

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|   |  |   |
|---|--|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) |  | WELL API NO.<br>30-025-42355  |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other   |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator<br>Devon Energy Production Company, LP  |  | 6. State Oil & Gas Lease No.  |
| 3. Address of Operator<br>333 West. Sheridan Avenue<br>Oklahoma City, OK 73102-5015 405-552-6558  |  | 7. Lease Name or Unit Agreement Name<br>Rattlesnake 16 SWD  |
| 4. Well Location<br>Unit Letter <u>E</u> : 2375 feet from the <u>N</u> line and <u>210</u> feet from the <u>W</u> line<br>Section <u>16</u> <u>26S</u> Township <u>34E</u> Range <u>NMPM</u> Lea County       |  | 8. Well Number<br>1   |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3337.3' GR  |  | 9. OGRID Number<br>6137   |
|   |  | 10. Pool name or Wildcat<br>SWD: Dev-Fus-Mon-Simp (98109)   |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO:                        |  | SUBSEQUENT REPORT OF:                            |  |
|--|--|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/>        | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input checked="" type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>          | CASING/CEMENT JOB <input type="checkbox"/>       |  |
| DOWNHOLE COMMINGLE <input type="checkbox"/>    |  |  |  |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>    |  |  |  |
| OTHER: <input type="checkbox"/>                |  | OTHER: <input type="checkbox"/>                  |  |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work).  
SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., L.P. respectfully requests approval to revise the approved drill plan as follows:

- Updated the geological marker table based on the latest geoprog
- 12-1/4" hole depth and associated 9-5/8" casing setting depth changed to 12,900' MD/TVD (this is the deepest we "could" set casing; however, may set shallower)
- 9-5/8" design factors updated
- 8-1/2" hole section updated with a TD ~20' from the top of the Devonian based on the new geoprog
- 7-5/8" liner changed to 7" 32#; associated design factors updated
- Open hole section changed to 6" from 6-1/8" (we can't drill 6-1/8" thru 7" 32#)
- Fluid for 8-1/2" hole section changed to OBM; MW window updated to include up to 16.0ppg fluid
- 9-5/8" casing lead cement changed to 10.8ppg Tuned Light and cement volumes updated
- Cement volumes updated for 7" liner
- TOC for 9-5/8" changed to 5, 100' which is 200' tieback
- TOC for 7" liner changed to TOL which is 500' of liner lap

See attached revised drill plan

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE: Regulatory Specialist DATE: 6/23/2015

Type or print name: David H. Cook E-mail address: david.cook@dmn.com PHONE: 405-552-7848

For State Use Only

APPROVED BY: [Signature] TITLE: Petroleum Engineer DATE: 06/23/15  
Conditions of Approval (if any):

JUN 24 2015

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## **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:**

| <b>FORMATION NAME</b>      | <b>TVD</b>  | <b>Water, Oil/Gas</b> |
|----------------------------|-------------|-----------------------|
| Rustler                    | 706         |                       |
| Top of Salt                | 1,173       |                       |
| Castile                    | 3,460       |                       |
| Base of Salt               | 5,040       |                       |
| Delaware                   | 5,320       | Oil                   |
| Bell Canyon                | 5381        | Oil                   |
| Cherry Canyon              | 6409        | Oil                   |
| Brushy Canyon              | 8083        | Oil                   |
| Bone Spring                | 9572        | Oil / Gas             |
| 1st BSPG Sand              | 10556       | Oil / Gas             |
| 2nd BSPG Lime              | 11021       | Oil / Gas             |
| 2nd BSPG Sand              | 11144       | Oil / Gas             |
| 3rd BSPG Lime              | 11533       | Oil / Gas             |
| 3rd BSPG Sand              | 12186       | Oil / Gas             |
| Wolfcamp                   | 12593       | 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                   | 18266       |                       |
|                            |             |                       |
| Devonian                   | 18476       |                       |
| Fusselman                  | 19648       |                       |
| Montoya                    | 20140       |                       |
| Simpson Group              | 20581       |                       |
| Ellenburger                | 21121       |                       |
| 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"   | 5300-12900'   | 9-5/8"    | 0-12900'        | 47             | BTC    | HCP-110 | 1.28                   | 1.14                | 1.75                  |
| 8-1/2"    | 12900-18460'  | 7"        | 12400-18460'    | 32             | BTC    | HCP-110 | 1.10                   | 1.29                | 3.4                   |
| 6"        | 18460-21000'  | 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       |
| 5300-12900'  | 9.0-9.5    | 28-32     | N/C        | FW          |
| 12900-18460' | 13.0-16.0  | 35-45     | <10        | OBM         |
| 18460-21000' | 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 <sup>st</sup> 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 <sup>nd</sup> Intermediate  | 993          | 10.8           | 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     |
|                                      | 960          | 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" Drilling Liner                    |              |                |                     |             |                  |   |
|                                      | 815          | 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 @ 5100'  
 Production @ 12400' (TOL)

### 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