

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144  
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

- Type of action:  Below grade tank registration  
 Permit of a pit or proposed alternative method  
 Closure of a pit, below-grade tank, or proposed alternative method  
 Modification to an existing permit/or registration  
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

OIL CONS. DIV DIST. 3

SEP 16 2016

**Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request**

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: XTO Energy, Inc OGRID #: 5380  
Address: 382 Road 3100 Aztec, NM 87410  
Facility or well name: Bolack C "LS" #16A  
API Number: 30-045-26662 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr I Section 33 Township 27N Range 8W County: San Juan  
Center of Proposed Design: Latitude 36.3165056 Longitude -107.4094278 NAD:  1927   
1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  Multi-Well Fluid Management Low Chloride Drilling Fluid  yes  no  
 Lined  Unlined Liner type: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
 **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 120 bbl Type of fluid: Produced Water  
Tank Construction material: Steel  
 Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
 Visible sidewalls and liner  Visible sidewalls only  Other Visible side walls, vaulted automatic high-level shut off, no liner.  
Liner type: Thickness \_\_\_\_\_ mil  HDPE  PVC  Other \_\_\_\_\_

4.  
 **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.  
**Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
 Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
 Four foot height, four strands of barbed wire evenly spaced between one and four feet  
 Alternate. Please specify Four foot high, Steel mesh field fence(Hog Wire)with pipe top railing \_\_\_\_\_

34

6.

**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen  Netting  Other\_ Expanded metal or solid vaulted top\_\_\_\_\_
- Monthly inspections (If netting or screening is not physically feasible)

7.

**Signs:** Subsection C of 19.15.17.11 NMAC

- 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- Signed in compliance with 19.15.16.8 NMAC

8.

**Variations and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

**Please check a box if one or more of the following is requested, if not leave blank:**

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

**Instructions:** The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

- NM Office of the State Engineer - iWATERS database search;  USGS;  Data obtained from nearby wells

- Yes  No
- NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes  No
- NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

- Yes  No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

- Yes  No

Within an unstable area. **(Does not apply to below grade tanks)**

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

- Yes  No

Within a 100-year floodplain. **(Does not apply to below grade tanks)**

- FEMA map

- Yes  No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

- Yes  No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes  No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

- Yes  No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

- Yes  No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes  No

Within 100 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

**Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  
 - Topographic map; Visual inspection (certification) of the proposed site  Yes  No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Yes  No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Yes  No

Within 300 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

**Permanent Pit or Multi-Well Fluid Management Pit**

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  
 - Topographic map; Visual inspection (certification) of the proposed site  Yes  No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  
 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Yes  No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  
 - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site  Yes  No

Within 500 feet of a wetland.  
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No

10.  
**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11.  
**Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- A List of wells with approved application for permit to drill associated with the pit.
- Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Multi-well Fluid Management Pit  
 Alternative
- Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  On-site Trench Burial  
 Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

- |   |   |
|---|---|
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance   |   |

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

16. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17. **Operator Application Certification:**

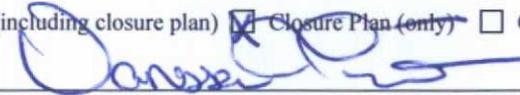
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

18. **OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature:  Approval Date: 9/20/2016

Title: Environmental Specialist OCD Permit Number: \_\_\_\_\_

19. **Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: July 8, 2016

20. **Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

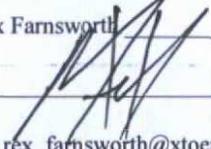
- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Rex Farnsworth \_\_\_\_\_ Title: EHS Technician \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: 7-12-2016 \_\_\_\_\_

e-mail address: rex\_farnsworth@xtoenergy.com \_\_\_\_\_ Telephone: (505) 333-3100 \_\_\_\_\_

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED  
2009 JAN 12 PM 1:44

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

**Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application**

- Type of action:  Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
Existing BGT  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Modification to an existing permit  
 Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

*Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request*

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1.  
Operator: XTO Energy, Inc. OGRID #: 5380  
Address: #382 County Road 3100, Aztec, NM 87410  
Facility or well name: Bolack C LS # 16 A  
API Number: 30-045-26662 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr I Section 33 Township 27N Range 08W County: San Juan  
Center of Proposed Design: Latitude 36.526330 Longitude 107.681190 NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 Pit: Subsection F or G of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  
 Lined  Unlined Liner type: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
 Closed-loop System: Subsection H of 19.15.17.11 NMAC  
Type of Operation:  P&A  Drilling a new well  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  
 Drying Pad  Above Ground Steel Tanks  Haul-off Bins  Other \_\_\_\_\_  
 Lined  Unlined Liner type: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_

4.  
 Below-grade tank: Subsection I of 19.15.17.11 NMAC  
Volume: 120 bbl Type of fluid: Produced Water  
Tank Construction material: Steel  
 Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
 Visible sidewalls and liner  Visible sidewalls only  Other Visible sidewalls, vaulted, automatic high-level shut off, no liner  
Liner type: Thickness \_\_\_\_\_ mil  HDPE  PVC  Other \_\_\_\_\_

5.  
 Alternative Method:  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6. **Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

7. **Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

Screen  Netting  Other Expanded metal or solid vaulted top

Monthly inspections (If netting or screening is not physically feasible)

8. **Signs:** Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

9. **Administrative Approvals and Exceptions:**  
 Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  
 Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. **Siting Criteria (regarding permitting):** 19.15.17.10 NMAC  
*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.*

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

11.

**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  
 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_
- Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Climatological Factors Assessment  
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Quality Control/Quality Assurance Construction and Installation Plan  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
 Emergency Response Plan  
 Oil Field Waste Stream Characterization  
 Monitoring and Inspection Plan  
 Erosion Control Plan  
 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

**Proposed Closure:** 19.15.17.13 NMAC*Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.*

- Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Closed-loop System  
 Alternative
- Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  On-site Trench Burial  
 Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

*Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

Yes (If yes, please provide the information below)  No

*Required for impacted areas which will not be used for future service and operations:*

Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

**Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

*Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.*

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

18.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kim Champlin Title: Environmental Representative  
Signature: Kim Champlin Date: 01/02/2009  
e-mail address: kim\_champlin@stoenenergy.com Telephone: (505) 333-3100

20.

**OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature: [Signature] Approval Date: 01/28/16  
Title: Engineer OCD Permit Number: \_\_\_\_\_

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: \_\_\_\_\_

22.

**Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)  
 If different from approved plan, please explain.

23.

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?

Yes (If yes, please demonstrate compliance to the items below)  No

Required for impacted areas which will not be used for future service and operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

24.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

25.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: XTO Energy, Inc.	Contact: Rex Farnsworth
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100
Facility Name: Bolack C "LS" 16A	Facility Type: Blanco-Mesaverde

Surface Owner: Federal	Mineral Owner	API No. 30-045-26662
------------------------	---------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	33	27N	8W	1565	FSL	1025	FEL	San Juan

Latitude: 36.3165056 Longitude: -107.4094278

**NATURE OF RELEASE**

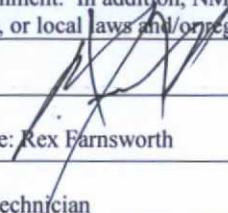
Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: BGT	Date and Hour of Occurrence Unknown	Date and Hour of Discovery: 2/15/2016
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*The below grade tank was removed at the Bolack C "LS" 16A well site due to the plugging and abandoning of the location. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 8015 (C6-C40), Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for Benzene, total BTEX and the total chlorides, but above the 'pit rule' standards for TPH, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 0 due to distance to surface water greater than 1000 feet, distance greater than 1000 feet to water well, and depth to ground water greater than a 100 feet. This set the closure standard to 5,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.\* The below grade tank closure sample was analyzed for TPH via USEPA Method 8015 (C6-C40), returning results of 120.59 ppm TPH confirming that a release has occurred.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Rex Farnsworth	Approved by Environmental Specialist:	
Title: EHS Technician	Approval Date:	Expiration Date:
E-mail Address: rex_farnsworth@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-12-2016 Phone: 505-333-3100		

\* Attach Additional Sheets If Necessary

**XTO Energy Inc.  
San Juan Basin  
Below Grade Tank  
Closure Report**

**Lease Name: Bolack C "LS" #16A**

**API No.: 30-045-26662**

**Description: Unit I, Section 33, Township 27N, Range 8W, San Juan County**

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

**General Plan**

1. XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.  
**Closure Date is July 8, 2016.**
2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.  
**Closure Date is July 8, 2016.**
3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.  
**Required C-144 Form is attached to this document.**
4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
  - Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
    - Soil contaminated by exempt petroleum hydrocarbons
    - Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes
  - Basin Disposal Permit No. NM01-005
    - Produced water**All liquids and sludge were removed from the tank prior to closure activities.**
5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.  
**XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.**

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

**The below grade tank has been removed due to the Plugging and Abandoning of this site.**

7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

**A composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)( 1 )(b). (Sample results attached).**

Components	Test Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	10	<0.00306 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	0.0616 mg/kg
TPH	EPA 8015	100	120.59 mg/kg
Chloride		250	95.4 mg/kg

8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

**Due to the returning results of 120.59 ppm TPH a release has been confirmed for this location. A C-141 Release Notification form will be sent outlining any remediation activities taken regarding this release.**

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

**The pit cellar excavation was backfilled using compacted, non-waste containing earthen material.**

10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.

The notification will include the following:

- i. Operator's name
- ii. Well Name and API Number
- iii. Location by Unit Letter, Section, Township, and Range

**Notification was provided to Mr. Cory Smith with the Aztec office of the OCD via email on January 29, 2016; see attached email printout.**

The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

**The surface owner was notified on January 29, 2016; Email has been approved as a means of surface owner notification to the BLM by Brandon Powell, NMOCD Aztec Office.**

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.  
**The location will be recontoured to match the above specifications after the well has been Plugged and Abandoned.**
12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.  
**The site has been backfilled to match these specifications.**
13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.  
**The location will be reclaimed pursuant to BLM specifications**
14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - i. Proof of closure notice to division and surface owner; **attached**
  - ii. Details on capping and covering, where applicable; **per OCD Specifications**
  - iii. Inspection reports; **attached**
  - iv. Confirmation sampling analytical results; **attached**
  - v. Disposal facility name(s) and permit number(s); **see above**
  - vi. Soil backfilling and cover installation; **per OCD Specifications**
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **per BLM specifications**
  - viii. Photo documentation of the site reclamation. **attached**
15. This closure report is being submitted after the 60 day deadline required by the 'Pit Rule' due to a delay of final reclamation of this well site.

February 15, 2016

## XTO Energy - San Juan Division

Sample Delivery Group: L816027  
Samples Received: 02/05/2016  
Project Number: 30-045-26662  
Description: BGT Closure  
Site: BOLACK CLS #16A  
Report To: Rex Farnsworth  
382 County Road 3100  
Aztec, NM 87410

Entire Report Reviewed By:



Jason Romer  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

# TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



<sup>1</sup> Cp: Cover Page	1	<sup>1</sup> Cp
<sup>2</sup> Tc: Table of Contents	2	<sup>2</sup> Tc
<sup>3</sup> Ss: Sample Summary	3	<sup>3</sup> Ss
<sup>4</sup> Cn: Case Narrative	4	<sup>4</sup> Cn
<sup>5</sup> Sr: Sample Results	5	<sup>5</sup> Sr
FARRF-020316-325 BGT COMP L816027-01	5	
<sup>6</sup> Qc: Quality Control Summary	6	<sup>6</sup> Qc
Total Solids by Method 2540 G-2011	6	
Wet Chemistry by Method 9056A	7	
Volatile Organic Compounds (GC) by Method 8015/8021	8	
Semi-Volatile Organic Compounds (GC) by Method 8015	10	
<sup>7</sup> Gl: Glossary of Terms	11	<sup>7</sup> Gl
<sup>8</sup> Al: Accreditations & Locations	12	<sup>8</sup> Al
<sup>9</sup> Sc: Chain of Custody	13	<sup>9</sup> Sc

# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



FARRF-020316-325 BGT COMP L816027-01 Solid

Collected by  
Rex Farnsworth

Collected date/time  
02/03/16 17:25

Received date/time  
02/05/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG847814	1	02/09/16 00:25	02/09/16 15:38	TRF
Total Solids by Method 2540 G-2011	WG847829	1	02/08/16 15:50	02/08/16 15:57	MEL
Volatile Organic Compounds (GC) by Method 8015/8021	WG847688	5	02/10/16 00:00	02/10/16 16:54	BMB
Wet Chemistry by Method 9056A	WG847875	1	02/09/16 14:05	02/09/16 23:25	DJD

1 Cp

2 Tc

Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer  
Technical Service Representative

1 Cp

2 Tc

3 Ss

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/03/16 17:25

L816027

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	02/08/2016 15:57	WG847829

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	95.4		12.2	1	02/09/2016 23:25	WG847875

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00306	5	02/10/2016 16:54	WG847688
Toluene	ND		0.0306	5	02/10/2016 16:54	WG847688
Ethylbenzene	ND		0.00306	5	02/10/2016 16:54	WG847688
Total Xylene	0.0616		0.00918	5	02/10/2016 16:54	WG847688
TPH (GC/FID) Low Fraction	8.89		0.612	5	02/10/2016 16:54	WG847688
(S) o,a,a-Trifluorotoluene(FID)	95.3		59.0-128		02/10/2016 16:54	WG847688
(S) o,a,a-Trifluorotoluene(PID)	101		54.0-144		02/10/2016 16:54	WG847688

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	84.4		4.90	1	02/09/2016 15:38	WG847814
C28-C40 Oil Range	27.3		4.90	1	02/09/2016 15:38	WG847814
(S) o-Terphenyl	76.4		50.0-150		02/09/2016 15:38	WG847814



Total Solids by Method 2540 G-2011

L816027-01

Method Blank (MB)

(MB) 02/08/16 15:57

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.00100		

1 Cp

2 Tc

3 Ss

L816033-01 Original Sample (OS) • Duplicate (DUP)

(OS) 02/08/16 15:57 • (DUP) 02/08/16 15:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	88.0	88.0	1	0.0412		5

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) 02/08/16 15:57

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) 02/09/16 16:06

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Chloride	ND		10.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/09/16 16:29 • (LCSD) 02/09/16 16:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	198	198	99	99	80-120			0	15

L815742-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 00:57 • (MS) 02/10/16 01:19 • (MSD) 02/10/16 01:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	8.55	523	522	103	103	1	80-120			0	15

- Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 9 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) 02/10/16 12:45

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Benzene	ND		0.000500
Toluene	ND		0.00500
Ethylbenzene	ND		0.000500
Total Xylene	ND		0.00150
TPH (GC/FID) Low Fraction	ND		0.100
(S) a,a,a-Trifluorotoluene(FID)	97.7		59.0-128
(S) a,a,a-Trifluorotoluene(PID)	103		54.0-144

Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/10/16 10:55 • (LCSD) 02/10/16 11:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0537	0.0484	107	96.8	70.0-130			10.4	20
Toluene	0.0500	0.0534	0.0481	107	96.1	70.0-130			10.6	20
Ethylbenzene	0.0500	0.0538	0.0494	108	98.8	70.0-130			8.53	20
Total Xylene	0.150	0.160	0.148	107	98.4	70.0-130			8.24	20
(S) a,a,a-Trifluorotoluene(FID)				94.7	96.6	59.0-128				
(S) a,a,a-Trifluorotoluene(PID)				99.7	101	54.0-144				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/10/16 11:39 • (LCSD) 02/10/16 12:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.92	5.85	108	106	63.5-137			1.13	20
(S) a,a,a-Trifluorotoluene(FID)				104	104	59.0-128				
(S) a,a,a-Trifluorotoluene(PID)				111	111	54.0-144				

L816030-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 14:41 • (MS) 02/10/16 15:03 • (MSD) 02/10/16 15:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0728	30.8	31.4	112	114	5	28.5-138			1.86	23.6



L816030-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 14:41 • (MS) 02/10/16 15:03 • (MSD) 02/10/16 15:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene(FID)					104	105		59.0-128				
(S) a,a,a-Trifluorotoluene(PID)					111	112		54.0-144				

L816030-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 14:41 • (MS) 02/10/16 15:48 • (MSD) 02/10/16 16:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.000277	0.251	0.245	100	98.0	5	49.7-127			2.23	23.5
Toluene	0.0500	0.000997	0.247	0.236	98.4	94.2	5	49.8-132			4.34	23.5
Ethylbenzene	0.0500	0.000463	0.244	0.238	97.4	94.9	5	40.8-141			2.53	23.8
Total Xylene	0.150	0.00215	0.733	0.714	97.4	94.9	5	41.2-140			2.67	23.7
(S) a,a,a-Trifluorotoluene(FID)					96.9	96.9		59.0-128				
(S) a,a,a-Trifluorotoluene(PID)					101	102		54.0-144				

Cp

2 Tc

3 Ss

4 Cn

5 Sr

Qc

7 Gl

8 Al

9 Sc



Semi-Volatile Organic Compounds (GC) by Method 8015

L816027-01

Method Blank (MB)

(MB) 02/09/16 10:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
C10-C28 Diesel Range	ND		4.00
C28-C40 Oil Range	ND		4.00
(S) o-Terphenyl	92.0		50.0-150

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/09/16 10:32 • (LCSD) 02/09/16 10:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	48.2	51.0	80.4	85.0	50.0-100			5.58	20
(S) o-Terphenyl				104	104	50.0-150				

- Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

# GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

## Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

## Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA	100789
A2LA - ISO 17025 <sup>3</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>na</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

AI

<sup>9</sup> Sc

		Quote Number		Page <u>1</u> of <u>1</u>		Analysis/Container				Lab Information				
		XTO Contact <u>REX FARNSWORTH</u>		XTO Contact Phone # <u>(505) 787-0643</u>		<u>BTEX (8021)</u> <u>(8015) DRO, GEO, ORO</u> <u>CLORIDES</u>				Office Abbreviations Farmington = FAR Durango = DUR Bakken = BAK Raton = RAT Piceance = PC Roosevelt = RSV La Barge = LB Orangeville = OV <b>E180</b>				
		Email Results to: <u>JAMES, KURT, LOGAN, REX</u>												
Well Site/Location <u>BOLACK C L S 16A</u>		API Number <u>30-045-2666Z</u>		Saturday Delivery (Y/N) <u>(N)</u>		Turnaround <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Next Day <input type="checkbox"/> Two Day <input type="checkbox"/> Three Day <input type="checkbox"/> Same Day Date Needed _____				Sample Number <u>L816027-01</u>				
Collected By <u>REX FARNSWORTH</u>		Samples on Ice (Y/N)		Company <u>XTO Energy</u>										
Signature <u>[Signature]</u>		Test Reason <u>PIA</u> <u>BGT CLOSURE</u>		Gray Areas for Lab Use Only!										
Sample ID		Sample Name		Media								Date		Time
<u>FARPF-020316-SZS</u>		<u>BGT Comp</u>		<u>S</u>		<u>2/5/16</u>		<u>3:25</u>		<u>ON ICE</u>		<u>1 4oz</u>		
Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT														
Relinquished By: (Signature) <u>[Signature]</u>				Date: <u>2-5-16</u>		Time: <u>4:00</u>		Received By: (Signature) <u>[Signature]</u>				Number of Bottles <u>1-902</u>		Sample Condition <u>(OK)</u>
Relinquished By: (Signature)				Date:		Time:		<u>6027 6739 3840</u> Received for Lab by: (Signature) <u>[Signature]</u>				Temperature: <u>3.2</u>		Other Information
Relinquished By: (Signature)				Date:		Time:		Date: <u>2/5/16</u>		Time: <u>0900</u>				
Comments														
<u>SW7</u>														

\* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

## Farnsworth, Rex

---

**From:** Farnsworth, Rex  
**Sent:** Monday, February 01, 2016 12:22 PM  
**To:** Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Katherina Diemer (kdiemer@blm.gov)  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hixon, Logan (Logan\_Hixon@xtoenergy.com); Hoekstra, Kurt (Kurt\_Hoekstra@xtoenergy.com); Clement, Jeff (Jeff\_Clement@xtoenergy.com); Trujillo, Marcos (Marcos\_Trujillo@xtoenergy.com); Baxstrom, Scott (Scott\_Baxstrom@xtoenergy.com); Beaty, Brent (Brent\_Beaty@xtoenergy.com); McCollum, Luke  
**Subject:** RE: 2016-1-29, 72 Hour BGT Closure Notification, 2016/2/1 Bolack C "LS" 16 A (30-045-26662)

Good Morning,

We have delayed the closure activities for the site below due to weather, we have tentatively rescheduled events for Wednesday February 3, 2016 at 200 MST.

If you have any questions please let me know!

## Rex Farnsworth

### XTO Energy Inc.

San Juan District

Western Division

382 Road 3100

Aztec, NM 87410

Office : (505) 333-3100

Direct : (505) 333-3117

Cell : (505) 787-0643

[Rex\\_Farnsworth@xtoenergy.com](mailto:Rex_Farnsworth@xtoenergy.com)

An ExxonMobil Subsidiary

---

**From:** Farnsworth, Rex  
**Sent:** Friday, January 29, 2016 7:51 AM  
**To:** Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Katherina Diemer (kdiemer@blm.gov)  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hixon, Logan (Logan\_Hixon@xtoenergy.com); Hoekstra, Kurt (Kurt\_Hoekstra@xtoenergy.com); Clement, Jeff (Jeff\_Clement@xtoenergy.com); Trujillo, Marcos (Marcos\_Trujillo@xtoenergy.com); Baxstrom, Scott (Scott\_Baxstrom@xtoenergy.com); Beaty, Brent (Brent\_Beaty@xtoenergy.com); McCollum, Luke  
**Subject:** 2016-1-29, 72 Hour BGT Closure Notification, 2016/2/1 Bolack C "LS" 16 A (30-045-26662)

Mr. Smith & Mrs. Diemer,

Please accept this email as the required 72 hour notification for the BGT closure activities at the following site:

**-Bolack C "LS" 16A (30-045-26662) located in Section 33(I), Township 27N, Range 8W, San Juan County, New Mexico**

This BGT is being closed due to the plugging and abandoning of this well site.

The closure plan was approved on January 28,2016.

Work is tentatively scheduled for Monday, February 1, 2016 at approximately 200 MST.

If there are any unforeseen delays in the closure of this BGT and it will not be closed within a week's time (February 8, 2015), a follow up email notification will be made for the change,

## **Rex Farnsworth**

### **XTO Energy Inc.**

**San Juan District**

**Western Division**

**382 Road 3100**

**Aztec, NM 87410**

Office : (505) 333-3100

Direct : (505) 333-3117

Cell : (505) 787-0643

[Rex\\_Farnsworth@xtoenergy.com](mailto:Rex_Farnsworth@xtoenergy.com)

An **ExxonMobil** Subsidiary

Well Below Tank Inspection Report

Type	Route	Stop										
Type Value B	RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township			
Below Grade Pit Forms (T. Bolack c ls 16a	Blackburn,	Unassigne	BOLACK C LS 16A (PA)	3E+09	33	8W	27N					
Inspector	h	Inspection Dat	Inspection Visible	Line	VisibleTani	Collection	Visible Lay	Visible Lea	Freeboard	PitLocation	PitType	Notes
PETER SCH		7/22/2008	14:42	No	No	Yes	Yes	No	5			PRODUCTION PIT
MICHAEL C		8/22/2008	14:30	No	No	Yes	Yes	No	5			PRODUCTION PIT
J		9/14/2008	10:20	No	No	Yes	Yes	No	5			PRODUCTION PIT
SHAWN EF		10/17/2008	14:27	No	No	Yes	Yes	No	1	Well Water Below Gro		PRODUCTION PIT
SHAWN EF		11/21/2008	13:50	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
SE		12/8/2008	14:45	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
SE		1/11/2009	12:05	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
ES		2/23/2009	10:30	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
ES		3/25/2009	12:45	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
ES		4/28/2009	2:10	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
ES		5/20/2009	2:00	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
ES		6/23/2009	12:50	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
VM		7/23/2009	1:45	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
VM		8/18/2009	12:16	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
ES		3/27/2010	12:00	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
ES		4/15/2010	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
ES		5/18/2010	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
ES		6/8/2010	12:00	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
ds		7/15/2010	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		8/11/2010	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		9/9/2010	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		10/12/2010	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		11/30/2010	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		12/19/2010	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		1/13/2011	12:00	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
es		2/8/2011	12:00	No	No	Yes	Yes	No	2	Well Water Below Gro		PRODUCTION PIT
es		3/15/2011	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		4/27/2011	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		5/6/2011	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
es		6/1/2011	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		7/14/2011	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		8/5/2011	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		9/12/2011	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		10/4/2011	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		11/2/2011	12:00	No	No	Yes	Yes	No	3	Well Water Below Gro		PRODUCTION PIT
es		12/6/2011	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		1/5/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		2/8/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		3/9/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		4/6/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		5/2/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		6/7/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		7/2/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		8/1/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
es		9/3/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
bg		10/23/2012	12:00	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
bg		2/28/2013	1:45	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
bg		3/21/2013	12:45	No	No	Yes	Yes	No	5	Well Water Below Gro		PRODUCTION PIT
bg		4/29/2013	9:15	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		6/3/2013	2:15	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		7/31/2013	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		8/29/2013	9:20	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		10/2/2013	11:15	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		11/4/2013	11:25	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		1/2/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		2/6/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		3/29/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		4/2/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		5/3/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		6/2/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		7/2/2014	11:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		8/11/2014	11:10	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		9/4/2014	11:10	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		10/6/2014	10:10	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		11/1/2014	11:10	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		12/1/2014	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		1/2/2015	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		2/2/2015	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		3/2/2015	11:45	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		4/6/2015	11:20	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		5/4/2015	10:45	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		6/1/2015	9:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		7/1/2015	12:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		8/3/2015	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		9/6/2015	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		10/5/2015	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		11/1/2015	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		12/11/2015	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		1/1/2016	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT
bg		2/2/2016	10:00	No	No	Yes	Yes	No	4	Well Water Below Gro		PRODUCTION PIT

**XTO Energy Inc.  
San Juan Basin  
Below Grade Tank  
Variance Page**

In accordance with Rule 19.15.17.15 NMAC, the following outlines all variances that are being requested for below grade tanks at XTO facilities. All variances requested provide equal or better protection of fresh water, public health and the environment.

**Fencing**

XTO requests a variance on rule 19.15.17.11.D(3) NMAC which requires fencing around below grade tanks to have at least four (4) strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level. XTO instead requests to utilize hogwire fencing at least four (4) feet high with a top rail for fencing around below grade tanks. This will provide equal protection for livestock from the below grade tank.

**Closure Requirements**

XTO requests a variance on rule 19.15.17.13.C(3)(a) NMAC which requires operators to analyze closure samples for the constituents listed in Table I of 19.15.17.13 NMAC. XTO instead requests to replace the USEPA analytical method 300.0 for total chloride to USEPA Method 9056. The SW846 9056 method Determination of Inorganic Anions By Ion Chromatography, from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, which also contains methods for the analysis of groundwater, is customarily used to comply with RCRA regulations. EPA Method 300.0 Determination of Inorganic Anions by Ion Chromatography is taken from *Methods for Chemical Analysis of Waters and Wastes*, and includes test procedures that are approved for monitoring under the Safe Drinking Water Act (SDWA) and the National Pollutant Discharge Elimination System (NPDES). The Scope of Application for each method is the same, and both methods utilize ion chromatograph instrumentation. Following either procedure, steps for instrument calibration and data calculation are equivalent. Sample preservation, holding time, handling and storage is identical between the two methods. It is expected that data produced from either method should be consistent.

XTO Energy is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C<sub>8</sub> through C<sub>40</sub>. (*Reference: American Petroleum Institute*). This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C<sub>6</sub>-C<sub>10</sub> for GRO, C<sub>10</sub>-C<sub>28</sub> for DRO, and C<sub>28</sub>-C<sub>36</sub> for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C<sub>6</sub>, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C<sub>36</sub>-C<sub>40</sub>, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment.

XTO requests a variance on rule 19.15.17.13.E(2) requiring that operators notify the appropriate division office verbally AND in writing at least 72 hours prior to any closure operation. XTO instead requests that the verbal notification be waived, as suggested by the local division office. XTO will provide written notification to the division office in the form of an email at least 72 hours prior to beginning closure activities.

XTO Energy Inc.  
Bolack C "LS" #16A (30-045-26662)  
Section 33 (I), Township 27N, Range 8W  
Closure Date: July 8, 2016

Photo 1: Bolack C LS #16A



Photo 2: Bolack C LS #16A



XTO Energy Inc.  
Bolack C "LS" #16A (30-045-26662)  
Section 33 (I), Township 27N, Range 8W  
Closure Date: July 8, 2016



Photo #3: Bolack C LS #16A



Photo #4: Bolack C LS #16A