Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

## 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.***

HOBBS OCD

JUN 10 2019

RECEIVED

***SUBMIT IN TRIPLICATE - Other instructions on page 2***

5. Lease Serial No.
NMNM97153

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
VACA DRAW 9418 10 FED 13H

2. Name of Operator
BTA OIL PRODUCERS LLC
Contact: SAMMY HAJAR
E-Mail: shajar@btaoil.com

9. API Well No.
30-025-45932-00-X1

3a. Address
104 S. PECOS
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-682-3753

10. Field and Pool or Exploratory Area
BOBCAT DRAW-UPR WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 10 T25S R33E SWSW 220FSL 1305FWL
32.138416 N Lat, 103.564568 W Lon

11. County or Parish, State
LEA COUNTY, NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

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

Please see attachment

Carlsbad Field Office
OCD Hobbs

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

**Electronic Submission #464666 verified by the BLM Well Information System**
**For BTA OIL PRODUCERS LLC, sent to the Hobbs**
**Committed to AFMSS for processing by TENILLE ORTIZ on 05/23/2019 (19TO0002SE)**

Name *(Printed/Typed)* SAMMY HAJAR — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 05/08/2019

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By LONG VO — Title PETROLEUM ENGINEER — Date 05/23/2019

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 Hobbs

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.

(Instructions on page 2)

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

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | BTA OIL PRODUCERS LLC |
| **LEASE NO.:** | NMNM097153 |
| **WELL NAME & NO.:** | 13H – VACA DRAW 9418 10 FED |
| **SURFACE HOLE FOOTAGE:** | 220'/S & 1305'/W |
| **BOTTOM HOLE FOOTAGE** | 50'/N & 990'/W |
| **LOCATION:** | SECTION 10, T25S, R33E, NMPM |
| **COUNTY:** | LEA |

COA

| | | | |
|---|---|---|---|
| H2S | ◉ Yes | ○ No | |
| Potash | ◉ None | ○ Secretary | ○ R-111-P |
| Cave/Karst Potential | ◉ Low | ○ Medium | ○ High |
| Variance | ○ None | ◉ Flex Hose | ○ Other |
| Wellhead | ○ Conventional | ○ Multibowl | ◉ Both |
| Other | ☐ 4 String Area | ☐ Capitan Reef | ☐ WIPP |
| Other | ☑ Fluid Filled | ☐ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | ☐ COM | ☐ Unit |

**All Previous COAs Still Apply**

## A. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1200 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

3. The minimum required fill of cement behind the production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

# GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

BTA OIL PRODUCERS LLC RESPECTFULLY REQUEST THE FOLLOWING CHANGES TO THE ORIGINAL APD AS APPROVED.

# BATCH DRILLING SEQUENCE OF THE 12H, 13H, 14H, 15H:

-SPUD Vaca #15H – rig up walked in, drill 14-3/4" hole and set 10-3/4" csg
-Walk to Vaca Draw #14H, SPUD 14-3/4" hole and set 10-3/4" csg
-Walk to Vaca Draw #13H, SPUD 14-3/4" hole and set 10-3/4" csg
-Walk to Vaca Draw #12H, SPUD 14-3/4" hole and set 10-3/4" csg, test BOP, drill and set 7-5/8" csg
-Walk to Vaca Draw #13H, test BOP, drill 9-7/8" hole and set 7-5/8" csg
-Walk to Vaca Draw #14H, test BOP, drill 9-7/8" hole and set 7-5/8" csg
-Walk to Vaca Draw #15H, test BOP, drill 9-7/8" hole, run triple combo, and set 7-5/8" csg, drill pilot hole, run quad combo, set open hole whipstock, drill and set 5-1/2" x 5" casing.
-Walk to Vaca Draw #14H, test BOP, drill and set 5-1/2" x 5" csg
-Walk to Vaca Draw #13H, test BOP, drill and set 5-1/2" x 5" csg
-Walk to Vaca Draw #12H, test BOP, drill and set 5-1/2" x 5" csg
-Rig release

# Mud Program 13H:

***Original APD***

-Surface Section – Fresh water 8.3 - 8.4 ppg
-Intermediate – Brine 10.0 – 10.2 ppg
-2nd Intermediate – Cut brine 8.6 – 9.2 ppg
-Production – OBM 11.5 – 12.0 ppg

***Proposed Change***

-Surface Section – Fresh water 8.3 - 8.4 ppg
-Intermediate – DBE 9.0 - 9.4 ppg
-Production – OBM 11.5 – 12.0 ppg

# Casing Program

Casing Program **13H**

***Original APD***

-Surface – 13-3/8" 54.5# J-55 STC set at 1200' in a 17-1/2" hole
-Intermediate - 9-5/8" 40# J-55 @ 5000' in a 12-1/4" hole
-2nd Intermediate - 7" 29# P-110 @ 12558' in a 8-3/4" hole
-Liner - 4-1/2" 11.6# P-110 liner from 11958' – 17501' in a 6-1/8" hole

***Proposed Change***

1200' See COA

-10-3/4" 40.5# J-55 STC set at ~~1250~~' (TVD 1250') in a 14-3/4" hole
-7-5/8" 29.7# P-110 BTC @ 11871' (TVD 11862') in a 9-7/8" hole with DV tool at 5025' (TVD 5025')
-11671' (TVD 11662') of 5-1/2" 23# P-110 BTC and 5736' of 5" 18# P-110 BTC set at 17407' (TVD 12373') in a 6-3/4" hole

# Cement Programs

**Vaca Draw #13H**

Lead 640 sx; 1.74 cfs; 13.5 ppg; 100% Class C; 100% excess

Tail 200 sx; 1.34 cfs; 14.8 ppg; 100% Class C ; 100% excess

-Intermediate Cement

Stage 1 Lead 465 sx; 2.64 cfs; 10.5 ppg; 50:50 Class H; 15% excess

Stage 1 Tail 400 sx; 1.19 cfs; 15.6 ppg; 100% Class H; 15% excess

Stage 2 Lead 740 sx; 2.19 cfs; 12.7 ppg 100% Class C; 50% excess

Stage 2 Tail 150 sx; 1.33 cfs; 14.8 ppg; 100% Class C; 25% excess

-Production Cement

Tail 625 sx; 1.27 cfs; 14.8 ppg; 50% POZ 50% Class H; 10% excess

## Variances:

-5M BOP on 9-7/8" hole

-10M BOP with 5M annular for 6-3/4" hole

-Wave the centralizer requirements for the 5-1/2" and 5" casing in the 6-3/4" hole size. An expansion additive will be utilized in the cement slurry for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.