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.

10091

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
- ☒ 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.

Operator: XTO Energy, Inc. OGRID #: 5380

Address: 382 Road 3100, Aztec, New Mexico 87410

Facility or well name: Valdez A # 1 E

API Number: 30-045-24445 OCD Permit Number:

U/L or Qtr/Qtr G Section 24 Township 29N Range 11W County: San Juan

Center of Proposed Design: Latitude 36.70639 Longitude -107.88639 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

RCVD MAY 21 '12
OIL CONS. DIV.
DIST. 3

Temporary: ☐ Drilling ☐ Workover

☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A

☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____

☐ String-Reinforced

Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L ___ x W ___ x D ___

3.

☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC

Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)

☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____

☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____

Liner Seams: ☐ Welded ☐ Factory ☐ Other _____

4.

☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC

RCVD JUN 13 '12
OIL CONS. DIV.
DIST. 3

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 ☐ Not labeled

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.

31

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_____

7.

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

☐ Screen ☐ Netting ☐ Other_____

☐ 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	☐ Yes ☐ 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	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ 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	☐ 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.	☐ Yes ☐ No
Within 500 feet of a wetland.	☐ 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

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_2S, 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 indentify 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): Kurt Hoekstra Title: Sr. Environmental Technician

Signature: Kurt Hoekstra Date: 5-17-2012

E-mail address: Kurt_Hocksatra@xtoenergy.com Telephone: 505-333-3202

20.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure ~~Plan (only)~~ ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Jonathan D Kelly 6/15/2012 **Approval Date:** 5/22/2012

Title: Compliance Officer **OCD Permit Number:** 10091

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:** 5-23-2012

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: 6-7-2012

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
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

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: Valdez A # 1 E (30-045-24445)	Facility Type: Gas Well (Dakota)

Surface Owner: Private	Mineral Owner:	Lease No.: Fee

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	24	29N	11W	2390	FNL	2560	FEL	San Juan

Latitude: 36.7119 **Longitude:** -107.9428

NATURE OF RELEASE

Type of Release: Produced Water/Incidental Oil	Volume of Release:10 BBL	Volume Recovered: ~ 10 BBLs
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: May 16,2012
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell	
By Whom? James McDaniel	Date and Hour 5-17-2012 10:18 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On May 16,2012 a leak was found on the below grade tank at the Valdez A # 1 E . There was approximately 10 BBL's lost inside the BGT cellar, with nearly 10 BBL's recovered. This site was then ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. This location was then ranked a 40 due to a wash at less than 1,000 feet from location, and a suspected depth to groundwater of less than 50 feet. This set the closure standards to 100 ppm TPH, 50ppm total BTEX and 10 ppm Benzene.

Describe Area Affected and Cleanup Action Taken.*
Based on TPH Results of 813 PPM , and chlorides at 310 ppm, it has been confirmed that a release had occurred at 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: Kurt Hoekstra	OIL CONSERVATION DIVISION Approved by District Supervisor:	
Printed Name: Kurt Hoekstra		
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 6-7-2012 Phone: 505-333-3202		

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

Lease Name: Valdez A # 1 E
API No.: 30-045-24445
Description: Unit G, Section 24, 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 May 23, 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 May 23, 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	**21.1 ug/kg**
BTEX	EPA SW-846 8021B or 8260B	50	**558 ug/kg**
TPH	EPA SW-846 418.1	100	**813 mg/kg**
Chlorides	EPA 300.1	250 or background	**310 mg/kg**
TPH (spill rule)	EPA Method 8015 Modified	100	**16.6 mg/kg**

8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
Due to TPH results of 813 PPM, and chlorides 310 ppm, beneath our BGT, a release has been confirmed for this location. A C-141 Release Notification form will be sent outlining any remediation activities taken regarding this release.

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
The pit cellar 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 May 17, 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 May 21, 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 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.

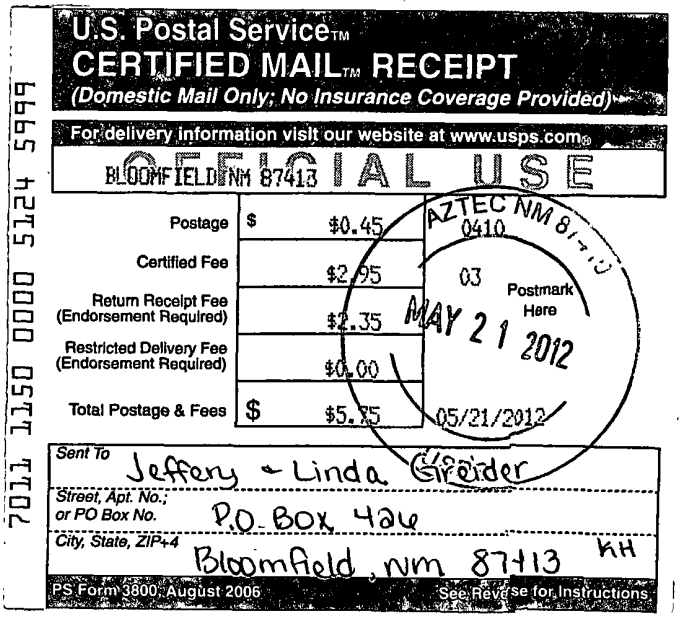
The site has been backfilled to match these specifications.

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 continue to be used for daily operations pertaining to oil and gas explorations and production activities. 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); **NA**
viii. Photo documentation of the site reclamation. **attached**



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05/21/2012

7011 1150 0000 5124 5999

Sent To Jeffery ~ Linda Greider
Street, Apt. No.; or PO Box No. P.O. Box 426
City, State, ZIP+4 Bloomfield, NM 87413 KH

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Jeffery ~ Linda Greider
P.O. Box 426
Bloomfield, NM 87413

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Linda Greider ☐ Agent ☑ Addressee

B. Received by (Printed Name) LINDA GREIDER C. Date of Delivery 5/22/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 1150 0000 5124 5999

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 21, 2012

Jeffery & Linda Greider,
P.O. Box 426
Bloomfield, New Mexico, 87413

Re: Valdez A # 1 E API # 30-045-24445
Unit G, Section 24, Township 29N, Range 11W, San Juan County, New Mexico

Dear Sir or Madam;

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,

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

James McDaniel /FAR/CTOC
05/17/2012 10:18 PM

To brandon.powell@state.nm.us
cc Kurt Hoekstra/FAR/CTOC@CTOC, Logan Hixon/FAR/CTOC@CTOC
bcc
Subject Valdez A #1E BGT Leak

Brandon,

Please accept this email as the required notification of a BGT leak at the Valdez A #1E well site (api 30-045-24445) located in Unit G, Section 24, Township 29N, Range 11W, San Juan County, New Mexico. The leak was discovered on Tuesday, May 16th, when several inches of water and oil were noticed in the pit cellar. A vac truck was immediately dispatched, and approximately 10 bbls of water and oil were recovered from the bottom of the pit cellar. The pit cellar has a liner on the bottom, but is mainly for leak detection purposes. The BGT will be removed due to the integrity failure, and the BGT will be closed, and the pit tank brought above grade. Groundwater is estimated at less than 50 feet at this location. Once the BGT is removed, BGT closure sampling will take place. Please don't hesitate to contact me with any questions regarding this incident. Thank you very much.

James McDaniel, CHMM #15676
EH&S Supervisor
XTO Energy, Inc.
Office # 505-333-3701
Cell # 505-787-0519
James_Mcdaniel@xtoenergy.com

CHAIN OF CUSTODY RECORD

13988

Client:	Project Name / Location:
XTO	VALDEZ A #1E
Email results to: JAMES McDANIEL KURT HOEKSTRA, LOGAN HIXON	Sampler Name: Kurt
Client Phone No.:	Client No.:

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	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
BGT Closure	5/21	12:45		1 4oz Jar				X	X							X	X				X	X
BGT Metals	5/21	2:00		1 4oz Jar										X								
BGT N.E. Corner	5/21	2:35		1 4oz Jar				X	X													

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kurt Hoekstra	5-21	3:30	[illegible]	5-21-1	3.30
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☐ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

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Report Summary

Client: XTO

Chain of Custody Number: 13988

Samples Received: 05-21-12

Job Number: 98031-0528

Sample Number(s): 62111-62113

Project Name/Location: Valdez A #1E

Entire Report Reviewed By: _____ Date: 5/23/12

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.

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laboratory@envirotech-inc.com

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Closure	Date Reported:	05-22-12
Laboratory Number:	62111	Date Sampled:	05-21-12
Chain of Custody No:	13988	Date Received:	05-21-12
Sample Matrix:	Soil	Date Extracted:	05-22-12
Preservative:	Cool	Date Analyzed:	05-22-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**813**	**7.4**

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: **Valdez A #1E**

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	05-22-12
Laboratory Number:	05-22-12-TPH.QA/QC 62111	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	05-22-12
Preservative:	N/A	Date Extracted:	05-22-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	04-25-12	05-22-12	1,850	1,720	7.0%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	7.4

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	813	1,020	25.4%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	813	2,000	2,660	94.6%	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 62111-62113.**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT N.E. Corner	Date Reported:	05-22-12
Laboratory Number:	62113	Date Sampled:	05-21-12
Chain of Custody No:	13988	Date Received:	05-21-12
Sample Matrix:	Soil	Date Extracted:	05-21-12
Preservative:	Cool	Date Analyzed:	05-22-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Valdez A #1E**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT N.E. Corner	Date Reported:	05-22-12
Laboratory Number:	62113	Date Sampled:	05-21-12
Chain of Custody:	13988	Date Received:	05-21-12
Sample Matrix:	Soil	Date Analyzed:	05-22-12
Preservative:	Cool	Date Extracted:	05-21-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**ND**	**10.0**
Ethylbenzene	**61.2**	**10.0**
p,m-Xylene	**381**	**10.0**
o-Xylene	**45.5**	**10.0**
Total BTEX	**487**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**89.3 %**
	1,4-difluorobenzene	**87.5 %**
	Bromochlorobenzene	**96.6 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, December 1996.

Comments: **Valdez A #1E**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Closure	Date Reported:	05-22-12
Laboratory Number:	62111	Date Sampled:	05-21-12
Chain of Custody No:	13988	Date Received:	05-21-12
Sample Matrix:	Soil	Date Extracted:	05-21-12
Preservative:	Cool	Date Analyzed:	05-22-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**12.6**	**0.2**
Diesel Range (C10 - C28)	**4.0**	**0.1**
Total Petroleum Hydrocarbons	**16.6**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Valdez A #1E**

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0522TCA2 QA/QC	Date Reported:	05-22-12
Laboratory Number:	62091	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-22-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-22-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-22-12	1.0503E+03	1.0507E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**267**	**107%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**289**	**115%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Was SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 62091-62094, 62111 and 62113**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Closure	Date Reported:	05-22-12
Laboratory Number:	62111	Date Sampled:	05-21-12
Chain of Custody:	13988	Date Received:	05-21-12
Sample Matrix:	Soil	Date Analyzed:	05-22-12
Preservative:	Cool	Date Extracted:	05-21-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**21.1**	**10.0**
Toluene	**12.3**	**10.0**
Ethylbenzene	**67.2**	**10.0**
p,m-Xylene	**365**	**10.0**
o-Xylene	**91.8**	**10.0**
Total BTEX	**558**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**84.1 %**
	1,4-difluorobenzene	**90.3 %**
	Bromochlorobenzene	**95.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846 USEPA, December 1996.

Comments: **Valdez A #1E**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0522BCAL QA/QC	Date Reported:	05-22-12
Laboratory Number:	62111	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-22-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0-15%	%Diff.	Blank Conc	Detect. Limit
Benzene	3.9794E-06	3 9787E-06	0.000	ND	0.2
Toluene	3.9039E-06	3.9039E-06	0.000	ND	0.2
Ethylbenzene	4.2973E-06	4.3925E-06	0.022	ND	0.2
p,m-Xylene	3.2329E-06	3.2329E-06	0.000	ND	0.2
o-Xylene	4.4537E-06	4.4537E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	21.1	21.1	0.000	0 - 30%	10
Toluene	12.3	12.6	0.024	0 - 30%	10
Ethylbenzene	67.2	66.9	0.004	0 - 30%	10
p,m-Xylene	365	366	0.002	0 - 30%	10
o-Xylene	91.8	91.4	0.004	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	21.1	2500	2400	95.2	39 - 150
Toluene	12.3	2500	2440	97.1	46 - 148
Ethylbenzene	67.2	2500	2450	95.4	32 - 160
p,m-Xylene	365	5000	5330	99.3	46 - 148
o-Xylene	91.8	2500	2490	96.1	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 62107, 62111 and 62113**

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EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Metals	Date Reported:	05-23-12
Laboratory Number:	62112	Date Sampled:	05-21-12
Chain of Custody:	13988	Date Received:	05-21-12
Sample Matrix:	TCLP Extract	Date Analyzed:	05-22-12
Preservative:	Cool	Date Extracted:	05-21-12
Condition:	Intact	Analysis Needed:	TCLP Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.0**
Barium	**0.250**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.010**	**0.001**	**5.0**
Lead	**0.012**	**0.001**	**5.0**
Mercury	**0.001**	**0.001**	**0.2**
Selenium	**0.019**	**0.001**	**1.0**
Silver	**0.016**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Method 3010 Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Valdez A #1E**

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Analytical Laboratory

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS
Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	05-22TCM QA/QC	Date Reported:	05-22-12
Laboratory Number:	62110	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	05-22-12
Condition:	N/A	Date Extracted:	05-21-12

Blank & Duplicate Conc: (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.00%	0% - 30%
Barium	ND	ND	0.001	0.576	0.567	1.56%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.00%	0% - 30%
Chromium	ND	ND	0.001	0.003	0.003	0.00%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.00%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.00%	0% - 30%
Selenium	ND	ND	0.001	0.232	0.234	1.21%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.00%	0% - 30%

Spike Conc: (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	ND	0.234	93.4%	80% - 120%
Barium	0.500	0.576	1.10	103%	80% - 120%
Cadmium	0.250	ND	0.222	88.8%	80% - 120%
Chromium	0.500	0.003	0.482	95.8%	80% - 120%
Lead	0.500	ND	0.440	88.0%	80% - 120%
Mercury	0.100	ND	0.092	92.0%	80% - 120%
Selenium	0.100	0.232	0.326	98.3%	80% - 120%
Silver	0.100	ND	0.096	95.5%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Method 3010 Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission, SW-846, USEPA, December 1996.

Comments: **QA/QC for Sample 62109-62110, 62112, 62115, and 62106-62107**

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Chloride

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Closure	Date Reported:	05-22-12
Lab ID#:	62111	Date Sampled:	05-21-12
Sample Matrix:	Soil	Date Received:	05-21-12
Preservative:	Cool	Date Analyzed:	05-22-12
Condition:	Intact	Chain of Custody:	13988

Parameter	Concentration (mg/Kg)
Total Chloride	**310**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Valdez A #1E**

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CHAIN OF CUSTODY RECORD

13988

Client:	Project Name / Location:
XTO	VALDEZ A#1E
Email results to: JAMES McDANIEL KURT HOEKSTRA, LOGAN HIXON	Sampler Name: Kurt
Client Phone No.:	Client No.: 98031-0528

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP ~~with H2S~~ Metals	CO Table 910-1 PLK	TPH (418.1) 5-21-12 JAMES	CHLORIDE	Sample Cool	Sample Intact
BGT Closure	5/21	12:45	62111	1 4oz JAR			X	X							X	X	X	X
BGT METALS	5/21	2:00	62112	1 4oz JAR									X					
BGT N.E. CORNER	5/21	2:35	62113	1 4oz JAR			X	X										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kurt Hoekstra	5-21	3:30	Ariana S. Hammer	5-21-12	3:30
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

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XTO Energy On-Site Form

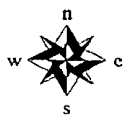
Well Name VALDEZ A #1E API # 30-045-24445

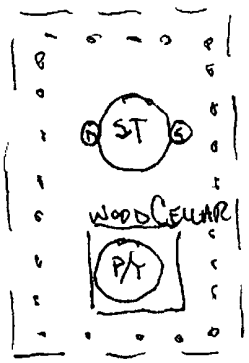
Section 24G Township 29N Range 11W County SAN JUAN

Contractors On-Site KEYSTONE Time On-Site 11:35 Time Off-Site 3:00

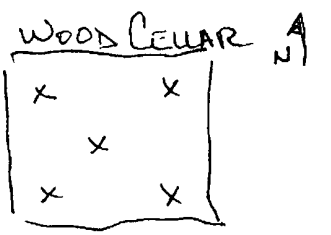
Spill Amount 10 bbls Spilled (Oil / Produced Water / Other _____)

Land Use (Grazing / Residential / Tribe FARM) Excavation 14 x 14 x 7½ deep

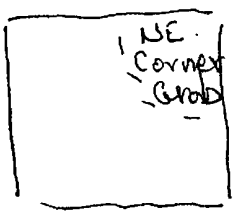




Site Diagram



Sample Location



Sample Location

Comments

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
12:45	Comp	5pt BGT CELLAR	wet, clay,	57.1	8015, 8021, 418.1, Chloride
2:00		NE Corner	Dark, wet	1740	
2:35	Grab	NE Corner	Damp CLAY	507	8015, 802.1

Name (Print) KURT HOEKSTRA Date 5-21-12

Name (Signature) Kurt Hoekstra Company XTO

XTO ENERGY

Denver

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

Type Route Stop

Type Value V

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Townshi
DEN NM Run 43A	VALDEZ A 001E	Wheeler, Adam	Bramwell, Cl	VALDEZ A 01E	3004524445	24	11W	29N

InspectorName	Inspection Date	Inspection Time	Visible LinerTeak	VisibleTankLeak Overflow	Collection OfSurfaceR	Visible LayerOi	Visible Leak	Freeboard	PitLocatio	PitTyp	Notes
BRUCE FRANT	08/05/2008	1430:00	No	No	No	Yes	No	40			
BRUCE FRANT	09/17/2008	900:00	No	No	No	Yes	No	30	Well Wate	Below Ground	
BRUCE FRANT	10/14/2008	900:00	No	No	No	Yes	No	30	Well Wate	Below Ground	
BRUCE FRANT	01/23/2009	10:00	No	No	No	Yes	No	2	Well Wate	Below Ground	
BRUCE FRANT	02/25/2009	11:00	No	No	No	Yes	No	4	Well Wate	Below Ground	
BRUCE FRANT	03/15/2009	10:00	No	No	No	Yes	No	3	Well Wate	Below Ground	
BRUCE FRANT	04/15/2009	11:00	No	No	No	Yes	No	4	Well Wate	Below Ground	
Linsey Ross	05/19/2009	11:00	No	No	No	Yes	Yes	2	Well Wate	Below	Line from cmpressor leaking at hammer union into pit cellar
BRUCE FRANT	06/09/2009	17:30	No	No	No	Yes	Yes	3	Well Wate	Below	Line from cmpressor leaking at hammer union into pit cellar
BRUCE FRANT	07/15/2009	09:00	No	No	No	Yes	Yes	3	Well Wate	Below	Line from cmpressor leaking at hammer union into pit cellar
Bill Smith	08/05/2009	12:00	No	No	No	Yes	Yes	3	Well Wate	Below	Line from cmpressor leaking at hammer union into pit cellar
Bill Smith	09/09/2009	11:00	No	No	No	Yes	Yes	4	Well Wate	Below	Line from cmpressor leaking at hammer union into pit cellar
Bill Smith	10/26/2009	14:30	No	No	No	Yes	Yes	4	Well Wate	Below Ground	
BRUCE FRANT	11/09/2009	10:00	No	No	No	Yes	Yes	2	Well Wate	Below Ground	
BRUCE FRANT	12/01/2009	12:00	No	No	No	Yes	Yes	3	Well Wate	Below Ground	
BRUCE FRANT	01/01/2010	09:00	No	No	No	Yes	Yes	3	Well Wate	Below Ground	
BRUCE FRANT	02/02/2010	09:00	No	No	No	Yes	Yes	3	Well Wate	Below Ground	
BRUCE FRANT	03/23/2010	10:00	No	No	No	Yes	Yes	3	Well Wate	Below Ground	

BRUCE FRANT.	04/13/2010	10:00	No	No	No	Yes	Yes	2	Well Water Below Ground
BRUCE FRANT.	05/10/2010	09:00	No	No	No	Yes	Yes	2	Well Water Below Ground
BRUCE FRANT.	06/02/2010	03:00	No	No	No	Yes	Yes	2	Well Water Below Ground
BRUCE FRANT.	07/12/2010	12:00	No	No	No	Yes	Yes	3	Well Water Below Ground
BRUCE FRANT.	08/10/2010	03:00	No	No	No	Yes	Yes	2	Well Water Below Ground
BRUCE FRANT.	09/07/2010	11:00	No	No	No	Yes	Yes	2	Well Water Below Ground
BRUCE FRANT.	12/15/2010	12:00	No	No	No	Yes	Yes	3	Well Water Below Ground
Adam Wheeler	01/31/2011	12:00	No	No	No	Yes	Yes	3	Well Water Below Ground
Adam Wheeler	03/24/2011	12:00	No	No	No	Yes	Yes	3	Well Water Below Ground
Adam Wheeler	04/29/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	05/24/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	07/08/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	08/03/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	09/05/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	10/18/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
Adam Wheeler	11/02/2011	12:00	No	No	No	Yes	No	3	Well Water Below Ground
JJ	05/16/2012	12:40	No	No	No	Yes	No	3	Well Water Below Ground

LOWES