

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.  
NMSF079232

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.  
BOLACK C LS 16A9. API Well No.  
30-045-26662-00-C210. Field and Pool, or Exploratory  
BLANCO MESAVERDE  
OTERO CHACRA11. County or Parish, and State  
SAN JUAN COUNTY, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
XTO ENERGY INCContact: KRISTEN D LYNCH  
E-Mail: Kristen\_Lynch@xtoenergy.com

3a. Address

ENGLEWOOD, CO 80155

3b. Phone No. (include area code)  
Ph: 505-333-3206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 33 T27N R8W NESE 1565FSL 1025FEL  
36.527210 N Lat, 107.681820 W Lon

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

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

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 recompleat 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 recompleat 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.)

XTO Energy Inc. requests to plug and abandon this well per the attached procedure. A Closed Loop System will be used. Please see attached Current and proposed wellbore diagrams.

OIL CONS. DIV DIST. 3

Per Onshore Order 1 Sec. III.D.4.j & Sec. XII, XTO Energy is amending the original reclamation plan that was approved with this wells original APD. The attached plan will supersede/replace all other plan/s on record.

NOV 09 2015

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**Notify NMOCD 24 hrs  
prior to beginning  
operations**BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDS**

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

Electronic Submission #321254 verified by the BLM Well Information System  
For XTO ENERGY INC, sent to the Farmington  
Committed to AFMSS for processing by JACK SAVAGE on 11/03/2015 (16JWS0023SE)

Name (Printed/Typed) KRISTEN D LYNCH

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/23/2015

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE

Title PETROLEUM ENGINEER

Date 11/03/2015

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 Farmington

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

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*****NMOCD**KC  
7



LWA \_\_\_\_\_  
MTG \_\_\_\_\_  
Approved \_\_\_\_\_

## PLUG AND ABANDONMENT PROCEDURE

June 25, 2014

### Bolack C LS #16A

Blanco Mesaverde / Otero Chacra  
1565' FSL, 1025' FEL, Section 33, T27N, R8W, San Juan County, New Mexico  
API 30-045-26662 / Lat: \_\_\_\_\_ N Long: \_\_\_\_\_ W

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
2. Rods: Yes ☒, No ☐, Unknown ☐  
Tubing: Yes ☒, No ☐, Unknown ☐, Size 2-3/8", Length 5585'  
Packer: Yes ☐, No ☒, Unknown ☐, Type \_\_\_\_\_  
If well has rods or a packer, then modify the work sequence in Step #2 as appropriate. Round trip 4.5" gauge ring to 5162'
3. **Plug #1 (Mesaverde perforations and top, 5162' – 4498')**: TIH and set 4.5" cement retainer at 5162'. Load casing with water and circulate well clean. Pressure tests tubing to 1000#. Mix 55 sxs Class B cement above CR to isolate the Mesaverde interval. TOH.
4. **Plug #2 (Chacra perforations and top, 3786' – 3736')**: TIH and set 4.5" cement retainer at 3786'. Load casing with water and circulate well clean. Pressure test casing to 1000#. **If the casings do not test, then spot or tag subsequent plugs as appropriate.** Mix 8 sxs Class B cement above CR to isolate the Chacra interval. PUH.
5. **Plug #3 (7" shoe, 4.5" liner top and Pictured Cliffs top, 3400' – 2819')**: Mix and pump 60 sxs Class B cement and spot a balanced plug inside casing to cover through the Pictured Cliff top. PUH.
6. **Plug #4 (Fruitland, Kirtland, and Ojo Alamo top, 2663' – 2095')**: Mix and pump 116 sxs Class B cement and spot a balanced plug inside casing to cover through the Ojo Alamo top. PUH.
7. **Plug #5 (Nacimiento top, 890' – 790')**: Mix and pump 29 sxs Class B cement and spot a balanced plug inside casing to cover the Nacimiento top. PUH.
10. **Plug #6 (Surface plug, 368' - Surface)**: Mix and pump approximately 79 sxs cement and spot a balanced plug inside casing. Shut in well and WOC.
11. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# **Bolack C LS #16A**

## **Current**

Blanco Mesaverde /Otero Chacra  
1565' FSL, 1025' FEL, Section 33, T-27-N, R-8-W,  
San Juan County, NM / API #30-045-26662  
Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 6/25/14  
Spud: 1/22/86  
PC Comp: 4/14/11  
MV Comp: 12/14/86  
Elevation: 6963' GL  
6975' KB

Nacimiento @ 840 \*est'

Ojo Alamo @ 2145'

Kirtland @ 2277'

Fruitland @ 2613'

Pictured Cliffs @ 2950'

Chacra @ 3836 \*est

Mesaverde @ 4548'

12.25" hole

8.75" hole to 3350'

6.25" hole to 5676'

9.625" 36#, Casing set @ 318'  
Cement with 220 sxs (Circ cmt to surf)

2-3/8" tubing at 5585'  
(179 jts, 4.7#, J-55, SN @ 5563' with  
rods and pump)

4.5" liner top at 2869'

4.5" TOC @ 2869'

7", 23#, K-55 Casing set @ 3350'  
Cement w/490 sxs tailed w/ 100 sxs.  
(Circ cmt to Surf)

Chacra Perforations:  
3836' - 4048' (sqz'd with 100 sxs Type III  
cmt tailed w/150 sxs Type III Neat cmt)

Mesaverde Perforations:  
5212' - 5529'

4.5", 10.5", K-55 liner set @ 5676'  
Cement with 170 sxs tailed w/150 sxs cmt.  
Circ 26 BBLS cmt to surf.

TD 5676'  
PBD 5640'



**Bolack C LS #16A**  
**Proposed P&A**  
 Blanco Mesaverde /Otero Chacra  
 1565' FSL, 1025' FEL, Section 33, T-27-N, R-8-W,  
 San Juan County, NM / API #30-045-26662  
 Lat \_\_\_\_\_ / Long \_\_\_\_\_

Today's Date: 6/25/14  
 Spud: 1/22/86  
 PC Comp: 4/14/11  
 MV Comp: 12/14/86  
 Elevation: 6963' GL  
 6975' KB

Nacimiento @ 840 \*est'

Ojo Alamo @ 2145'

Kirtland @ 2277'

Fruitland @ 2613'

Pictured Cliffs @ 2950'

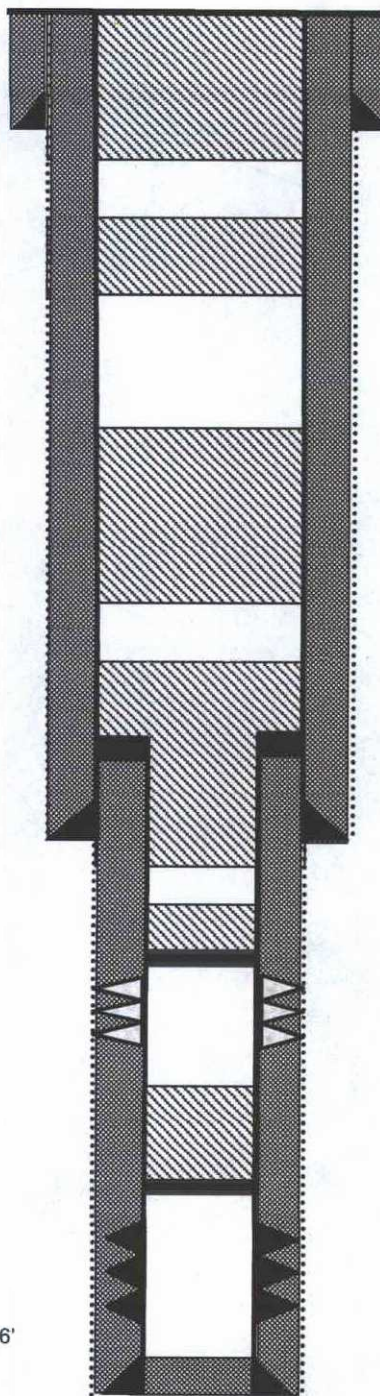
Chacra @ 3836 \*est

Mesaverde @ 4548'

12.25" hole

8.75" hole to 3350'

6.25" hole to 5676'



TD 5676'  
 PBD 5640'

**Plug #6: 368' – 0'**  
 Class B cement, 79 sxs

9.625" 36#, Casing set @ 318'  
 Cement with 220 sxs (Circ cmt to surf)

**Plug #5: 890' – 790'**  
 Class B cement, 29 sxs

**Plug #4: 2663' – 2095'**  
 Class B cement, 116 sxs

4.5" liner top at 2869'  
 4.5" TOC @ 2869'

7", 23#, K-55 Casing set @ 3350'  
 Cement w/490 sxs tailed w/ 100 sxs.  
 (Circ cmt to Surf)

**Plug #3: 3400' – 2819'**  
 Class B cement, 60 sxs

**Cmt Retainer @ 3786'**

Chacra Perforations:  
 3836' – 4048' (sqz'd with 100 sxs Type III  
 cmt tailed w/150 sxs Type III Neat cmt)

**Plug #2: 3786' – 3736'**  
 Class B cement, 8 sxs

**Cmt Retainer @ 5162'**

Mesaverde Perforations:  
 5212' – 5529'

**Plug #1: 5162' – 4498'**  
 Class B cement, 55 sxs

4.5", 10.5", K-55 liner set @ 5676'  
 Cement with 170 sxs tailed w/150 sxs cmt.  
 Circ 26 BBLs cmt to surf.

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Bolack C LS #16A

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Set plug #3 (2749-2003) ft. to cover the Fruitland, Kirtland, and Ojo Alamo tops. BLM picks top of Ojo Alamo at 2053 ft. BLM picks top of Fruitland at 2699 ft.
  - b) Set plug #5 (1003-903) ft. to cover the Nacimiento top. BLM picks top of Nacimiento at 953 ft.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.



**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log (CBL) is required to be ran if one had not been previously ran or cement did not circulate to surface during the primary cement job or subsequent cement job.**



5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H<sub>2</sub>S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.