

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

Form C-144  
July 21, 2008

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: Hare Gas Com B #1E  
API Number: 30-045-23732 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr E Section 23 Township 29N Range 11W County: San Juan  
Center of Proposed Design: Latitude 36.71426 Longitude 107.96561 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 MAR 8 '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: 95 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
- Topographic map, Visual inspection (certification) of the proposed site	
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> )	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<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> )	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
- Written confirmation or verification from the municipality, Written approval obtained from the municipality	
Within 500 feet of a wetland.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
- FEMA map	

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: 01/12/2009

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] Approval Date: 3/08/2012

Title: Environmental Engineer OCD Permit Number: Compliance Officer

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: 1-16-12

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 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): KURT HOEKSTRA Title: SR. ENVIRONMENTAL TECHNICIAN

Signature: Kurt Hoekstra Date: 3-6-12

e-mail address: Kurt\_Hoekstra@xtoenergy.com Telephone: 505-333-3202

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: Hare Gas Com B # 1 E (30-045-23732)	Facility Type: Gas Well (Basin Dakota)

Surface Owner: Private	Mineral Owner:	Lease No.: Fee
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**LOCATION OF RELEASE**

Unit Letter E	Section 23	Township 29N	Range 11W	Feet from the 1500	North/South Line FNL	Feet from the 1060	East/West Line FWL	County San Juan
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Latitude: 36.71426 Longitude: -107.96561

**NATURE OF RELEASE**

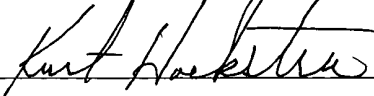
Type of Release: N/A	Volume of Release: N/A	Volume Recovered: N/A
Source of Release: N/A	Date and Hour of Occurrence: N/A	Date and Hour of Discovery: NA
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
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 moved at the Hare Gas Com B # 1 E well site due to maintenance upgrades at the facility. The BGT was closed and brought above grade. 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.

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: 3-6-2012	Phone: 505-333-3202		

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

**Lease Name: Hare Gas Com B # 1 E**

**API No.: 30-045-23732**

**Description: Unit E, Section 23, Township 29N, 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 January 16, 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 January 16, 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 remain on location for the continued production of oil and gas.**

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 five point 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	< 0.0031 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.0465 mg/kg
TPH	EPA SW-846 418.1	100	44.9 mg/kg
Chlorides	EPA 300.1	250 or background	210 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 location**

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 January 10, 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.



**An attempt was made to notify the surface owner on January 10, 2012 the letter was returned as unclaimed; 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 continue to be used for oil and gas exploration and production operations. The site will be recontoured 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 location will be reclaimed pursuant to the surface use agreement 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); **NA**
  - viii. Photo documentation of the site reclamation. **attached**

Kurt Hoekstra /FAR/CTOC

01/10/2012 09:20 AM

To brandon.powell@state.nm.us

cc

bcc James McDaniel/FAR/CTOC@CTOC

Subject Hare Gas Com B # 1E BGT Closure

Brandon,

Please accept this email as the required notification of BGT closure activities at the Hare Gas Com B # 1E well site (API # 30-045-23732) located in Unit E, Section 23, Township 29N, Range 11W, San Juan County New Mexico. This BGT is being replaced with an above ground tank. 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



CERTIFIED MAIL



7010 1870 0003 3184 0676

Hasler

FIRST-CLASS MAIL

01/10/2012

US POSTAGE

\$05.59



ZIP 87410  
011D11627126

REC'D / SAN JUAN

FEB 14 2012

Ricky D & Kelly Thompson  
5712 El Prado NW  
Albuquerque NM 87107

JAN 19 2012

1/27

U.S. Postal Service<sup>TM</sup>  
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OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Sent to  
Ricky D & Kelly Thompson  
Street, Apt. No.,  
or PO Box No. 5712 El Prado NW  
City, State ZIP+4  
Albuquerque NM 87107

PS Form 3800, August 2006

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY	
A Signature	
B Received by (Printed Name)	
C Date of Delivery	
D Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If YES, enter delivery address below	
3 Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail 4 Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No	
2 Article Number 7010 1870 0003 3184 0676	
1 Article Addressed to Ricky D & Kelly Thompson 5712 El Prado NW Albuquerque NM 87107	
PS Form 3811, February 2004	

January 10, 2012

Thompson Ricky D. and Kelly L.  
5712 El Prado NW  
Albuquerque, New Mexico 87107

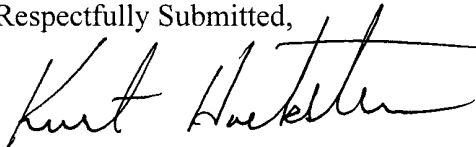
Re: Hare Gas Com B # 1E  
Section 23, Township 29N, Range 11W, San Juan County, New Mexico

Dear Mr. Thompson,

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 waste 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". The signature is fluid and cursive, with a long horizontal stroke at the end.

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

Company Name/Address <b>XTO ENERGY, INC.</b> <b>382 County Road 3100</b> <b>AZTEC, NM 87410</b>		Alternate Billing  Report to James McDaniel E-mail to james_mcdaniel@xtoenergy.com		Analysis/Container/Preservative		Chain of Custody Page ___ of ___  <b>C001</b>  Prepared by  <b>ENVIRONMENTAL SCIENCE CORP</b> 12065 Lebanon Road Mt Juliet TN 37122  Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859													
Project Description <b>HARE GAS com B* 1 E</b>		City/State Collected		<table border="1"> <tr><td>TPH 8015</td><td>BTEX 8021</td><td>Chloride</td><td>TCLP Metals</td></tr> </table>		TPH 8015	BTEX 8021	Chloride	TCLP Metals	<table border="1"> <tr><td>CoCode</td><td>(lab use only)</td></tr> <tr><td><b>XTORN</b></td><td></td></tr> <tr><td>Template/Prelogin</td><td></td></tr> <tr><td>Shipped Via: Fed Ex</td><td></td></tr> </table>		CoCode	(lab use only)	<b>XTORN</b>		Template/Prelogin		Shipped Via: Fed Ex	
TPH 8015	BTEX 8021	Chloride	TCLP Metals																
CoCode	(lab use only)																		
<b>XTORN</b>																			
Template/Prelogin																			
Shipped Via: Fed Ex																			
PHONE 505-333-3701	Client Project No	Lab Project #																	
FAX	Site/Facility ID#	P O #																	
Collected by Joshua Kirchner	Date Results Needed		No																
Collected by (signature) 	<input checked="" type="checkbox"/> <b>Rush?</b> (Lab MUST be Notified) <input checked="" type="checkbox"/> Next Day 100% <input type="checkbox"/> Two Day 50% <input type="checkbox"/> Three Day 25%	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes																	
Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>			Cntrs																
Sample ID <b>BGT</b>	Comp/Grab <b>COMP</b>	Matrix <b>LOIL</b>	Depth	Date <b>1-10-12</b>	Time <b>1130</b>	Remarks/contaminant <b>L555147-01</b>													

Matrix SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other \_\_\_\_\_ pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks "ONLY 1 COC Per Site!!" please CC results to joshua@nelsonreveg.com

Relinquisher by (Signature) 	Date <b>1-10-12</b>	Time <b>1400</b>	Received by (Signature) 	Samples returned via FedEx X UPS Other	Condition <b>JP</b> (lab use only)
Relinquisher by (Signature) 	Date	Time	Received by (Signature) 	Temp <b>34</b>	Bottles Received <b>1400</b>
Relinquisher by (Signature) 	Date	Time	Received for lab by (Signature) 	Date <b>1-11-12</b>	Time <b>0900</b>
				pH Checked	NCF



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Mt Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859

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Est 1970

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

### Report Summary

Friday January 13, 2012

Report Number: L555147

Samples Received: 01/11/12

Client Project:

Description: HARE GAS COM B # 1 E

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

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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

January 13, 2012

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

ESC Sample # L555147-01

Date Received January 11, 2012  
Description HARE GAS COM B # 1 E

Site ID .

Sample ID : BGT

Project #

Collected By : Joshua Kirchner  
Collection Date 01/10/12 11.30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Chloride	210	12.	mg/kg	9056	01/12/12	1
Total Solids	81		%	2540G	01/12/12	1
Benzene	BDL	0.0031	mg/kg	8021/8015	01/11/12	5
Toluene	BDL	0.031	mg/kg	8021/8015	01/11/12	5
Ethylbenzene	BDL	0.0031	mg/kg	8021/8015	01/11/12	5
Total Xylene	BDL	0.0093	mg/kg	8021/8015	01/11/12	5
TPH (GC/FID) Low Fraction	BDL	0.62	mg/kg	GRO	01/11/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	95.2		% Rec.	8021/8015	01/11/12	5
a,a,a-Trifluorotoluene (PID)	106.		% Rec.	8021/8015	01/11/12	5
TPH (GC/FID) High Fraction	BDL	5.0	mg/kg	3546/DRO	01/12/12	1
Surrogate recovery(%)						
o-Terphenyl	66.7		% Rec.	3546/DRO	01/12/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note

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The reported analytical results relate only to the sample submitted

Reported: 01/13/12 13:18 Printed: 01/13/12 13:18

Summary of Remarks For Samples Printed  
01/13/12 at 13:18:34

TSR Signing Reports: 288  
R4 - Rush Three Day

Sample. L555147-01 Account: XTORNM Received: 01/11/12 09 00 Due Date: 01/16/12 00.00 RPT Date: 01/13/12 13.18





**YOUR LAB OF CHOICE**

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

Aztec, NM 87410

Quality Assurance Report  
Level II

L555147

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January 13, 2012

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Benzene	< 0005	mg/kg		WG573603	01/11/12 15 15
Ethylbenzene	< 0005	mg/kg		WG573603	01/11/12 15 15
Toluene	< 005	mg/kg		WG573603	01/11/12 15 15
TPH (GC/FID) Low Fraction	< 1	mg/kg		WG573603	01/11/12 15 15
Total Xylene	< 0015	mg/kg		WG573603	01/11/12 15 15
a,a,a-Trifluorotoluene(FID)		% Rec 95 52	59-128	WG573603	01/11/12 15 15
a,a,a-Trifluorotoluene(PID)		% Rec 105 9	54-144	WG573603	01/11/12 15 15
Total Solids	< 1	%		WG573622	01/12/12 08 56
TPH (GC/FID) High Fraction	< 4	ppm		WG573657	01/12/12 11 46
o-Terphenyl		% Rec 86 66	50-150	WG573657	01/12/12 11 46
Chloride	< 10	mg/kg		WG573758	01/12/12 12 00

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	83 0	80.5	3 43	5	L555147-01	WG573622
Chloride	mg/kg	51 0	48 0	5 86	20	L555222-01	WG573758

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Benzene	mg/kg	05	0 0510	102	76-113 WG573603
Ethylbenzene	mg/kg	05	0 0536	107	78-115 WG573603
Toluene	mg/kg	05	0 0538	108	76-114 WG573603
Total Xylene	mg/kg	15	0 160	107	81-118 WG573603
a,a,a-Trifluorotoluene(PID)			105 3	54-144	WG573603
TPH (GC/FID) Low Fraction	mg/kg	5 5	6 39	116	67-135 WG573603
a,a,a-Trifluorotoluene(FID)			101 0	59-128	WG573603
Total Solids	%	50	50 0	100	85-155 WG573622
TPH (GC/FID) High Fraction	ppm	60	51 3	85 5	50-150 WG573657
o-Terphenyl				76 07	50-150 WG573657
Chloride	mg/kg	200	203	102	85-115 WG573758

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0 0515 0 0510 103	76-113	1 09	20	WG573603
Ethylbenzene	mg/kg	0 0540 0 0536 108	78-115	0 770	20	WG573603
Toluene	mg/kg	0 0536 0 0538 107	76-114	0 450	20	WG573603
Total Xylene	mg/kg	0 161 0 160 107	81-118	0 440	20	WG573603
a,a,a-Trifluorotoluene(PID)			105 7	54-144		WG573603
TPH (GC/FID) Low Fraction	mg/kg	6 59 6 39	120	67-135	3 01	WG573603
a,a,a-Trifluorotoluene(FID)			101 6	59-128		WG573603

\* Performance of this Analyte is outside of established criteria  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers '



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January 13, 2012

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	56 4	51 3	94 0		50-150	9 44	20	WG573657
o-Terphenyl				81 54		50-150			WG573657
Chloride	mg/kg	205	203	102		85-115	0 980	20	WG573758

Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref	Res					
Benzene	mg/kg	0 228	0		05	91 0	32-137	L555147-01	WG573603
Ethylbenzene	mg/kg	0 236	0		05	94 4	10-150	L555147-01	WG573603
Toluene	mg/kg	0 244	0		05	97 7	20-142	L555147-01	WG573603
Total Xylene	mg/kg	0 705	0		15	94 0	16-141	L555147-01	WG573603
a,a,a-Trifluorotoluene(FID)						104 6	54-144		WG573603
TPH (GC/FID) Low Fraction	mg/kg	27 3	0		5 5	99 4	55-109	L555147-01	WG573603
a,a,a-Trifluorotoluene(FID)						100 3	59-128		WG573603
Chloride	mg/kg	551	55 0	500	99 2		80-120	L555222-02	WG573758

Analyte	Units	MSD	Matrix Spike		Duplicate	Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
TPH (GC/FID) Low Fraction	mg/kg	27 6	27 3	100		55-109	1 04	20	L555147-01	WG573603
a,a,a-Trifluorotoluene(FID)				101 0		59-128				WG573603
Benzene	mg/kg	0 256	0 228	102		32-137	11 7	39	L555147-01	WG573603
Ethylbenzene	mg/kg	0 268	0 236	107		10-150	12 9	44	L555147-01	WG573603
Toluene	mg/kg	0 273	0 244	109		20-142	11 1	42	L555147-01	WG573603
Total Xylene	mg/kg	0 801	0 705	107		16-141	12 8	46	L555147-01	WG573603
a,a,a-Trifluorotoluene(FID)				95 45		59-128				WG573603
a,a,a-Trifluorotoluene(FID)				105 2		54-144				WG573603
Chloride	mg/kg	539	551	96.8		80-120	2 20	20	L555222-02	WG573758

Batch number / Run number / Sample number cross reference

WG573603 R1996572 L555147-01  
WG573622 R1997713 L555147-01  
WG573657 R1998032 L555147-01  
WG573758 R1998852 L555147-01

\* \* 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 '



**YOUR LAB OF CHOICE**

XTO Energy - San Juan Division  
James McDaniel  
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Aztec, NM 87410

Quality Assurance Report  
Level II

L555147

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Est 1970

January 13, 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.

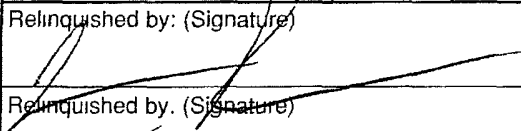
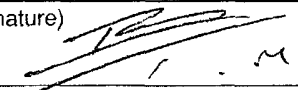


Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the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

13166

Client: <b>XTO</b>			Project Name / Location: <b>HARE GAS COM B#1E</b>			ANALYSIS / PARAMETERS												
Email results to: <b>James McDaniel</b>			Sampler Name: <b>JKIRCHNER</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		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
					HgCl <sub>2</sub>	HCl												
<b>BGT</b>	<b>1/10/12</b>	<b>1130</b>	<b>60765</b>	<b>1402</b>											<input checked="" type="checkbox"/>		<b>Y</b>	<b>Y</b>
Relinquished by: (Signature) 				Date: <b>1/10/12</b>	Time: <b>12:05</b>	Received by: (Signature) 				Date: <b>1/10/12</b>	Time: <b>12:05</b>							
Relinquished by: (Signature)				Date:	Time:	Received by: (Signature)				Date:	Time:							
Sample Matrix: Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>				Date:	Time:					Date:	Time:							
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area												 <b>envirotech</b> Analytical Laboratory						
																		



EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

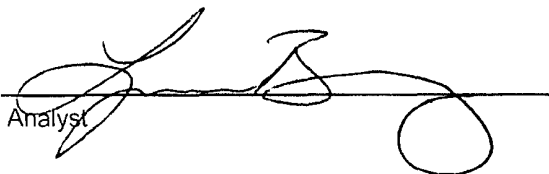
Client:	XTO	Project #.	98031-0528
Sample ID.	BGT	Date Reported	01-10-12
Laboratory Number.	60765	Date Sampled.	01-10-12
Chain of Custody No.	13166	Date Received.	01-10-12
Sample Matrix:	Soil	Date Extracted	01-10-12
Preservative	Cool	Date Analyzed.	01-10-12
Condition	Intact	Analysis Needed.	TPH-418.1

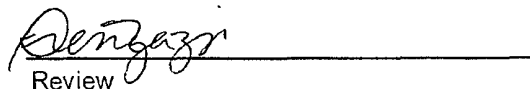
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	44.9	6.4

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: Hare Gas Com B #1E

Analyst 

Review 



EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID	QA/QC	Date Reported:	01-10-12
Laboratory Number:	01-10-TPH QA/QC 60765	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	01-10-12
Preservative:	N/A	Date Extracted:	01-10-12
Condition	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
	11-16-11	01-10-12	1,610	1,670	3.7%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	6.4

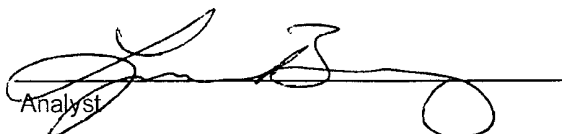
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	44.9	38.5	14.3%	+/- 30%

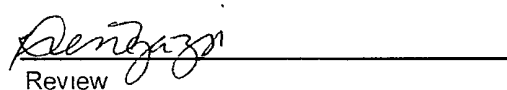
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
TPH	44.9	2,000	2,310	113%	80 - 120%

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 60765

Analyst 

Review 

# Well Below Tank Inspection Report

03/06/2012

Dates -  
06/01/2008 - 03/01/2012

Type Route Stop

Type Value H

RouteName		StopName		Pumper	Foreman	WellName		APIWellNumber		Section	Range	Township
DEN NM Run 43A		HARE GAS COM B 001		Wheeler, Adam	Bramwell, Chris	HARE GC B 01E		3004523732		23	11W	29N
InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes	
Tony Breadmont	08/20/2008	07 55	No	No	No	No	No	4	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	09/25/2008	08 44	No	No	No	No	No	4	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	10/27/2008	09 24	No	No	No	No	No	2	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	11/01/2008	08 20	No	No	No	Yes	No	2	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	12/02/2008	02 00	No	No	No	Yes	No	4	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	01/05/2009	01 38	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	02/24/2009	08 00	No	No	No	Yes	No	2	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	03/22/2009	09 33	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	04/11/2009	10 55	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
Tony Breadmont	05/10/2009	10 29	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
LRoss	06/04/2009	12 45	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
LRoss	07/08/2009	08 20	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
LRoss	08/05/2009	08 45	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
tb	09/04/2009	09 42	No	No	No	Yes	No	2	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
tb	10/06/2009	10 39	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
tb	11/11/2009	02 48	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
tb	12/12/2009	08 08	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
tb	01/05/2010	08 43	No	No	No	Yes	No	3	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water
rf	02/02/2010	03 08	No	No	No	Yes	No	1	Compressor \ Below Ground		Moisture in pit due to irrigation of neighboring fields	No standing water

rf	03/13/2010	02 10	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
rf	04/08/2010	10 04	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	05/08/2010	11 21	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
rf	06/02/2010	02 39	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	07/02/2010	12 14	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	08/03/2010	08 02	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	09/02/2010	01 50	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	10/03/2010	01 57	No	No	No	Yes	No	4	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	11/03/2010	11 33	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	12/09/2010	01 03	No	No	No	Yes	No	3	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	01/15/2011	12 10	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	02/12/2011	08 44	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	03/05/2011	01 30	No	No	No	Yes	No	4	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	04/04/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
tb	05/12/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	06/29/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	07/20/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	08/03/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	09/27/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	10/18/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	11/02/2011	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
A Wheeler	02/02/2012	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water
ll	02/03/2012	12 21	No	No	No	Yes	No	2	Compressor \ Below Ground	Moisture in pit due to irrigation of neighboring fields	No standing water



