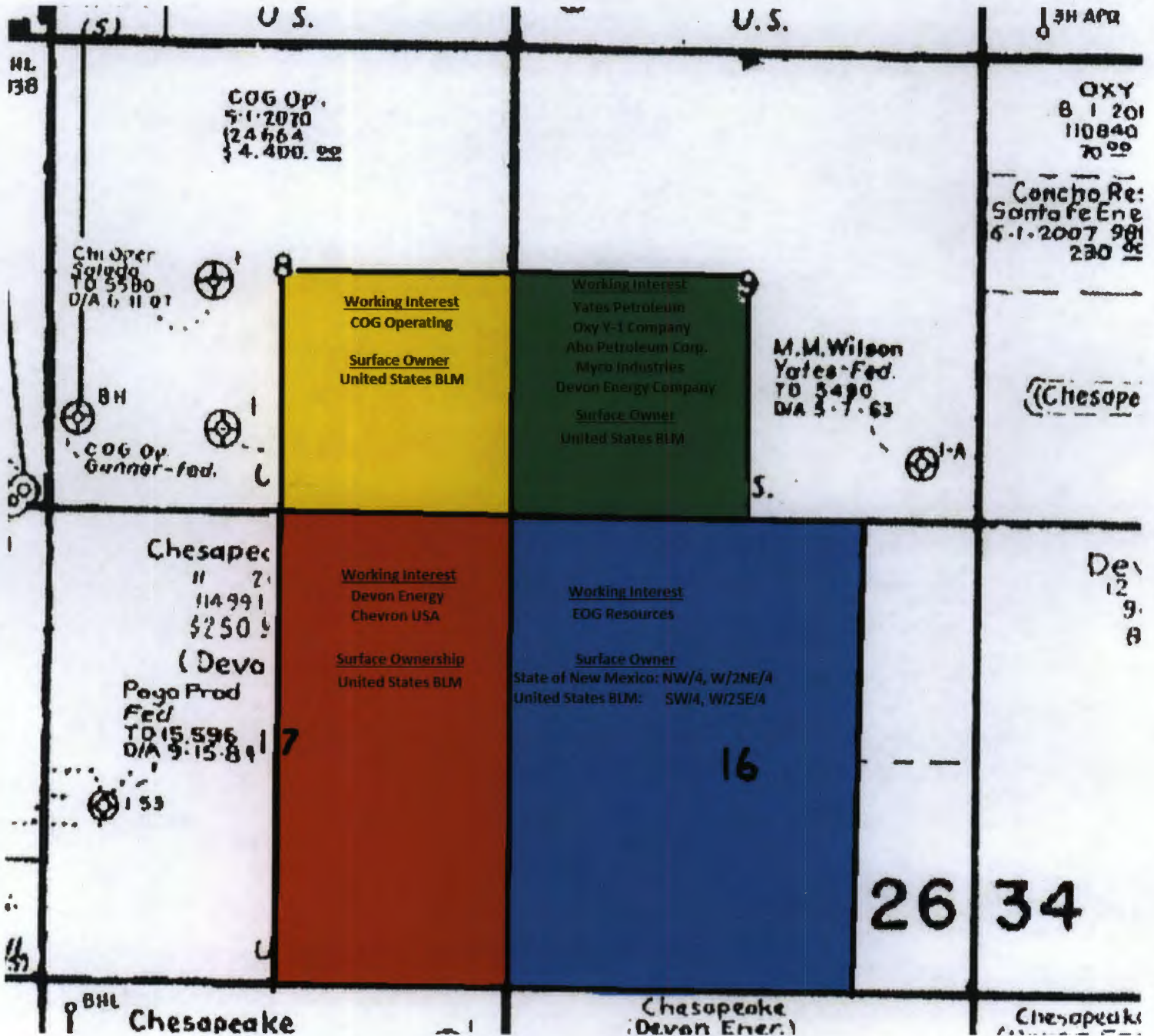


C108 ITEM VI--Well Tabulation in 1/2 Mile Review Area																	
Devon Energy Production Company, LP																	
Proposed Inj Well: RATTLESNAKE 16 SWD 1																	
Proposed Formation: Devonian/Silurian/Ordovician																	
Proposed Interval: 18,773' - 20,560'																	
Operator	Well Name	API NO	County	Surf Location	Sec	Twn	Rnge	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval-Ft	Casing Program	Cement / TOC
Devon Energy Production Company, LP	Rattlesnake 16 SWD 1 (Proposed)	APD Submitted to NMOCD	Lea	2375' FNL & 210' FWL	16	26S	34E	Inj	To Be Drilled	To Be Drilled	To Be Drilled	21000	21000	Devonian	18733 - 21000	20" 94# @ 750' 13-3/8" 48# @ 320' 9-5/8" 40# @ 2950' 7" 29# @ 12535'	1730 sx / surface 3700 sx / surface 1850 sx /4800 prop TOC 440 sx /11485 prop TOC
	COG OPERATING	Gunner 16 State SWD 1	Lea	330' FNL 330' FWL	16	26S	34E	Inj	Active	6/26/2013	8/7/2013	7015	6929	Delaware	6000 - 6900	13-3/8" 54.5# @ 855' 9-5/8" 40# @ 5262' 7" 26# @ 7015'	700 sx /surface 1800 sx / surface 625 sx /980 cbl



P.O. Box 2691 88202-2691
1510 W. Second Street
Roswell, NM 88201
Telephone (575) 625-8807
Fax (575) 625-8827

Prospect Name: Rattlesnake SWD
Section 8, 9, 16, 17 Township 26 South Range 34 East Survey NMPM
County Lea State New Mexico



Date: 1/6/2015
Remarks: Section 8: SE4
Section 9: SW4
Section 16: W2, W2E2
Section 17: E2



P.O. BOX 2691
1510 West Second Street
Roswell, NM 88201
Telephone (575)625-8807 • Fax (575)625-8827

**PROSPECT: Rattlesnake 16 SWD
TRACT: 1**

**Township 26 South, Range 34 East, NMPM
Section 8: SE/4
Section 9: SW/4
Section 16: W/2, W/2E/2
Section 17: E2
Lea County, New Mexico**

**Record Date: 12/12/2014 (County)
01/06/2015 (Federal)**

We have determined the following individuals and/or companies are probable working interest owners and/or operators, based solely from a cursory check:

**Section 8: SE/4
Lease NM 124664, dated 6/1/2010**

(1.)

COG Operating, LLC
600 W. Illinois Ave.
Midland, TX 79701

The following is the surface owner:

United States of America
Bureau of Land Management
P.O. Box 27115
Santa Fe, NM 87502-0115

**Section 9: SW/4
Lease NM-66927, dated 11/01/1986**

(1.)

Yates Petroleum Corporation
105 S. Fourth St.
Artesia, NM 88210

(2.)

Oxy Y-1 Company
P.O. Box 27570
Houston, TX 77227

(3.)

Abo Petroleum Corporation
105 S. Fourth St.
Artesia, NM 88210

Section 9 continued:

(4.)

Myco Industries, Inc.
105 S. Fourth St.
Artesia, NM 88210

(5.)

Devon Energy Production Company, LP (Operator of the Rattlesnake Federal Unit)
333 West Sheridan Ave.
Oklahoma City, OK 73102

The following is the surface owner:

United State of America
Bureau of Land Management
P.O. Box 27115
Santa Fe, NM 87502

Section 16: W/2, W/2E/2

Lease V-8570, dated 10/1/2009 covers N2

Lease V-8571, dated 10/1/2009 covers S2

(1.)

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79705

The following are the surface owners:

N2

State of New Mexico
P.O. Box 1148
Santa Fe, NM 87504

S2

United States of America
Bureau of Land Management
P.O. Box 27115
Santa Fe, NM 87502-0115

*All of the minerals for this tract are owned by the State of New Mexico. The United States of America only owns the surface in the S2.

Section 17: E/2

Lease NM-114991, dated 12/01/2005

(1.)

Devon Energy Production Company, LP
333 West Sheridan Ave.
Oklahoma City, OK 73102

(2.)

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

The following is the surface owner:

United State of America
Bureau of Land Management
P.O. Box 27115
Santa Fe, NM 87502

Section XIV--Proof of Notice to Leasehold Operators
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: Rattlesnake 16 SWD 1

Proof of Notice to Leasehold Operators within 1/2 mile of Rattlesnake SWD #1

Yates Petroleum Corporation ✓
105 S. Fourth Street
Artesia, New Mexico 88210

Certified receipt No.
7008 1830 0002 7421 9543

Abo Petroleum Corporation ✓
105 S. Fourth St.
Artesia, New Mexico 88210

Certified receipt No.
7008-1830-0002-7421-9611

Myco Industries, Inc. ✓
105 S. Fourth St.
Artesia, New Mexico 88210

Certified receipt No.
7008-1830-0002-7421-9604

Oxy Y-1 Company ✓
P.O. Box 4294
Houston, Texas 77210

Certified receipt No.
7008-1830-0002-7421-9598

COG Operating, LLC ✓
600 W. Illinois Avenue
Midland, Texas 79701

Certified receipt No.
7008-1830-0003-1986-3397

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

Certified receipt No.
7008-1830-0002-7421-9574

EOG Resources, Inc. ✓
P.O. Box 2267
Midland, Texas 79705

Certified receipt No.
7008-1830-0002-7421-9567

Bureau of Land Management ✓
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220

Certified receipt No.
7008-1830-0002-7421-9581

A copy of this application has been mailed to the above leasehold operators by certified mail, pertaining to Devon Energy's application for salt water disposal in the Rattlesnake 16 SWD #1.

Date Mailed:

01/13/2015
[Signature]

Signature:

Stephanie A. Porter, Operations Technician
Devon Energy Production Co., L.P.
333 West Sheridan Avenue
Oklahoma City, OK 73102

Date:

01/13/2015
[Signature]

Section XIV--Proof of Notice to Surface Land Owner
Devon Energy Prod Co LP
C108 Application For Injection
Proposed Well: Rattlesnake 16 SWD 1

Proof of Notice to Surface Land Owner of well location site.

New Mexico State Land Office ✓
Attn: Donald Martinez - Surface Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Certified receipt No.
7008 1830 0002 7421 9550

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 Rattlesnake 16 SWD #1.

Date Mailed: _____

8/13/2015

Signature: _____



Date: _____

8/13/2015

Stephanie A. Porter, Operations Technician
Devon Energy Production Co., L.P.
333 West Sheridan Avenue
Oklahoma City, OK 73102

116
Rattlesnake SWD 1
C108 Application for Injection
Injection Water Analysis
Bone Spring Formation
Devon Energy Production Co LP

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

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	578322
Lease/Platform:	ICHABOB 7 FED	Analysis ID #:	119387
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 578322 @ 75 F					
Sampling Date:	04/04/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	04/22/12	Chloride:	125645.0	3543.99	Sodium:	71749.9	3120.95
Analyst:	STACEY SMITH	Bicarbonate:	1049.2	17.2	Magnesium:	1291.0	106.2
TDS (mg/l or g/m3):	211246.6	Carbonate:	0.0	0.	Calcium:	7064.0	352.5
Density (g/cm3, tonne/m3):	1.138	Sulfate:	2840.0	59.13	Strontium:	426.0	9.72
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.5	0.01
		Borate:			Iron:	68.0	2.46
		Silicate:			Potassium:	1111.0	28.41
Carbon Dioxide:	50 PPM	Hydrogen Sulfide:		0	Aluminum:		
Oxygen:		pH at time of sampling:		6.7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.7	Lead:		
					Manganese:	2.000	0.07
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.34	151.28	0.22	569.17	0.25	501.24	0.63	202.66	0.81	0.29	1.43
100	0	1.40	159.85	0.14	387.63	0.24	479.26	0.61	198.10	0.61	0.29	1.8
120	0	1.45	168.13	0.07	210.09	0.25	497.53	0.59	195.53	0.43	0.29	2.24
140	0	1.50	176.69	0.01	40.82	0.28	548.91	0.58	194.39	0.27	0.00	2.73

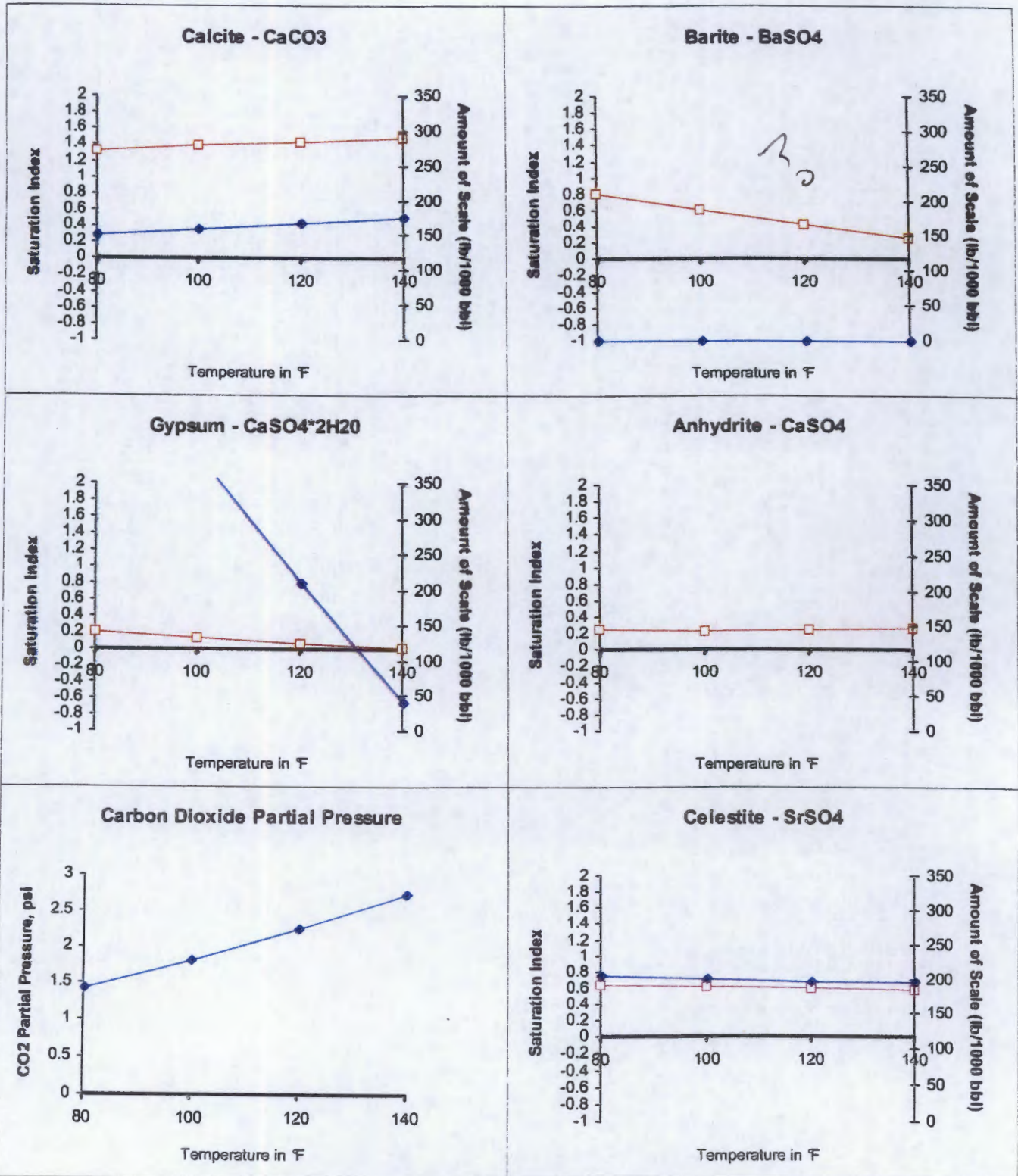
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Scale Predictions from Baker Petrolite

Analysis of Sample 578322 @ 75 °F for DEVON ENERGY CORPORATION, 04/22/12



16
Rattlesnake SWD 1
C108 Application for Injection
Injection Water Analysis
Delaware Formation ✓
Devon Energy Production Co LP

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

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (575) 910-9389
Area:	JAL, NM	Sample #:	578350
Lease/Platform:	RATTLESNAKE UNIT	Analysis ID #:	119388
Entity (or well #):	FEDERAL 6	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 578350 @ 75 °F					
Sampling Date:	04/04/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	04/22/12	Chloride:	161186.0	4546.47	Sodium:	66907.2	2910.3
Analyst:	STACEY SMITH	Bicarbonate:	24.4	0.4	Magnesium:	4104.0	337.61
TDS (mg/l or g/m3):	261471.6	Carbonate:	0.0	0.	Calcium:	25146.0	1254.79
Density (g/cm3, tonne/m3):	1.187	Sulfate:	1252.0	26.07	Strontium:	1169.0	26.68
Anion/Cation Ratio:	1	Phosphate:			Barium:	1.5	0.02
		Borate:			Iron:	42.0	1.52
		Silicate:			Potassium:	1631.0	41.71
Carbon Dioxide:	30 PPM	Hydrogen Sulfide:		0	Aluminum:		
Oxygen:		pH at time of sampling:		6	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6	Lead:		
					Manganese:	8.500	0.31
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0.53	0.00	0.30	329.32	0.35	287.24	0.54	330.96	0.73	0.55	0.12
100	0	-0.45	0.00	0.23	267.56	0.34	282.59	0.52	322.22	0.54	0.55	0.14
120	0	-0.37	0.00	0.17	208.53	0.36	292.43	0.51	319.76	0.38	0.55	0.16
140	0	-0.29	0.00	0.12	153.59	0.40	313.47	0.52	322.76	0.23	0.27	0.18

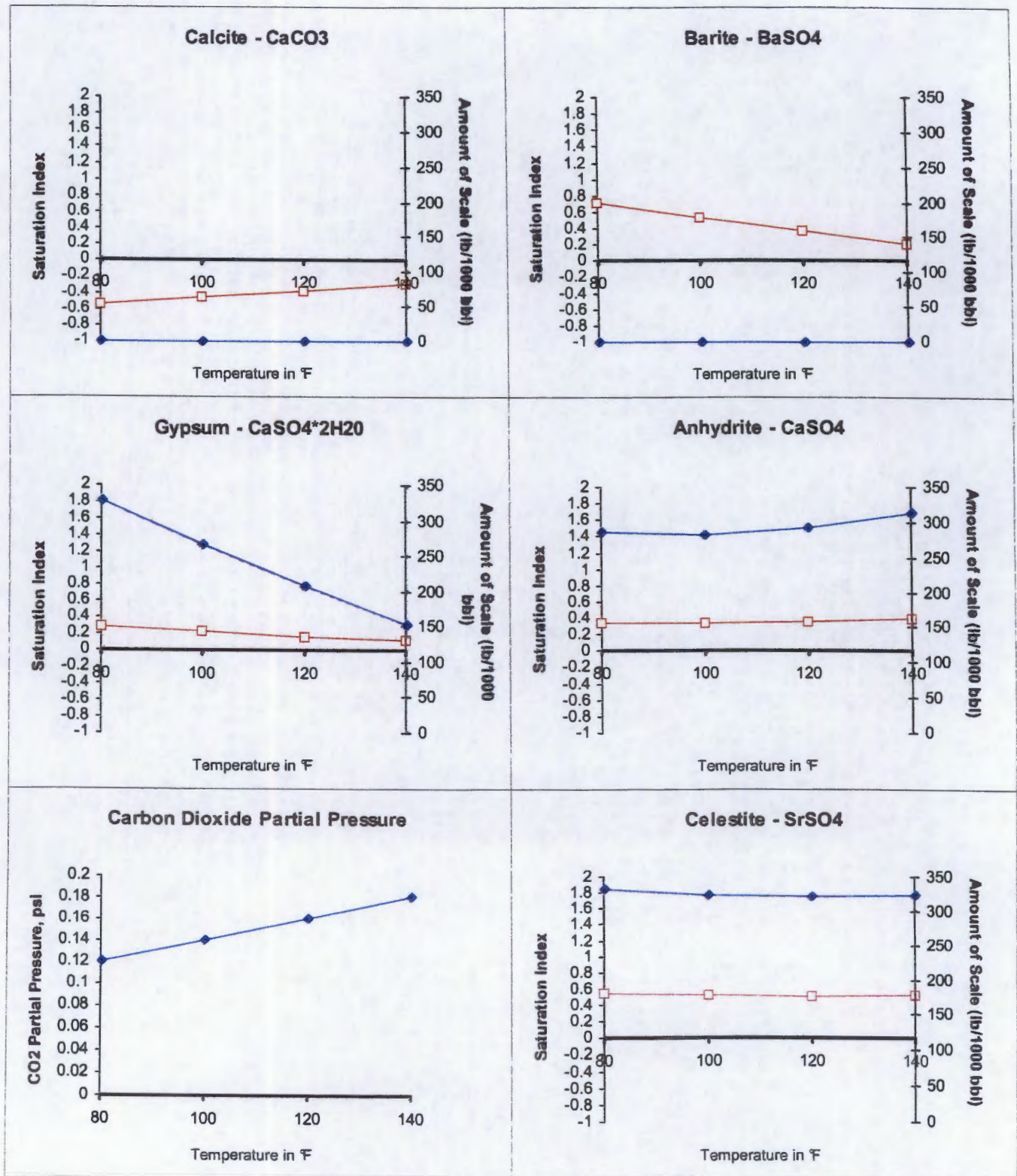
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Scale Predictions from Baker Petrolite

Analysis of Sample 578350 @ 75 °F for DEVON ENERGY CORPORATION, 04/22/12



Porter, Stephanie

From: Wiedenmann, Jeremy
Sent: Thursday, December 11, 2014 2:27 PM
To: 'classifieds@hobbsnews.com'; 'bookkeeping@hobbsnews.com'
Subject: Legal Notice: Rattlesnake 16 SWD 1
Attachments: Rattlesnake 16 SWD 1 Newspaper Legal Notice.doc

Good Afternoon,

Please run the attached legal notice for the Rattlesnake 16 SWD 1 in the Hobbs News Sun for one day only.

Please send affidavit of publication to Jeremy Wiedenmann at the address below:

Devon Energy Production Company, LP
Attn: Jeremy Wiedenmann – CT 28.413F
333 West Sheridan Drive
Oklahoma City, OK 73102-5010

Send billing to the attention of "Accounts Payable".

Devon Energy Corporation
Attn: DVNOKC98 – DVNART22
P.O. Box 3198
Oklahoma City, OK 73101-3198

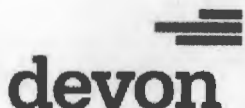
Can you please let me know the date this will run in the paper?

If possible please add somewhere to the invoice: **"SWD public notice on Rattlesnake 16 SWD 1; foreman Merle Lewis – DVNART22."**

Thank you.

Jeremy Wiedenmann
Production Technologist- Delaware Basin

Devon Energy Corporation
333 West Sheridan Ave
Oklahoma City, OK 73102
Office: 405 228 8845
Cell: 405 209 4518
Jeremy.Wiedenmann@devon.com



Legal Notice

Devon Energy Production Company, LP, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Rattlesnake16 SWD 1 will be a new drill; proposed location is 2,375' FNL & 210' FWL, Section 16, Township 26 South, Range 34 East, in Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring and/or Delaware formations. The disposal water will be injected into the Devonian/Silurian/Ordovician formation at a depth of 18,773 to 20,560', open hole, at a maximum surface pressure of 3,755 psi and a maximum rate of 20,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within (15) days of this notice. Any interested party with questions or comments may contact Josh Bruening at Devon Energy Corporation, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260, or call (405) 552-5069.

Porter, Stephanie

From: Amity Hipp-Ter1 <ter1@hobbsnews.com>
Sent: Friday, December 12, 2014 1:08 PM
To: Wiedenmann, Jeremy
Subject: Legal notice 29636
Attachments: th.jpeg; ATT00001.htm; 29636 devon bill.pdf; ATT00002.htm; 29636 devon notice.pdf; ATT00003.htm

Jeremy,

Attached is proof and bill statement for Legal Notice 29636. It is set to publish December 16, 2014. Please review and let me know if all is well to publish. Thank you.

Amity Hipp

Classified/Legal Department

Hobbs News Sun

201 N. Thorp, Hobbs, New Mexico 88240

(P) 575.391.5417 (F) 575.397.0610

ter1@hobbsnews.com

LEGAL NOTICE
December 16, 2014

Devon Energy Production Company, LP, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Rattlesnake16 SWD 1 will be a new drill; proposed location is 2,375' FNL & 210' FWL, Section 16, Township 26 South, Range 34 East, in Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring and/or Delaware formations. The disposal water will be injected into the Devonian/Silurian/Ordovician formation at a depth of 18,773 to 20,560', open hole, at a maximum surface pressure of 3,755 psi and a maximum rate of 20,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within (15) days of this notice. Any interested party with questions or comments may contact Josh Bruening at Devon Energy Corporation, 333 West Sheridan Avenue, Oklahoma City, OK 73102-8260, or call (405) 552-5069.

#29636

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised December 16, 2011

Permit

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, L.P. 333 WEST SHERIDAN OKLAHOMA CITY, OKLAHOMA 73102-5010		² OGRID Number 6137
		³ API Number
⁴ Property Code	⁵ Property Name RATTLESNAKE 16 SWD	⁶ Well No. 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	16	26S	34E		2375	NORTH	210	WEST	LEA

⁸ Pool Information

SWD: Dev-Fus-Mon-Sump	98109
-----------------------	-------

Additional Well Information

⁹ Work Type NW	¹⁰ Well Type SWD	¹¹ Cable/Rotary	¹² Lease Type STATE	¹³ Ground Level Elevation 3337.3
¹⁴ Multiple	¹⁵ Proposed Depth 21,000'	¹⁶ Formation Simpson	¹⁷ Contractor	¹⁸ Spud Date 6/10/2015
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	26"	20"	94#	750'	1730 sx	Surface
Int 1	17 1/2"	13 3/8"	68#	5300'	3700 sx	Surface
Int 2	12 1/4"	9 5/8"	47#	12485'	1850 sx	4800'
Prod	8 1/2"	7 5/8"	47.1#	18733'	440sx	11485'
	6 1/8"	OH		18733'-21000'		

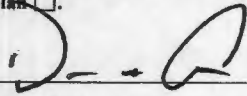
Casing/Cement Program: Additional Comments

20" Surface Lead w/1730sx Cl C Cmt + 63.5% Fresh Water, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 cf/sx; TOC @ surface.
 13-3/8" 1st Intermediate Lead w/2750sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW NaCl + 0.125 #/sx Poly-E-Flake + 71.4 % FW, 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx. Pump Tail w/950sx Cl C Cmt + 63.5% FW, 14.8 ppg, H2O: 6.32 gal/sx, Yld. 1.33 cf/sx; TOC @ surface.
 9-5/8" 2nd Intermediate Lead w/1260sx (65:35) Cl C Cmt: Poz (Fly Ash): 6% BWOC Bent + 5% BWOW NaCl + 0.125 #/sx Poly-E-Flake + 71.4 % FW, 12.9 ppg, H2O: 9.81 gal/sx, Yld. 1.85 cf/sx; Tail w/590sx 50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% FW, 14.4 ppg, H2O: 5.75 gal/sx, Yld. 1.24 cf/sx; TOC @ 4800'.
 7-5/8" Drilling Liner Lead w/270sx (65:35) Cl H Cmt: Poz (Fly Ash) + 6% BWOC Bent + 0.25% BWOC HR-601 + 0.125 #/sx Poly-E-Flake + 74.1 % FW, 12.5 ppg, H2O: 10.86 gal/sx, Yld. 1.96 cf/sx; Tail w/170sx (50:50) Cl H Cmt: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bent + 58.8% FW, 14.5 ppg, H2O: 5.31 gal/sx, Yld. 1.21 cf/sx; TOC @ 11485'.

Devon intends to use a closed loop system.
 Injection Interval: 18773' - 20560'
 See attached Drilling Program for additional details.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2000	2000	
Double Ram	3000	3000	
Double Ram	5000	5000	
Double Ram	10000	10000	

<p>I hereby certify that the information given above is true and complete to the best of my knowledge and belief.</p> <p>I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/>, a general permit <input type="checkbox"/>, or an (attached) alternative OCD-approved plan <input checked="" type="checkbox"/>.</p> <p>Signature: </p> <p>Printed name: David H. Cook</p> <p>Title: Regulatory Specialist</p> <p>E-mail Address: david.cook@dvn.com</p> <p>Date: 12/22/2014</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center; padding: 5px;">OIL CONSERVATION DIVISION</td> </tr> <tr> <td colspan="2" style="height: 40px; vertical-align: top; padding: 5px;">Approved By:</td> </tr> <tr> <td colspan="2" style="height: 30px; vertical-align: top; padding: 5px;">Title:</td> </tr> <tr> <td style="width: 50%; height: 30px; vertical-align: top; padding: 5px;">Approved Date:</td> <td style="width: 50%; height: 30px; vertical-align: top; padding: 5px;">Expiration Date:</td> </tr> <tr> <td colspan="2" style="height: 30px; vertical-align: top; padding: 5px;">Conditions of Approval Attached</td> </tr> </table>	OIL CONSERVATION DIVISION		Approved By:		Title:		Approved Date:	Expiration Date:	Conditions of Approval Attached	
OIL CONSERVATION DIVISION											
Approved By:											
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98109	³ Pool Name SWD: DEV-FUS-MON-SIMP
⁴ Property Code	⁵ Property Name RATTLESNAKE 16 SWD		⁶ Well Number 1
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3337.3

¹⁰ Surface Location

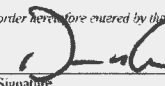
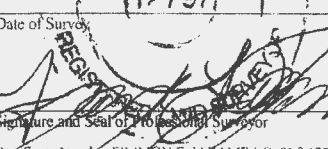
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	26 S	34 E		2375	NORTH	210	WEST	LEA

¹¹ 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

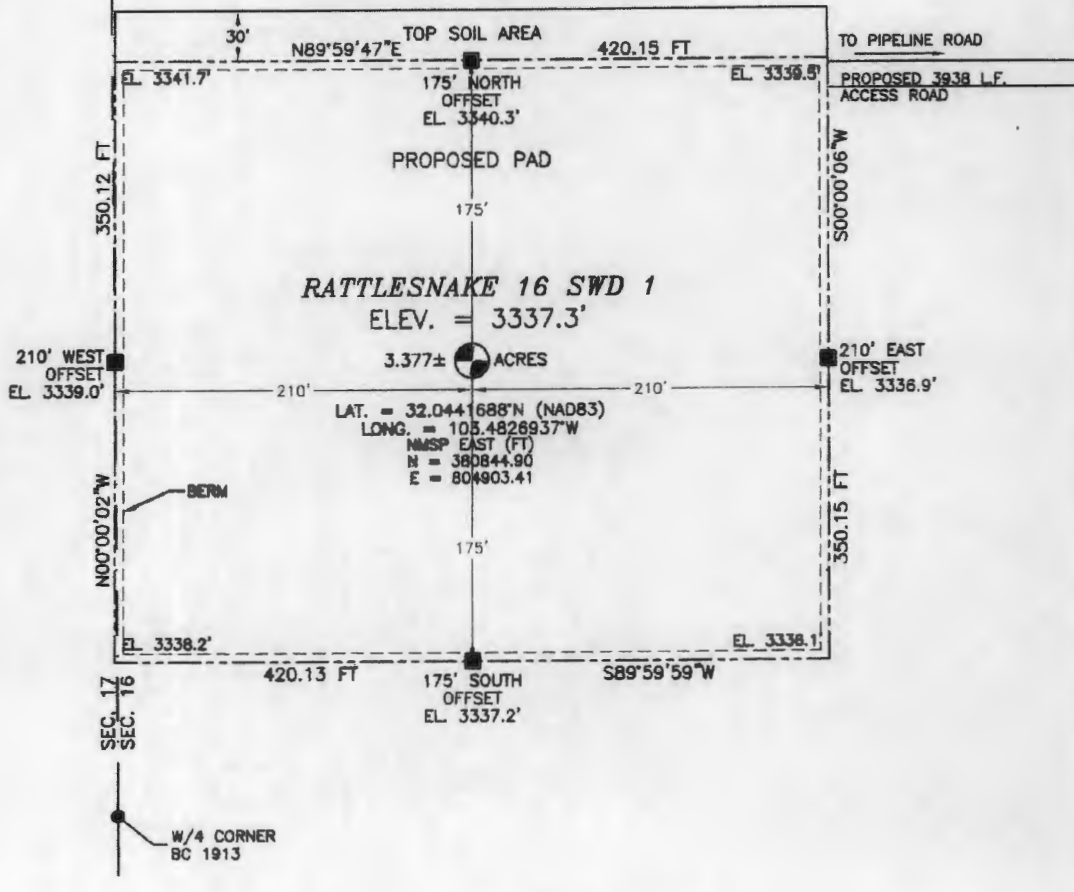
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

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>N89°29'36"E 2644.89 FT</p> <p>NW CORNER SEC. 16 LAT. = 32.0506956°N LONG. = 103.4833738°W NMSP EAST (FT) N = 383217.60 E = 804673.98</p> <p>N/4 CORNER SEC. 16 SCALED</p> <p>NE CORNER SEC. 16 LAT. = 32.0507085°N LONG. = 103.4663040°W NMSP EAST (FT) N = 383264.37 E = 809962.75</p> <p>2375' SURFACE LOCATION</p> <p>W/4 CORNER SEC. 16 LAT. = 32.0434438°N LONG. = 103.4833711°W NMSP EAST (FT) N = 380579.49 E = 804695.60</p> <p>210' SURFACE LOCATION</p> <p>SW CORNER SEC. 16 LAT. = 32.0361753°N LONG. = 103.4833609°W NMSP EAST (FT) N = 377935.32 E = 804719.56</p> <p>S/4 CORNER SEC. 16 LAT. = 32.0361857°N LONG. = 103.4748110°W NMSP EAST (FT) N = 377960.09 E = 807368.98</p> <p>SE CORNER SEC. 16 LAT. = 32.0361926°N LONG. = 103.4662911°W NMSP EAST (FT) N = 377983.66 E = 810009.13</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the commission.</p> <p> 12/22/2014 Signature Date</p> <p>David H. Cook Regulatory Specialist Printed Name</p> <p>david.cook@dmv.com E-mail Address</p> <p>¹⁸ 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>NOVEMBER 24, 2014 (12797) Date of Survey</p> <p> Signature and Seal of Professional Surveyor</p> <p>Certificate Number FILIMON F. JARAMILLO, PLS 12797 SURVEY NO. 2918B</p>
--	--	--

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.



DIRECTIONS TO LOCATION

FROM STATE HWY. #128 AND COUNTY ROAD #2 (BATTLE AXE) GO SOUTH AND WEST ON COUNTY ROAD #2 12.0 MILES TO A CALICHE ROAD ON LEFT (SOUTH) TURN ON CALICHE ROAD GO SOUTH APPROX. 0.8 MILES TO A PIPELINE ROAD THEN TURN LEFT (EAST) ON PIPELINE ROAD GO APPROX. 3.0 MILES TO A PIPELINE ROAD ON RIGHT (SOUTH) TURN ON PIPELINE ROAD GO SOUTHEAST ON PIPELINE ROAD APPROX. 1.7 MILES TO ROAD LATH WITH RED AND WHITE FLAGGING ON RIGHT SIDE (WEST OF ROAD) FOLLOW ROAD LATHS APPROX. 0.8 MILES TO LOCATION

DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1

LOCATED 2375 FT. FROM THE NORTH LINE
AND 210 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

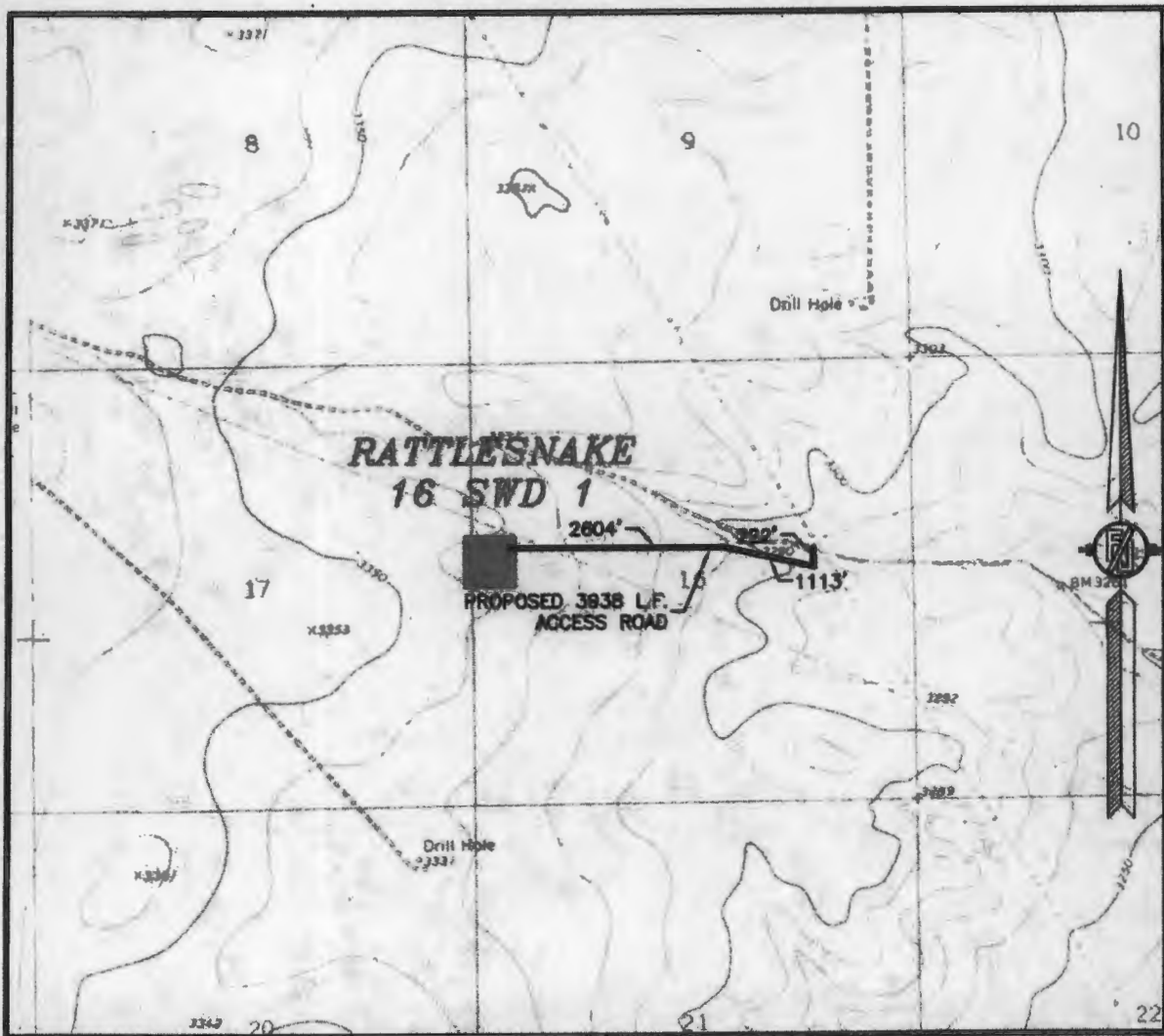
NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 **CARLSBAD, NEW MEXICO**

301 SOUTH CANAL
(575) 234-3341

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANDREWS PLACE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1

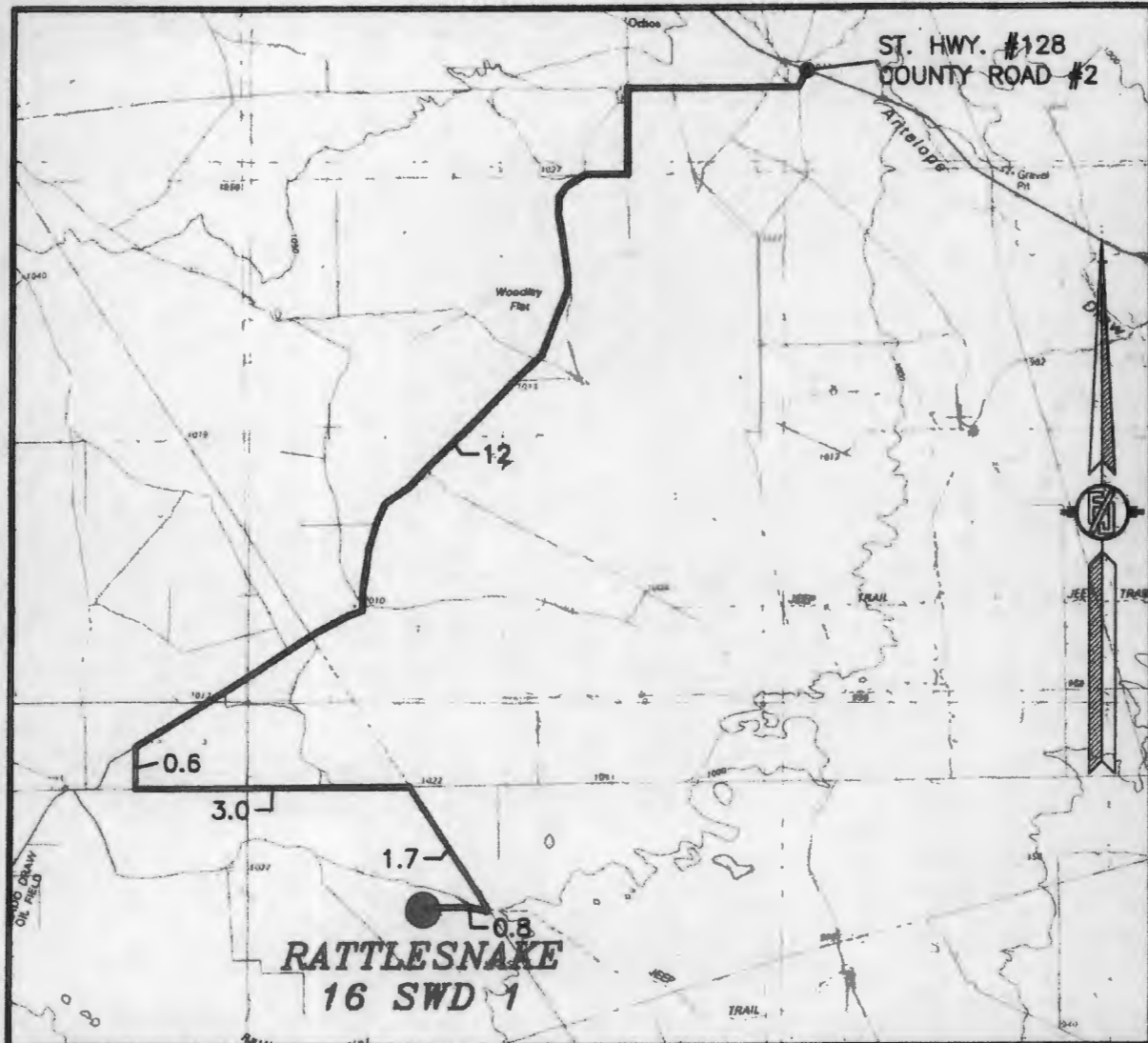
LOCATED 2375 FT. FROM THE NORTH LINE
AND 210 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE HWY. #128 AND COUNTY ROAD #2 (BATTLE AXE) GO SOUTH AND WEST ON COUNTY ROAD #2 12.0 MILES TO A CALICHE ROAD ON LEFT (SOUTH) TURN ON CALICHE ROAD GO SOUTH APPROX. 0.6 MILES TO A PIPELINE ROAD THEN TURN LEFT (EAST) ON PIPELINE ROAD GO APPROX. 3.0 MILES TO A PIPELINE ROAD ON RIGHT (SOUTH) TURN ON PIPELINE ROAD GO SOUTHEAST ON PIPELINE ROAD APPROX. 1.7 MILES TO ROAD LATH WITH RED AND WHITE FLAGGING ON RIGHT SIDE (WEST OF ROAD) FOLLOW ROAD LATHS APPROX. 0.8 MILES TO LOCATION

DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1

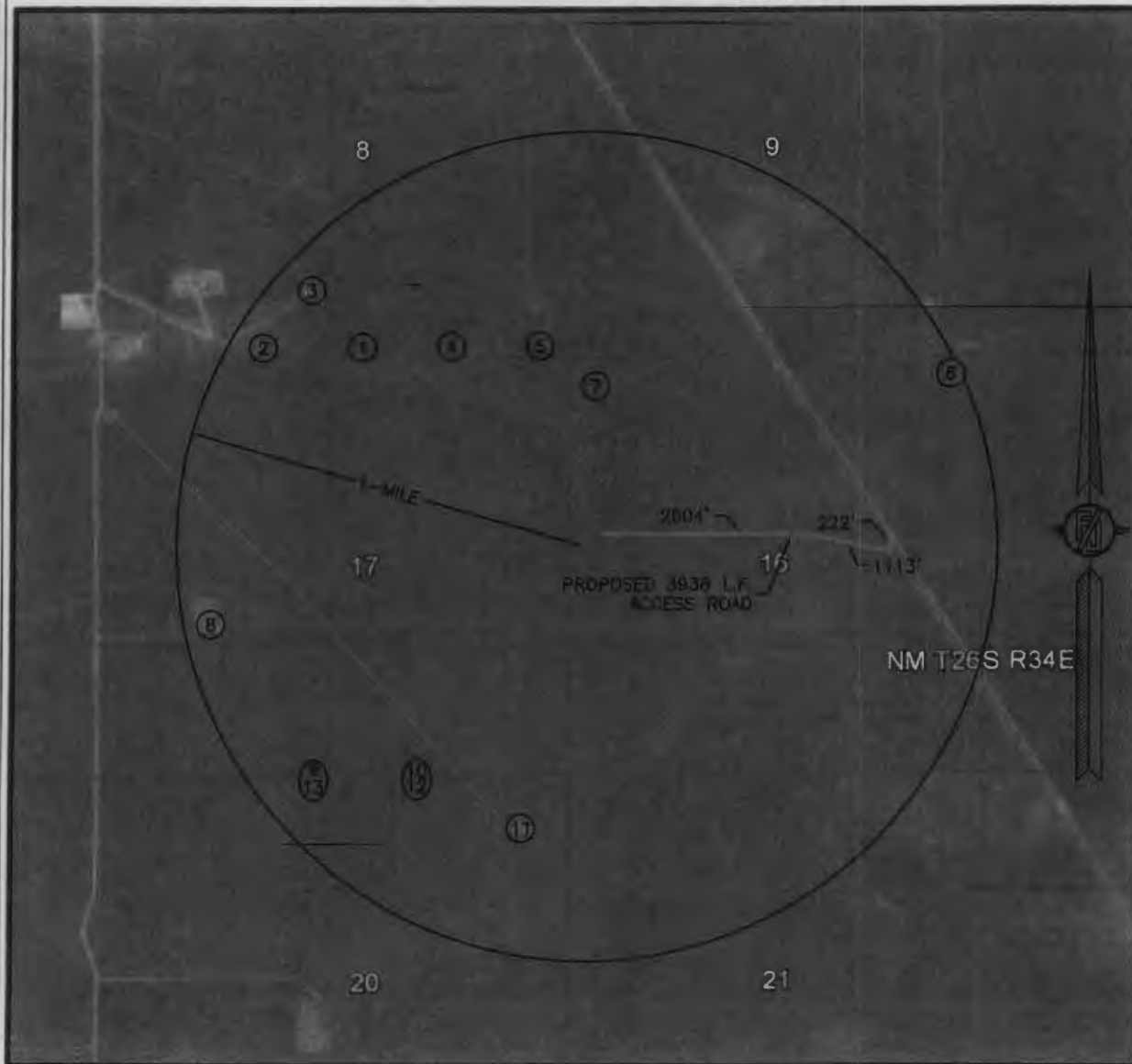
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LEA COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1

LOCATED 2375 FT. FROM THE NORTH LINE
AND 210 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

**SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
WELLS WITHIN 1-MILE OF WELL**

API	Well	Type	Status	ULSTR	Current Operator
1 30-025-41181	GUNNER 8 FEDERAL #006H	Oil	New	N-08-26S-34E	[229137] COG OPERATING LLC
2 30-025-41211	GUNNER 8 FEDERAL #007H	Oil	New	N-08-26S-34E	[229137] COG OPERATING LLC
3 30-025-28650	PRE-ONGARD WELL #001	Oil	Plugged	N-08-26S-34E	[214263] PRE-ONGARD WELL OPERATOR
4 30-025-41180	GUNNER 8 FEDERAL #005H	Oil	Active	O-08-26S-34E	[229137] COG OPERATING LLC
5 30-025-41187	GUNNER 8 FEDERAL #004H	Oil	New	P-08-26S-34E	[229137] COG OPERATING LLC
6 30-025-41649	NAUTILUS 16 STATE COM #601H	Oil	New	A-16-26S-34E	[7377] EOG RESOURCES INC
7 30-025-40890	GUNNER 16 STATE SWD #001	Salt Water Disposal	Active	D-16-26S-34E	[229137] COG OPERATING LLC
8 30-025-28402	PRE-ONGARD WELL #001	Oil	Plugged	L-17-26S-34E	[214263] PRE-ONGARD WELL OPERATOR
9 30-025-41232	GREEN WAVE 17 FEDERAL #001H	Oil	New	N-17-26S-34E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
10 30-025-41233	GREEN WAVE 17 FEDERAL #002H	Oil	New	O-17-26S-34E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
11 30-025-20440	PRE-ONGARD WELL #001	Oil	Plugged	A-20-26S-34E	[214263] PRE-ONGARD WELL OPERATOR
12 30-025-41235	GREEN WAVE 20 FEDERAL #003H	Oil	New	B-20-26S-34E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP
13 30-025-41234	GREEN WAVE 20 FEDERAL #002H	Oil	New	C-20-26S-34E	[6137] DEVON ENERGY PRODUCTION COMPANY, LP

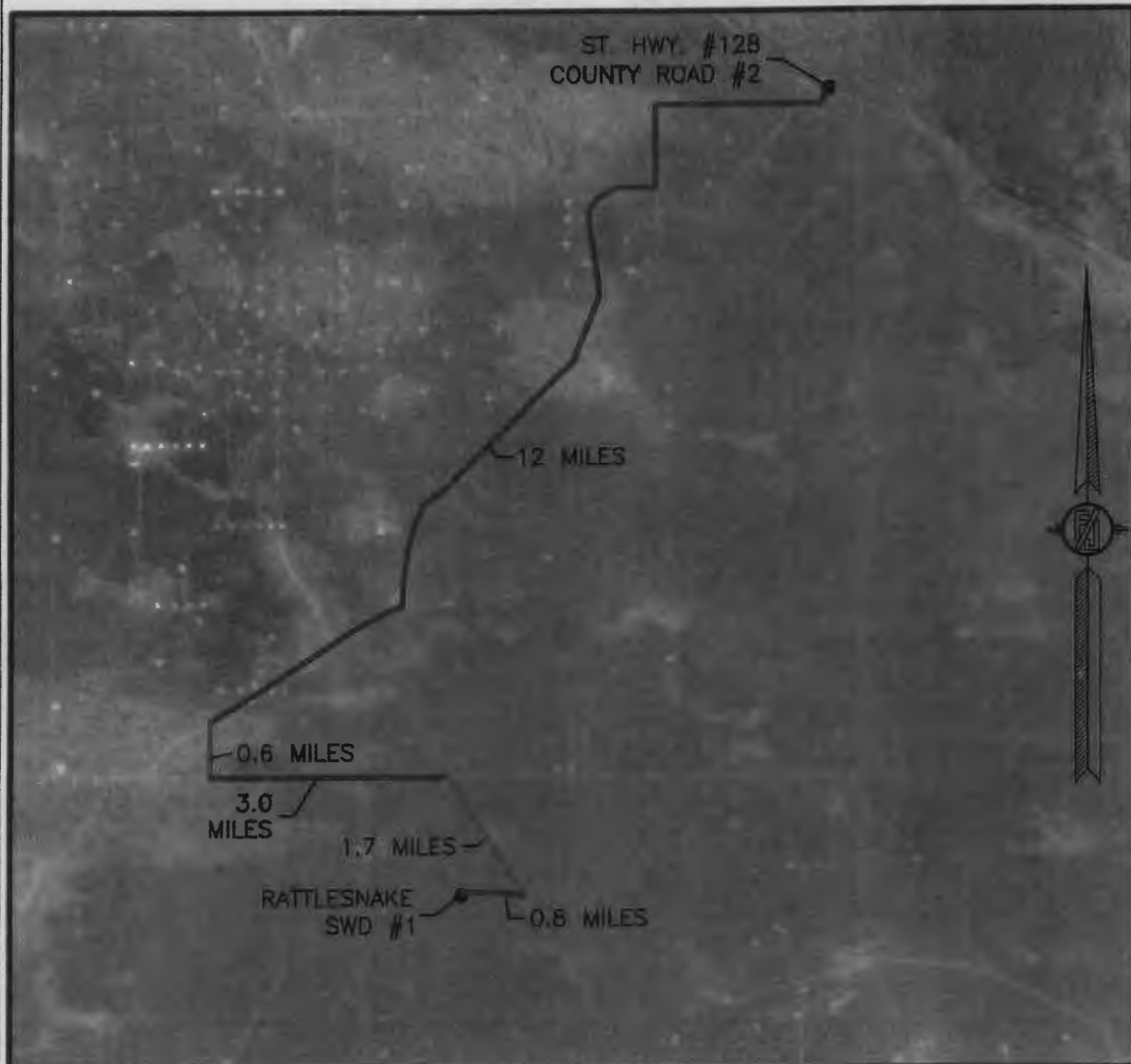
**DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1
LOCATED 2375 FT. FROM THE NORTH LINE
AND 210 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO**

NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2013

**DEVON ENERGY PRODUCTION COMPANY, L.P.
RATTLESNAKE 16 SWD 1**

**LOCATED 2375 FT. FROM THE NORTH LINE
AND 210 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO**

NOVEMBER 24, 2014

SURVEY NO. 2918B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 **CARLSBAD, NEW MEXICO**

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Rattlesnake 16 SWD 1

1. **Geologic Name of Surface Formation:** Quaternary
2. **Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:**

FORMATION NAME	TVD	Water, Oil/Gas
Rustler	706	
Top of Salt	1,173	
Castile	3,460	
Base of Salt	5,040	
Delaware	5,320	Oil
Bell Canyon	5,360	Oil
Cherry Canyon	6,412	Oil
Brushy Canyon	7,882	Oil
Bone Spring	9,617	Oil / Gas
1st Bone Spring Sand	10,541	Oil / Gas
2nd Bone Spring Lime	10,688	Oil / Gas
2nd Bone Spring Sand	11,093	Oil / Gas
3rd Bone Spring Lime	11,508	Oil / Gas
3rd Bone Spring Sand	12,127	Oil / Gas
Wolfcamp	12,502	Oil / Gas
Pennsylvanian	14,602	Oil / Gas
Strawn	14,013	Oil / Gas
Atoka	14,683	Gas
Morrow	15,529	Gas
Barnett	16,926	
Mississippian Lime	17,599	
Woodford	17,884	
Devonian	18,773	
Fusselman	19,648	
Montoya	20,140	
Simpson	20,581	
Ellenburger	21,121	
Estimated well Total Depth	TVD: 21,000	MD:

Pressure Control Equipment:

The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as a 2M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the first intermediate hole section. The BOP system will be tested as a 3M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 5M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the second intermediate hole section. The BOP system will be tested as a 5M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 10M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the third intermediate and open/injection hole sections. The BOP system will be tested as a 10M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 10,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

3. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
26"	0 - 750'	20"	0 - 750'	94	BTC	J-55	1.41	5.71	20.16
17-1/2"	750-5300'	13-3/8"	0-5300'	68	BTC	HCP-110	1.09	1.25	3.16
12-1/4"	5300-12485'	9-5/8"	0-12485'	47	BTC	HCP-110	1.22	1.45	2.56
8-1/2"	12485-18733'	7-5/8"	11985-18733'	47.1	BTC	P-110	1.10	1.05	1.75
6-1/8"	18733-21000'	Open hole							

Casing Notes:

- All casing is new and API approved
- Casing will never be completely evacuated

Maximum TVD: 21000'

4. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 750'	8.3	30-34	N/C	FW
750-5300'	10.0	28-32	N/C	Brine
5300-12485'	10	28-32	N/C	FW
12485-18733'	12.2-15.5	28-32	N/C	FW
18733-21000'	8.3-8.6	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

5. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume gal/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
20" Surface	1730	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
13-3/8" 1 st Intermediate	2750	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 71.4 % Fresh Water
	950	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" 2 nd Intermediate	1260	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 71.4 % Fresh Water
	590	14.4	5.75	1.24	Tail	50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% Fresh Water
7-5/8" Drilling Liner	270	12.5	10.86	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	170	14.5	5.31	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

Surface	@	0'
Intermediate I	@	0'
Intermediate II	@	4800'
Production	@	11485'

Notes:

- Cement volumes Surface 100%, 1st Intermediate 75%, 2nd Intermediate 50% and 3rd Intermediate based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

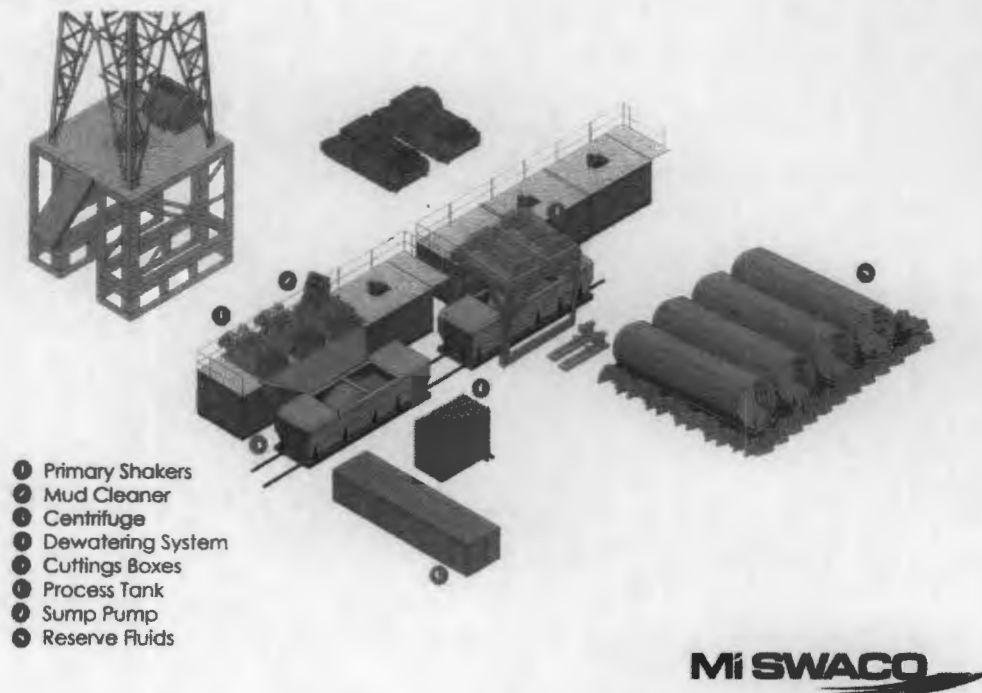
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

Jones, William V, EMNRD

From: Jones, William V, EMNRD
Sent: Thursday, February 12, 2015 2:16 PM
To: 'Porter, Stephanie'
Subject: Devon's proposed Rattlesnake 16 SWD Well No. 1 30-025-42355

Hey Stephanie,
Hope all is well.

I am almost through evaluating and all looks good (except for that bond item).

Question:

At this time, do you anticipate taking non-Devon operated waters into this well?

Thanks,
Will



William V. Jones, P.E., District IV Supervisor
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995

Jones, William V, EMNRD

From: Jones, William V, EMNRD
Sent: Thursday, February 12, 2015 3:32 PM
To: Sharp, Karen, EMNRD; 'Porter, Stephanie'
Cc: Sanchez, Daniel J., EMNRD
Subject: RE: 2/12/15 Inactive Wells

Karen,

I have this ready but will wait to release SWD until Stephanie tells me it is OK and does not appear as a "Y" on the extreme right column when you click:

<https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/Reporting/Compliance/InactiveWellFinancialAssuranceReport.aspx?Operator=6137>

Stephanie, would you please let me know?

Will

From: Sharp, Karen, EMNRD
Sent: Thursday, February 12, 2015 3:13 PM
To: Jones, William V, EMNRD
Subject: RE: 2/12/15 Inactive Wells

I just spoke with Erin Workman: she is currently working on paperwork we have requested, the completion for the Bogle being a part of that "stack". Should have it by mid-week next week. Thanks, Will!!

Karen Sharp

Business Operations Specialist-Advanced

NMOCD / ARTESIA / DISTRICT II

Office: (575) 748-1283 x 109

Fax: (575) 748-9720



C-108 Review Checklist: Received 1/16/15 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 14]

PERMIT TYPE: WFX / PMX (SWD) Number: 1526 Permit Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): Rochambeau 16 SWD

API: 30-0 25-42355 Spud Date: _____ New or Old: _____ (UIC Class II Primacy 03/07/1982)

Footages 2375 FNL/210 FWL Lot _____ or Unit E Sec 16 Tsp 26S Rge 34E County LEA

General Location: _____ Pool: _____ Pool No.: _____

BLM 100K Map: _____ Operator: Devon Energy, Production Co. LP. GRID: 6137 Contact: Stephanie A. Porter

COMPLIANCE RULE 5.9: Total Wells: 1990 Inactive: 7 Fincl Assur: one Compl. Order? _____ IS 5.9 OK? _____ Date: _____

WELL FILE REVIEWED ☒ Current Status: "NEW" status well

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Surface	26" 20"	750'	1730 SX	CIRC
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	17 1/2 - 13 1/8	5300'	3700	CIRC
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	12 1/4 - 9 5/8	12485'	1850	4800 Calc.
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Prod/Liner	8 1/2 - 7 5/8	18,773'	440 SX	11,485 Calc.
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Liner	TD 29560'			
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	OH / PERF	6 1/8"	18773 - 20560'	Inj Length 1787'	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.	17884	WOODFORD	<input checked="" type="checkbox"/>
Proposed Inj Interval TOP:	18,773	DEV. EUSSEL	<input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:	29560	DEV. MOUTOYA	
Confining Unit: Litho. Struc. Por.	26581	SIMPSON	<input checked="" type="checkbox"/>
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	29560' PBTD <u>2</u>
NEW TD	" NEW PBTD <u>→</u>
NEW Open Hole	<input type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Tubing Size	4 1/2 in. Inter Coated? <input checked="" type="checkbox"/>
Proposed Packer Depth	18,723 ft
Min. Packer Depth	(100-ft limit)
Proposed Max. Surface Press.	psi
Admin. Inj. Press.	3755 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ☒ Noticed? _____ BLM Sec Ord ☐ WIDE ☐ Noticed? _____ SALT/SALADO T: 1173 B: 5040 CLIFF HOUSE

FRESH WATER: Aquifer 180 - 475 Max Depth 796 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: _____ CAPITAN REEF: thru ☐ adj ☐ NAE ☐ No. Wells within 1-Mile Radius? _____ FW Analysis ☐

Disposal Fluid: Formation Source(s) BS/DEL Analysis? ☒ On Lease ☐ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): _____ Protectable Waters? NO Source: _____ System: Closed ☐ or Open ☐

HC Potential: Producing Interval? NO Formerly Producing? NO Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ☒

AOR Wells: 1/2-M Radius Map? ☒ Well List? ☒ Total No. Wells Penetrating Interval: 0 Horizontals? _____

Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date 12/16/14 Mineral Owner SLO/BLM Surface Owner SLO N. Date 1/15/15

RULE 26.7(A): Identified Tracts? _____ Affected Persons: DE/You et al/EOG/CHARON/SLO N. Date 1/15/15

Permit Conditions: Issues: None

Add Permit Cond: _____

Only DEVON water