

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

5. Lease Serial No.
NMNM0107697

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
ANTARES 23 FEDERAL 13H

9. API Well No.
30-015-42076-00-X1

10. Field and Pool, or Exploratory
WILLIAMS SINK

11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
DEVON ENERGY PRODUCTION CO
Contact: TRINA C COUCH
Email: trina.couch@dvn.com

3a. Address
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)
Ph: 405-228-7203

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 23 T19S R31E SWNW 2400FNL 0190FWL
32.646622 N Lat, 103.847921 W Lon

12. CHECK APPROPRIATE BOX(ES) 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"/> 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"/> Alter Casing |
| | <input type="checkbox"/> Reclamation |
| | <input type="checkbox"/> Water Shut-Off |
| | <input type="checkbox"/> Casing Repair |
| | <input type="checkbox"/> Well Integrity |
| | <input type="checkbox"/> Change Plans |
| | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Convert to Injection |
| | <input type="checkbox"/> Plug and Abandon |
| | <input type="checkbox"/> Plug Back |
| | <input type="checkbox"/> Temporarily Abandon |
| | <input type="checkbox"/> Water Disposal |
| | <input type="checkbox"/> Change to Original APD |

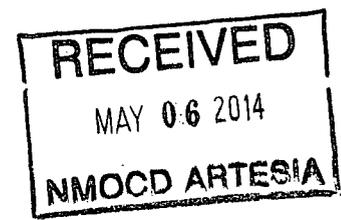
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths 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.)

Devon Energy Production Company, L.P. respectfully requests to eliminate the Pilot Hole and Wireline Logs as originally submitted. This does not change the well plan other than eliminating the need for the cement to plug and abandon the Pilot Hole.

Attached is the revised Drilling Plan

Thank you

TRD 5/6/14
Accepted for record
NMOCD



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

**Electronic Submission #236892 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMSS for processing by WESLEY INGRAM on 04/29/2014 (14WWI0285SE)**

Name (Printed/Typed) TRINA C COUCH Title REGULATORY ANALYST

Signature (Electronic Submission) Date 02/26/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS Title PETROLEUM ENGINEER Date 04/29/2014

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.

Drilling Program / Surface Use Plan
Antares 23 Fed 13H/No Pilot Hole

1. Casing and Cementing Plan Summary

The surface fresh water sands will be protected by setting 20" casing at 650' and circulating cement back to surface. The fresh water sands will be protected by setting 13-3/8" casing at 2,575' and 9-5/8" casing at 4,450' and circulating cement to surface. The Delaware intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement above the base of the 9-5/8" casing. 9 5/8" casing has a Collapse design factor of 1.23 as a worst case. This string will never be completely evacuated nor utilized as a production string. All casing is new and API approved.

2. Casing Program:

| Hole Size | Hole Interval | Casing OD | Casing Interval | Weight | Collar | Grade |
|-----------|---------------|-----------|-----------------|--------|--------|---------|
| 26" | 0 - 650 | 20" | 0 - 650 | 94# | BTC | J/K-55 |
| 17-1/2" | 0 - 2575 | 13-3/8" | 0 - 2575 | 68# | BTC | J/K-55 |
| 12-1/4" | 2575 - 4450 | 9-5/8" | 0 - 4450 | 40# | LTC | J-55 |
| 8-3/4" | 4450 - 8600 | 5-1/2" | 0 - 8600 | 17# | LTC | HCP-110 |
| 8-3/4" | 8600 - 13607 | 5-1/2" | 8600 - 13607 | 17# | BTC | HCP-110 |

3. Design Factors:

| Casing Size | Collapse Design Factor | Burst Design Factor | Tension Design Factor |
|-------------|------------------------|---------------------|-----------------------|
| 20" | 1.71 | 6.94 | 24.22 |
| 13-3/8" | 1.46 | 2.58 | 6.11 |
| 9-5/8" | 1.23 | 1.90 | 3.54 |
| 5-1/2" LTC | 2.13 | 2.64 | 1.92 |
| 5-1/2" BTC | 1.98 | 2.45 | 5.23 |

Drilling Program / Surface Use Plan
Antares 23 Fed 13H/No Pilot Hole

4. Cement Program:

| String | Slurry | Amount and Type of Cement |
|----------------------|---|--|
| Surface | Lead | 801 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.1% Fresh Water, 13.5 ppg, 1.73 cf/sk |
| | Tail | 300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg, 1.35 cf/sk |
| 13-3/8" Intermediate | Lead | 1465 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 83.4% Fresh Water, 12.8 ppg, 1.65 cf/sk |
| | Tail | 450 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water, 13.8 ppg, 1.38 cf/sk |
| 9-5/8" Intermediate | 1st STAGE | |
| | Lead | 520 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 89.6% Fresh Water, 12.6 ppg, 1.73 cf/sk |
| | Tail | 300 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water, 13.8 ppg, 1.38 cf/sk |
| | 2nd STAGE (DV tool and ECP at 2,650 ft) | |
| | Lead | 435 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 83.4% Fresh Water, 12.8 ppg, 1.65 cf/sk |
| | Tail | 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water, 13.8 ppg, 1.38 cf/sk |
| Production | Lead | 635 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 6% bwoc Bentonite + 0.7% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg, 2.01 cf/sk |
| | Tail | 1700 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.6% bwoc Sodium Metasilicate + 0.4% bwoc FL-52A + 57.3% Fresh Water, 14.2 ppg, 1.28 cf/sk |
| | 2nd STAGE (DV tool and ECP at 4,500 ft) | |
| | Lead | 135 sacks Class C Cement + 1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3% bwoc Sodium Metasilicate + 157% Fresh Water, 11.40 ppg, 2.88 cf/sk |
| | Tail | 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.1% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.4% Fresh Water, 13.80 ppg, 1.37 cf/sk |

| String | TOC |
|----------------------|--|
| 20" Surface | Surface |
| 13-3/8" Intermediate | Surface |
| 9-5/8" Intermediate | Surface |
| 5-1/2" Production | 2,300' (~350' above top of Capitan Reef) |

Drilling Program / Surface Use Plan
Antares 23 Fed 13H/No Pilot Hole

The above cement volumes are based on 25% excess. Actual cement volumes could be adjusted based on fluid caliper and caliper log data.

5. **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 per BLM Onshore Oil and Gas Order 2 as a 2M system 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 surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

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

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 3,000 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.

6. **Proposed Mud Circulation System:**

| Depth Range | Mud Weight | Viscosity | Fluid Loss | Type System |
|------------------|------------|-----------|------------|-------------|
| 0 - 650' | 8.4 - 9.0 | 28-34 | NC | Fresh Water |
| 650' - 2,575' | 9.8 - 10 | 28-32 | NC | Brine |
| 2,575' - 4,450' | 8.4 - 9.0 | 28-32 | NC | Fresh Water |
| 4,450' - 13,607' | 8.4 - 9.0 | 28-32 | NC-12 | Fresh Water |

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. **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.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13-3/8" casing shoe until the 5-1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13-3/8" shoe until total depth is reached.

8. Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP of 3,600 psi and estimated BHT 145°. No H₂S is anticipated to be encountered.

9. Anticipated Starting Date and Duration of Operations:

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as a rig becomes available following BLM approval. Move in operations and drilling is expected to take 32 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

10. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

11. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in a closed loop system.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier will pick up salts remaining, including broken sacks, after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO