

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

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.

2008 DEC 12 PM 4 12

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

10698  
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: Bandy #1  
API Number: 30-045-09820 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr N Section 03 Township 30N Range 11W County: San Juan  
Center of Proposed Design: Latitude 36.83708 Longitude 107.98043 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 \_\_\_\_\_

RCVD DEC 6 '12  
OIL CONS. DIV.  
DIST. 3

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 checked="" type="checkbox"/> Yes <input 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 checked="" 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. ( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> ) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input checked="" type="checkbox"/> Yes <input 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. ( <i>Applies to permanent pits</i> ) - 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 checked="" 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 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

☐ Yes ☐ No

☐ 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

☐ Yes ☐ No

☐ 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

☐ Yes ☐ No

☐ 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

☐ 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 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

☐ Yes ☐ 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

☐ 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

Within the area overlying a subsurface mine.

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

☐ Yes ☐ No

Within an unstable area.

- 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.

- FEMA map

☐ Yes ☐ 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: 12-08-08

e-mail address: kim\_champlin@xtoenergy.com Telephone: (505) 333-3100

20.

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

OCD Representative Signature: [Signature]

Title: Environmental Engineer

OCD Permit Number: 12/12/2012 8/27/12

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: 9-5-12

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 indentify 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): KURT HOEKSTRA Title: SR. ENVIRONMENTAL TECHNICIAN

Signature: Kurt Hoekstra Date: 12-3-12

e-mail address: Kurt-Hoekstra@xtoenergy.com Telephone: 505-333-3100

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: Kurt Hoekstra	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3202	
Facility Name: Bandy # 1 (30-045-09820)	Facility Type: Gas Well (-Pictured Cliffs)	
Surface Owner: Private	Mineral Owner:	Lease No. Fee

#### LOCATION OF RELEASE

Unit Letter N	Section 3	Township 30N	Range 11W	Feet from the 1196	North/South Line FSL	Feet from the 1992	East/West Line FWL	County San Juan
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Latitude: 36.83708 Longitude: -107.98043

#### NATURE OF RELEASE

Type of Release: N/A	Volume of Release: N/A	Volume Recovered: N/A
Source of Release: N/A	Date and Hour of Occurrence: N/A	Date and Hour of Discovery: N/A
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 Bandy # 1 well site due to plugging and abandon of the well. The BGT cellar beneath the BGT was sampled for TPH via USEPA Method 8015 and 418.1, for BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'pit rule' standards of 100 ppm TPH, 0.2 ppm benzene, 10 ppm total BTEX and 250 ppm chlorides, confirming that a release has not occurred at this location.		
Describe Area Affected and Cleanup Action Taken.*No release has been confirmed for this location, and no further action is required.		
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: Kurt Hoekstra		Approved by District Supervisor:
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12-3-2012	Phone: 505-333-3202	

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

**Lease Name: Bandy # 1**

**API No.: 30-045-09820**

**Description: Unit N, Section 3, Township 30N, Range 11W, 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 September 5, 2012**
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 September 5, 2012**
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.

**All Equipment will be removed due to the plugging and abandoning of Bandy # 1 well.**

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	0.2	< 0.0027 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.0406 mg/kg
TPH	EPA SW-846 418.1	100	84.9 mg/kg
Chlorides	EPA 300.1	250 or background	75 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.  
**No release has been confirmed at this site.**
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 was backfilled using compacted, non-waste containing earthen material, with a division prescribed soil cover.**
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. Brandon Powell with the Aztec office of the OCD via email on August 30, 2012; 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 August 31, 2012; see attached letter and return receipt.**

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 site will be plugged and abandoned when gas flow from braden head issue is resolved. The site will be reclaimed pursuant to surface owner specifications upon the plugging and abandoning of this well location.**

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 site will be reclaimed pursuant to surface owner specifications upon the plugging and abandoning of this well location.**

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 MOU**
- 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 unforeseen delay on final reclamation of this well site.

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

AZTEC NM 87410

Postage	\$ 0.45	0410
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 5.75	

Sent To: **Smith Family, LLC**  
 Street, Apt. No., or PO Box No. **3 Road 2978**  
 City, State, ZIP+4 **Aztec, nm 87410** **KH**

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><b>X</b> <i>Pat Smith</i></p>	
<p>1. Article Addressed to:</p> <p><b>Smith Family, LLC</b>  <b>3 Road 2978</b>  <b>Aztec, nm 87410</b></p>		<p>B. Received by (Printed Name) <b>P Smith</b> C. Date of Delivery <b>9/3/12</b></p>	
<p>2. Article Number (Transfer from service label) <b>7011 1150 0000 5124 8471</b></p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

Kurt Hoekstra/FAR/CTOC  
08/30/2012 03:38 PM

To Brandon Powell  
cc  
bcc  
Subject Bandy # 1 BGT Closure Notification

Brandon,

Please accept this email as the required notification for BGT closure activities at the Bandy # 1 well site (API # 30-045-09820) located in Unit N, Section 3, Township 30N, Range 11W, San Juan County, New Mexico. This below grade tank is being closed due to the P & A of this well.

Thank you for your time in regards to this matter.

Kurt Hoekstra  
Sr. Environmental Technician  
XTO Energy  
505-333-3202 Office  
505-486-9543 Cell  
Kurt\_Hoekstra@xtoenergy.com

August 31, 2012

Smith Family LLC,  
3 Road 2978  
Aztec, New Mexico 87410

Re: Bandy # 1 API # 30-045-09820  
Unit N, Section 3, Township 30N, Range 11W, San Juan County, New Mexico

Gentlemen;

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify surface owners of the closure of a below grade tank pit. XTO Energy, Inc. (XTO) is hereby providing written documentation of our proposal to close the below grade tank pit associated with the above mentioned well site by excavation and removal.

Should you have questions or require additional information, please feel free to contact me at your convenience at (505) 333-3100. Thank you for your time in regards to this matter.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Kurt Hoekstra", written in a cursive style.

Kurt Hoekstra  
Sr. Environmental Technician  
XTO Energy, Inc.  
Western Division

Kurt Hoekstra/FAR/CTOC  
08/27/2012 10:15 AM

To brad.a.jones@state.nm.us  
cc  
bcc  
Subject Request for closure plan

Brad,

Please accept this email as a request for approval of the closure plan only for the BGT at the Bandy # 1 location (API # 30-045-09820) located in Unit N, Section 3, Township 30N, Range 11W, San Juan County, New Mexico. Our records show that this closure plan was submitted to your office on 12-12-2008. This



**Paul M. Lehrman**  
*Sr. Land Surface Supervisor*

San Juan Division  
382 Road 3100  
Aztec, NM 87410  
(505) 333-3100  
Direct: (505) 333-3172  
Fax: (505) 333-3673  
Cell: (505) 486-0066  
paul\_lehrman@xtoenergy.com  
An **ExxonMobil** Subsidiary

DELIVERY CONFIRMATION  
Article # 0310 2010 0001 8194 9582

July 30, 2012

Smith Family LLC  
3 Road 2978  
Aztec, New Mexico 87410

RE: XTO Well: Bandy #1  
TOWNSHIP: 30 North, Range 11 West, NMPM  
SECTION: 3  
SAN JUAN COUNTY, NEW MEXICO

Gentlemen;

Please be advised that XTO will be plugging and abandoning the Bandy #1 well on or about August 11, 2012.

We anticipate rig work to take approximately 3-5 days.

Please call me if you have any questions. I can be reached at (505)-333-3172. I am enclosing my business card.

Sincerely,

Paul Lehrman  
Sr. Land Surface Coordinator

INFORMATIONAL CONTACTS:  
Main Office: 333-3100  
Marsha Yokie: 333-3201

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F242

Main of Custody  
Age \_\_\_ of \_\_\_12063 Lebanon Road  
Mt. Juliet, TN 37122Phone: (800) 767-5859  
Phone: (615) 758-5858  
Fax: (615) 758-5859Company Name/Address:  
**XTO Energy - San Juan Division**382 County Road 3100  
Aztec, NM 87410

Billing Information:

XTO Energy Inc  
Accounts Payable  
382 CR 3100

Aztec, NM 87410

Analysis/Container/Preservative

Report to:

Email to: JAMES McDANIEL  
KURT HOEKSTEN

Project

Description: BANDY #1

City/State  
Collected

Phone: (505) 333-3100

Client Project #:

ESC Key:

FAX:

Collected by: (print) KURT

Site/Facility ID#:

P.O.#:

Collected by (signature): Kurt Hoeksten

**Rush?** (Lab MUST Be Notified)

\_\_\_ Same Day..... 200%

\_\_\_ Next Day..... 100%

\_\_\_ Two Day..... 50%

\_\_\_ Three Day..... 25%

Date Results Needed:

Email? \_\_\_ No \_\_\_ Yes

FAX? \_\_\_ No \_\_\_ Yes

No.

of

Cntrs

CoCode XTORNM (lab use only)

Template/Prelogin

Shipped Via

Remarks/Contaminant

Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time
BGT CELLAR	Comp	SS	0-6"	8-23-12	8:45

1

X

X

X

8015  
8021  
CHLORIDE

6591830-1

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

496345929531

Relinquished by: (Signature) Kurt Hoeksten	Date: 8-23	Time: 10:45	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: JF (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 6.1	Bottles Received: 1402
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Mattie M. M. M.	Date: 8/24/12	Time: 09:00

CoC Seals Intact \_\_\_ Y \_\_\_ N \_\_\_

pH Checked: NCF



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James McDaniel  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

### Report Summary

Wednesday August 29, 2012

Report Number: L591830

Samples Received: 08/24/12

Client Project:

Description: Bandy 1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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# REPORT OF ANALYSIS

August 29, 2012

James McDaniel  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

Date Received : August 24, 2012  
Description : Bandy 1

Sample ID : BGT CELLAR

Collected By : Kurt  
Collection Date : 08/23/12 08:45

ESC Sample # : L591830-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	75.	11.	mg/kg	9056	08/25/12	1
Total Solids	91.9	0.100	%	2540G	08/28/12	1
Benzene	BDL	0.0027	mg/kg	8021/8015	08/25/12	5
Toluene	BDL	0.027	mg/kg	8021/8015	08/25/12	5
Ethylbenzene	BDL	0.0027	mg/kg	8021/8015	08/25/12	5
Total Xylene	BDL	0.0082	mg/kg	8021/8015	08/25/12	5
TPH (GC/FID) Low Fraction	BDL	0.54	mg/kg	GRO	08/25/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.6		% Rec.	8021/8015	08/25/12	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	08/25/12	5
TPH (GC/FID) High Fraction	5.1	4.4	mg/kg	3546/DRO	08/29/12	1
Surrogate recovery(%)						
o-Terphenyl	59.1		% Rec.	3546/DRO	08/29/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 08/29/12 17:14 Printed: 08/29/12 17:14

Summary of Remarks For Samples Printed  
08/29/12 at 17:14:43

TSR Signing Reports: 288  
R5 - Desired TAT

Sample: L591830-01 Account: XTORNM Received: 08/24/12 09:00 Due Date: 08/31/12 00:00 RPT Date: 08/29/12 17:14



XTO Energy - San Juan Division  
James McDaniel  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L591830

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August 29, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG609444	08/25/12 02:10
Ethylbenzene	< .0005	mg/kg			WG609444	08/25/12 02:10
Toluene	< .005	mg/kg			WG609444	08/25/12 02:10
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG609444	08/25/12 02:10
Total Xylene	< .0015	mg/kg			WG609444	08/25/12 02:10
a,a,a-Trifluorotoluene(FID)		% Rec.	95.36	59-128	WG609444	08/25/12 02:10
a,a,a-Trifluorotoluene(PID)		% Rec.	100.5	54-144	WG609444	08/25/12 02:10
Chloride	< 10	mg/kg			WG609473	08/25/12 14:57
Total Solids	< .1	%			WG609446	08/28/12 09:49
TPH (GC/FID) High Fraction	< 4	ppm			WG609496	08/28/12 11:25
o-Terphenyl		% Rec.	62.98	50-150	WG609496	08/28/12 11:25

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	46.0	47.0	1.72	20	L591448-01	WG609473
Chloride	mg/kg	43.0	47.0	9.35	20	L591448-03	WG609473
Total Solids	%	98.0	98.0	0.0303	5	L591796-03	WG609446

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0456	91.3	76-113	WG609444
Ethylbenzene	mg/kg	.05	0.0500	100.	78-115	WG609444
Toluene	mg/kg	.05	0.0499	99.8	76-114	WG609444
Total Xylene	mg/kg	.15	0.151	101.	81-118	WG609444
a,a,a-Trifluorotoluene(PID)				99.90	54-144	WG609444
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.37	97.6	67-135	WG609444
a,a,a-Trifluorotoluene(FID)				101.4	59-128	WG609444
Chloride	mg/kg	200	202.	101.	80-120	WG609473
Total Solids	%	50	50.0	100.	85-115	WG609446
TPH (GC/FID) High Fraction	ppm	60	45.4	75.7	50-150	WG609496
o-Terphenyl				61.28	50-150	WG609496

Analyte	Units	Laboratory Control Result	Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0497	0.0456	99.0	76-113	8.51	20	WG609444
Ethylbenzene	mg/kg	0.0548	0.0500	110.	78-115	9.30	20	WG609444
Toluene	mg/kg	0.0534	0.0499	107.	76-114	6.91	20	WG609444
Total Xylene	mg/kg	0.162	0.151	108.	81-118	6.98	20	WG609444
a,a,a-Trifluorotoluene(PID)				99.95	54-144			WG609444
TPH (GC/FID) Low Fraction	mg/kg	5.36	5.37	97.0	67-135	0.140	20	WG609444
a,a,a-Trifluorotoluene(FID)				101.4	59-128			WG609444

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division  
James McDaniel  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L591830

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August 29, 2012

Analyte	Units	Laboratory Control			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/kg	209.	202.	104.	80-120	3.41	20	WG609473
TPH (GC/FID) High Fraction	ppm	45.1	45.4	75.0	50-150	0.626	23	WG609496
o-Terphenyl				61.73	50-150			WG609496

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.243	0	.05	97.3	32-137	L591830-01	WG609444
Ethylbenzene	mg/kg	0.269	0	.05	107.	10-150	L591830-01	WG609444
Toluene	mg/kg	0.268	0	.05	107.	20-142	L591830-01	WG609444
Total Xylene	mg/kg	0.801	0	.15	107.	16-141	L591830-01	WG609444
a,a,a-Trifluorotoluene(PID)					98.71	54-144		WG609444
TPH (GC/FID) Low Fraction	mg/kg	24.1	0	5.5	87.6	55-109	L591830-01	WG609444
a,a,a-Trifluorotoluene(FID)					100.1	59-128		WG609444
Chloride	mg/kg	715.	220.	500	99.0	80-120	L591448-02	WG609473
TPH (GC/FID) High Fraction	ppm	36.9	0	60	61.4	50-150	L591910-03	WG609496
o-Terphenyl					50.28	50-150		WG609496

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/kg	0.239	0.243	95.6	32-137	1.68	39	L591830-01	WG609444
Ethylbenzene	mg/kg	0.258	0.269	103.	10-150	4.07	44	L591830-01	WG609444
Toluene	mg/kg	0.261	0.268	104.	20-142	2.77	42	L591830-01	WG609444
Total Xylene	mg/kg	0.763	0.801	102.	16-141	4.79	46	L591830-01	WG609444
a,a,a-Trifluorotoluene(PID)				99.31	54-144				WG609444
TPH (GC/FID) Low Fraction	mg/kg	23.7	24.1	86.3	55-109	1.52	20	L591830-01	WG609444
a,a,a-Trifluorotoluene(FID)				100.4	59-128				WG609444
Chloride	mg/kg	713.	715.	98.6	80-120	0.280	20	L591448-02	WG609473
TPH (GC/FID) High Fraction	ppm	35.3	36.9	58.9	50-150	4.21	40	L591910-03	WG609496
o-Terphenyl				48.47*	50-150				WG609496

Batch number / Run number / Sample number cross reference

WG609444: R2318554: L591830-01  
WG609473: R2319313: L591830-01  
WG609446: R2319517: L591830-01  
WG609496: R2322133: L591830-01

\* \* Calculations are performed prior to rounding of reported values.  
\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division  
James McDaniel  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

LS91830

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Est. 1970

August 29, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

# CHAIN OF CUSTODY RECORD

14319

Client: <b>XTO</b>			Project Name / Location: <b>BANDY #1</b>			ANALYSIS / PARAMETERS													
Email results to: <b>JAMES MCDANIEL</b> <b>KURT HOEKSTRA</b>			Sampler Name: <b>KURT</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <b>98031-0528</b>																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl <sub>2</sub>	HCl													
<b>BGT CEUAK</b>	<b>8-23</b>	<b>8:45</b>	<b>U3060</b>	<b>14oz. Jar</b>											<b>X</b>			<b>X</b>	<b>X</b>
Relinquished by: (Signature) <i>Kurt Hoekstra</i>				Date	Time	Received by: (Signature) <i>Manoj</i>				Date	Time								
				<b>8-23</b>	<b>10:00</b>					<b>8/23/12</b>	<b>10:00</b>								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			





## Report Summary

Client: XTO

Chain of Custody Number: 14319

Samples Received: 08-23-12

Job Number: 98031-0528

Sample Number(s): 63060

Project Name/Location: Bandy #1

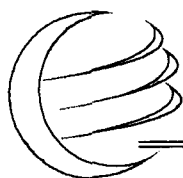
Entire Report Reviewed By:

*Denezzin*

Date:

08-31-12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



# envirotech

Analytical Laboratory

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Cellar	Date Reported:	08-31-12
Laboratory Number:	63060	Date Sampled:	08-23-12
Chain of Custody No:	14319	Date Received:	08-23-12
Sample Matrix:	Soil	Date Extracted:	08-23-12
Preservative:	Cool	Date Analyzed:	08-23-12
Condition:	Intact	Analysis Needed:	TPH-418.1

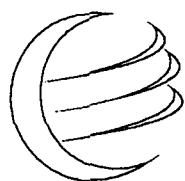
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	84.9	6.6

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Bandy #1**





# envirotech

Analytical Laboratory

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	08-31-12
Laboratory Number:	08-23-TPH.QA/QC 63060	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	08-23-12
Preservative:	N/A	Date Extracted:	08-23-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	07-11-12	08-23-12	1,660	1,720	3.6%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	6.6

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	84.9	83.6	1.5%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	84.9	2,000	1,730	83.0%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 63052, 63060 and 63071-63073



# Well Below Tank Inspection Report

Division Denver

Dates -  
06/01/2008 - 10/01/2012

Type Route Stop

Type Value B

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township
DEN NM Run 54B	BANDY 001	McDowell, Jesse	Bramwell, Chris	BANDY 01	3004509820	3	11W	30N

InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes
jrodgers	08/25/2008	08:00	No	No	No	Yes	No	2			years of serv.
jrodgers	09/23/2008	11:00	No	No	No	Yes	No	2			years of serv.
jrodgers	10/21/2008	09:40	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	11/18/2008	09:30	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	12/22/2008	09:45	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	01/19/2009	09:00	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	02/23/2009	09:30	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	03/16/2009	08:30	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	04/25/2009	09:30	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	05/28/2009	09:00	No	No	No	Yes	No	1	Well Water Pi Below G		years of serv.
jrodgers	06/25/2009	11:00	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	07/30/2009	08:35	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	08/28/2009	08:00	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	09/29/2009	10:15	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	10/20/2009	11:57	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	11/25/2009	11:34	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.
jrodgers	12/20/2009	12:25	No	No	No	Yes	No	2	Well Water Pi Below G		years of serv.

jrodgers	01/28/2010	12:55	No	No	Yes	Yes	No	2	Well Water Pi Below G 6' snow jr
jrodgers	03/09/2010	12:12	No	No	No	Yes	No	2	Well Water Pi Below G loc. dry jr
jrodgers	04/06/2010	08:08	No	No	No	Yes	No	2	Well Water Pi Below G loc. dry jr
jrodgers	05/04/2010	12:13	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	06/01/2010	11:01	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	07/15/2010	12:47	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	08/10/2010	10:09	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	09/06/2010	10:41	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	10/05/2010	11:25	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	11/01/2010	01:07	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	12/08/2010	08:46	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	01/03/2011	11:58	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	02/08/2011	10:50	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	03/08/2011	02:05	No	No	No	Yes	No	2	Well Water Pi Below G dry
jrodgers	04/27/2011	02:05	No	No	No	Yes	No	2	Well Water Pi Below G dry
FLB	05/27/2011	11:05	No	No	No	Yes	No	2	Well Water Pi Below Ground
FLB	6/22/2011	8:13	No	No	No	Yes	No	2	Well Water Pi Below Ground
Jose	10/4/2011	7:34	No	No	No	Yes	No	2	Well Water Pi Below G pit good JV
Jose	11/4/2011	3:12	No	No	No	Yes	No	2	Well Water Pi Below G pit good JV
Terry	2/1/2012	3:12	No	No	No	Yes	No	2	Well Water Pi Below G pit good JV
Terry	3/1/2012	1:12	No	No	No	Yes	No	2	Well Water Pi Below G pit good JV

XTO  
ENERGY

1-866-479-5117

LAT. 36.82708 LONG. 107.98043

API #30-045-09820

BANDY #1

1196' FSL 1992' FWL

SEC. 03 T030N R011W

LEASE NO. FEE ELEV. 5662

SAN JUAN COUNTY, NEW MEXICO

1-866-479-5117

HARD HAT & STEEL TOE SHOES  
NO SMOKING OR OPEN FLAME

