

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

9285
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: <u>XTO Energy, Inc.</u>		OGRID # <u>5380</u>
Address: <u>382 Road 3100, Aztec New Mexico 87410</u>		
Facility or well name <u>Bolack 16 #3</u>		
API Number <u>30-045-32068</u>		OCD Permit Number:
U/L or Qtr/Qtr <u>P</u>	Section <u>16</u>	Township <u>27N</u> Range <u>11W</u> County <u>San Juan</u>
Center of Proposed Design Latitude <u>36 56972</u>		Longitude <u>-108 00250</u> NAD <input type="checkbox"/> 1927 <input checked="" type="checkbox"/> 1983
Surface Owner: <input checked="" type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment		
2. <input type="checkbox"/> Pit: Subsection F or G of 19 15 17.11 NMAC Temporary <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Permanent <input type="checkbox"/> Emergency <input type="checkbox"/> Cavitation <input type="checkbox"/> P&A <input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____ <input type="checkbox"/> String-Reinforced Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____ Volume: _____ bbl Dimensions L _____ x W _____ x D _____		
3. <input type="checkbox"/> Closed-loop System: Subsection II of 19 15 17 11 NMAC Type of Operation: <input type="checkbox"/> P&A <input type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) <input type="checkbox"/> Drying Pad <input type="checkbox"/> Above Ground Steel Tanks <input type="checkbox"/> Haul-off Bins <input type="checkbox"/> Other _____ <input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____ Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____		
4. <input checked="" type="checkbox"/> Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume <u>120</u> bbl Type of fluid <u>Produced Water</u> Tank Construction material: <u>Steel</u> <input type="checkbox"/> Secondary containment with leak detection <input type="checkbox"/> Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off <input type="checkbox"/> Visible sidewalls and liner <input checked="" type="checkbox"/> Visible sidewalls only <input type="checkbox"/> Not labeled Liner type: Thickness _____ mil <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____		RCVD MAY 29 '12 OIL CONS. DIV. DIST. 3
5. <input type="checkbox"/> 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 _____

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	<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 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 (Applies to temporary emergency, or cavitation pits and below-grade tanks)	<input type="checkbox"/> Yes <input 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 (Applies to permanent pits)	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	<input 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 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 type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine	<input type="checkbox"/> Yes <input 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 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 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 H₂S, 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 French 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

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

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. Request regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

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

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) James McDaniel Title: EHS Supervisor
Signature [Signature] Date: 12/6/11
E-mail address James.McDaniel@xtoenergy.com Telephone 505-333-3701

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

OCD Representative Signature: [Signature] Approval Date: 12/06/2011
Title: Compliance Officer OCD Permit Number: _____

21
Closure Report (required within 60 days of closure completion): Subsection K of 19.15 17 13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: 3-9-2012

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 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: [Signature] Date: _____
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
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: Bolack 16 # 3 (30-045-32068)	Facility Type: Gas Well (Basin Fruitland Coal)

Surface Owner: Federal	Mineral Owner:	Lease No : NMSF-078872A
------------------------	----------------	-------------------------

LOCATION OF RELEASE

Unit Letter P	Section 16	Township 27N	Range 11W	Feet from the 660	North/South Line FSL	Feet from the 660	East/West Line FEL	County San Juan
------------------	---------------	-----------------	--------------	----------------------	-------------------------	----------------------	-----------------------	--------------------

Latitude: 36.56972 Longitude: -108.00250

NATURE OF RELEASE

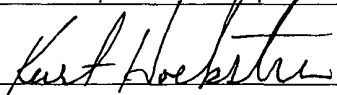
Type of Release N/A	Volume of Release N/A	Volume Recovered N/A
Source of Release N/A	Date and Hour of Occurrence N/A	Date and Hour of Discovery NA
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By 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 taken out of service at the Bolack 16 # 3 well site due to the plugging and abandoning of this well site 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 	OIL CONSERVATION DIVISION		
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	Phone 505-333-3202		

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

Lease Name: Bolack 16 # 3

API No.: 30-045-32068

Description: Unit P, Section 16, Township 27N, 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 March 9, 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 March 9, 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 has been removed due to the plugging and abandoning of the Bolack 16 # 3 well site.

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

A 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
Benzene	EPA SW-846 8021B or 8260B	0.2	< 0. 0027mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0. 5704mg/kg
TPH	EPA SW-846 418.1	100	25.7 mg/kg
Chlorides	EPA 300.1	250 or background	40 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 March 2, 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 March 2, 2012 via email. Email has been approved as a means of surface owner notification to the BLM by Brandon Powell, NMOCD Aztec Office.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
The location has been recontoured to match the above specifications.
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.
Site has been reclaimed pursuant to the BLM MOU.
14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner; **attached**
 - ii. Details on capping and covering, where applicable; **per OCD Specifications**
 - iii. Inspection reports; **attached**
 - iv. Confirmation sampling analytical results; **attached**
 - v. Disposal facility name(s) and permit number(s); **see above**
 - vi. Soil backfilling and cover installation; **per OCD Specifications**
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **Per BLM MOU.**
 - viii. Photo documentation of the site reclamation. **attached**
15. This closure report is being submitted after the 60 day deadline required by the 'Pit Rule' due to a unforeseen delay on final reclamation of this well site. This delay was due to the gathering company not removing their equipment in a timely fashion.



Kurt Hoekstra /FAR/CTOC
03/02/2012 07:39 AM

To: brandon.powell@state.nm.us
cc
bcc

Subject: BGT Closure Notification Bolack 16 # 3



- P&A OCD Closure Notification.doc

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

Brandon,

Please accept this email as the required notification for BGT closure activities at the
Bolack 16 # 3 well site (API #30-045-32068) located in unit P, Section 16, Township 27N,
Range 11W, San Juan County, New Mexico

This tank will no longer be used due to the plugging and abandoning of this location

Thank you for your time in regards to this project

Respectfully Submitted,

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



Kurt Hoekstra /FAR/CTOC

03/02/2012 07:26 AM

To Mark_Kelly@blm.gov

cc

bcc

Subject BGT Closure Notification Bolack 16 # 3

Please review the attached document.

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



- BLM Surface Owner Notification.doc

March 2, 2012,

Mark Kelly,
Bureau of Land Management – Farmington Field Office
1235 La Plata Highway
Farmington, New Mexico, 87401

Re: Bolack 16 # 3 API # 30-045-32068
Unit P, Section 16 , Township 27N, Range 11W, San Juan County, New Mexico

Dear Mr. Kelly,

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

Company Name/Address XTO ENERGY, INC. 382 County Road 3100 AZTEC, NM 87410				Alternate Billing Report to: James McDaniel E-mail to: james_mcdaniel@xtoenergy.com				Analysis/Container/Preservative <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">8015</td> <td style="width:10%;">8021</td> <td style="width:10%;">Chlorides</td> <td style="width:10%;">Nitrate</td> <td style="width:10%;">Nitrite</td> <td style="width:10%;">Ammonia</td> <td style="width:10%;">Sulfide</td> <td style="width:10%;">Cyanide</td> <td style="width:10%;">Fluoride</td> <td style="width:10%;">Silica</td> </tr> </table>				8015	8021	Chlorides	Nitrate	Nitrite	Ammonia	Sulfide	Cyanide	Fluoride	Silica	D214 Chain of Custody Page ___ of ___	
8015	8021	Chlorides	Nitrate	Nitrite	Ammonia	Sulfide	Cyanide	Fluoride	Silica														
Project Description BGT Closure				City/State Collected				Prepared by ENVIRONMENTAL SCIENCE CORP 12065 Lebanon Road Mt Juliet TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859															
PHONE 505-333-3701 FAX		Client Project No		Lab Project #																			
Collected by: Brad Griffith		Site/Facility ID# Bullock 116 #3		P O #																			
Collected by (signature) 		<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified) Next Day 100% Two Day 50% Three Day 25%		Date Results Needed Email? ___ No ___ Yes FAX? ___ No ___ Yes																			
Packed on ice N ___ Y <input checked="" type="checkbox"/>				No ___ of ___		Shipped Via: Fed Ex		CoCode: (lab use only) XTORNM Template/Prelogin Shipped Via: Fed Ex		Remarks/contaminant		Sample # (lab only)											
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	8015	8021	Chlorides	Nitrate	Nitrite	Ammonia	Sulfide	Cyanide	Fluoride	Silica	pH	Temp	Flow	Other			
BGT CLOSURE	COMP	SS		12/9/11	0538	1	X	X	X														

Matrix SS=Soil/Solid GW=Groundwater WW=Wastewater DW=Drinking Water OT= Other _____

pH _____ Temp _____

Remarks "ONLY 1 COC Per Site!!"

Flow _____ Other _____

Relinquisher by (Signature) 	Date 12/9/11	Time 1317	Received by (Signature) 	Samples returned via FedEx_X UPS_Other_	Condition (lab use only)
Relinquisher by (Signature) 	Date	Time	Received by (Signature) 	Temp 3.6	Bottles Received 1/402
Relinquisher by (Signature) 	Date	Time	Received for lab by (Signature) 	Date 12-10-11	Time 0400



12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

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

Report Summary

Friday December 16, 2011

Report Number: L551030

Samples Received: 12/10/11

Client Project:

Description:

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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

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

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences
Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures 060302, 060303, and 060304



12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

REPORT OF ANALYSIS

December 16, 2011

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

Date Received : December 10, 2011
Description :

Sample ID : BGT CLOSURE

Collected By : Brad Griffith
Collection Date : 12/09/11 08:38

ESC Sample # : L551030-01

Site ID BULACK 16 3

Project # :

Parameter	Dry Result	Det Limit	Units	Method	Date	Dil
Chloride	40	11	mg/kg	9056	12/12/11	1
Total Solids	94		%	2540G	12/16/11	1
Benzene	BDL	0 0027	mg/kg	8021/8015	12/12/11	5
Toluene	BDL	0 027	mg/kg	8021/8015	12/12/11	5
Ethylbenzene	BDL	0 0027	mg/kg	8021/8015	12/12/11	5
Total Xylene	BDL	0 0080	mg/kg	8021/8015	12/12/11	5
TPH (GC/FID) Low Fraction	BDL	0 53	mg/kg	GRO	12/12/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	91.5		% Rec	8021/8015	12/12/11	5
a,a,a-Trifluorotoluene (PID)	97.1		% Rec.	8021/8015	12/12/11	5
TPH (GC/FID) High Fraction	BDL	4.3	mg/kg	3546/DRO	12/13/11	1
Surrogate recovery(%)						
o-Terphenyl	80 1		% Rec	3546/DRO	12/13/11	1

Results listed are dry weight basis

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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

The reported analytical results relate only to the sample submitted

Reported: 12/16/11 13 07 Printed: 12/16/11 13:07

Summary of Remarks For Samples Printed
12/16/11 at 13.07 24

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L551030-01 Account: XTORNM Received: 12/10/11 09 00 Due Date: 12/16/11 00 00 RPT Date: 12/16/11 13:07
BGT Closure



YOUR LAB OF CHOICE

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

Aztec, NM 87410

Quality Assurance Report
Level II

L551030

12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

December 16, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< 0005	mg/kg			WG569532	12/11/11 23 42
Ethylbenzene	< 0005	mg/kg			WG569532	12/11/11 23 42
Toluene	< 005	mg/kg			WG569532	12/11/11 23 42
TPH (GC/FID) Low Fraction	< 1	mg/kg			WG569532	12/11/11 23 42
Total Xylene	< 0015	mg/kg			WG569532	12/11/11 23 42
a,a,a-Trifluorotoluene(FID)		% Rec	91 80	59-128	WG569532	12/11/11 23 42
a,a,a-Trifluorotoluene(PID)		% Rec	97 55	54-144	WG569532	12/11/11 23 42
Chloride	< 10	mg/kg			WG569525	12/11/11 20 52
TPH (GC/FID) High Fraction	< 4	ppm			WG569507	12/13/11 21 16
o-Terphenyl		% Rec	78 58	50-150	WG569507	12/13/11 21 16
Total Solids	< 1	%			WG569914	12/16/11 11 34

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/kg	42 0	46 0	8 14	20	L550952-04	WG569525
Chloride	mg/kg	39 0	38 0	2 85	20	L551030-01	WG569525
Total Solids	%	91 0	91 6	1 01	5	L551035-03	WG569914

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	05	0 0498	99 6	76-113	WG569532
Ethylbenzene	mg/kg	05	0 0553	111	78-115	WG569532
Toluene	mg/kg	05	0 0563	113	76-114	WG569532
Total Xylene	mg/kg	15	0 161	107	81-118	WG569532
a,a,a-Trifluorotoluene(PID)				96 33	54-144	WG569532
TPH (GC/FID) Low Fraction	mg/kg	5 5	5 97	109	67-135	WG569532
a,a,a-Trifluorotoluene(FID)				97 16	59-128	WG569532
Chloride	mg/kg	200	210	105	85-115	WG569525
TPH (GC/FID) High Fraction	ppm	60	41 6	69 3	50-150	WG569507
o-Terphenyl				84 14	50-150	WG569507
Total Solids	%	50	50 0	100	85-155	WG569914

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0 0484	0 0498	97 0	76-113	2 83	20	WG569532
Ethylbenzene	mg/kg	0 0532	0 0553	106	78-115	3 82	20	WG569532
Toluene	mg/kg	0 0534	0 0563	107	76-114	5 36	20	WG569532
Total Xylene	mg/kg	0 154	0 161	102	81-118	4 62	20	WG569532
a,a,a-Trifluorotoluene(PID)				96 69	54-144			WG569532
TPH (GC/FID) Low Fraction	mg/kg	6 14	5 97	112	67-135	2 83	20	WG569532
a,a,a-Trifluorotoluene(FID)				97 58	59-128			WG569532

* 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
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L551030

12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

December 16, 2011

Analyte	Units	Laboratory Control			Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec						
Chloride	mg/kg	213	210	106			85-115	1 42	20	WG569525
TPH (GC/FID) High Fraction	ppm	47 8	41 6	80 0			50-150	13 9	20	WG569507
o-Terphenyl				91 37			50-150			WG569507

Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref	Res					
Benzene	mg/kg	0 0405	0 00621	05	68 7	32-137	L551011-03		WG569532
Ethylbenzene	mg/kg	0 0431	0 00485	05	76 5	10-150	L551011-03		WG569532
Toluene	mg/kg	0 0452	0 0130	05	64 2	20-142	L551011-03		WG569532
Total Xylene	mg/kg	0 125	0 0104	15	76 7	16-141	L551011-03		WG569532
a,a,a-Trifluorotoluene(PID)					96 14	54-144			WG569532
TPH (GC/FID) Low Fraction	mg/kg	4 10	0 562	5 5	64 3	55-109	L551011-03		WG569532
a,a,a-Trifluorotoluene(FID)					95 01	59-128			WG569532
Chloride	mg/kg	545	46 0	500	99 8	80-120	L550952-03		WG569525
TPH (GC/FID) High Fraction	ppm	46 0	0	60	76 6	50-150	L551013-01		WG569507
o-Terphenyl					88 75	50-150			WG569507

Analyte	Units	MSD	Matrix Spike		Duplicate	Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0 0374	0 0405	62 3	32-137	8 15	39	L551011-03		WG569532
Ethylbenzene	mg/kg	0 0389	0 0431	68 1	10-150	10 2	44	L551011-03		WG569532
Toluene	mg/kg	0 0412	0 0452	56 2	20-142	9 29	42	L551011-03		WG569532
Total Xylene	mg/kg	0 112	0 125	67 4	16-141	11 7	46	L551011-03		WG569532
a,a,a-Trifluorotoluene(PID)				97 03	54-144					WG569532
TPH (GC/FID) Low Fraction	mg/kg	5 07	4 10	82 0	55-109	21 2*	20	L551011-03		WG569532
a,a,a-Trifluorotoluene(FID)				96 16	59-128					WG569532
a,a,a-Trifluorotoluene(PID)				103 1	54-144					WG569532
Chloride	mg/kg	547	545	100	80-120	0 366	20	L550952-03		WG569525
TPH (GC/FID) High Fraction	ppm	47 0	46 0	78 4	50-150	2 26	20	L551013-01		WG569507
o-Terphenyl				90 14	50-150					WG569507

Batch number /Run number / Sample number cross reference

WG569532 R1962052 L551030-01
WG569525 R1962592 L551030-01
WG569507 R1965574 L551030-01
WG569914 R1968908 L551030-01

* * 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
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L551030

12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

December 16, 2011

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.

13046

san juan reproduction 578-129


Client.	XTO	Project #	98031-0528
Sample ID	BGT Closure	Date Reported:	12-12-11
Laboratory Number.	60575	Date Sampled	12-09-11
Chain of Custody No.	13046	Date Received:	12-09-11
Sample Matrix:	Soil	Date Extracted:	12-12-11
Preservative	Cool	Date Analyzed:	12-12-11
Condition.	Intact	Analysis Needed:	TPH-418 1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	25.7	6.4

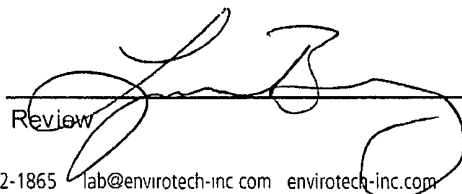
ND = Parameter not detected at the stated detection limit.

References: Method 418 1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments: **Bolack 16 #3**



Analyst



Review

**EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS
QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID	QA/QC	Date Reported	12-12-11
Laboratory Number	12-12-TPH QA/QC 60577	Date Sampled	N/A
Sample Matrix:	Freon-113	Date Analyzed:	12-12-11
Preservative:	N/A	Date Extracted	12-12-11
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	12-12-11	1,610	1,720	6.8%	+/- 10%

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

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	19.3	19.3	0.0%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	19.3	2,000	1,670	82.7%	80 - 120%

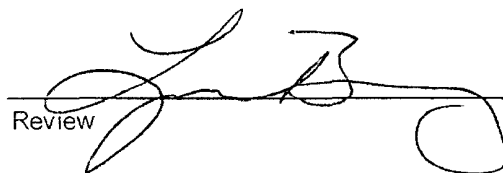
ND = Parameter not detected at the stated detection limit.

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

Comments: **QA/QC for Samples 60497 and 60573-60580**

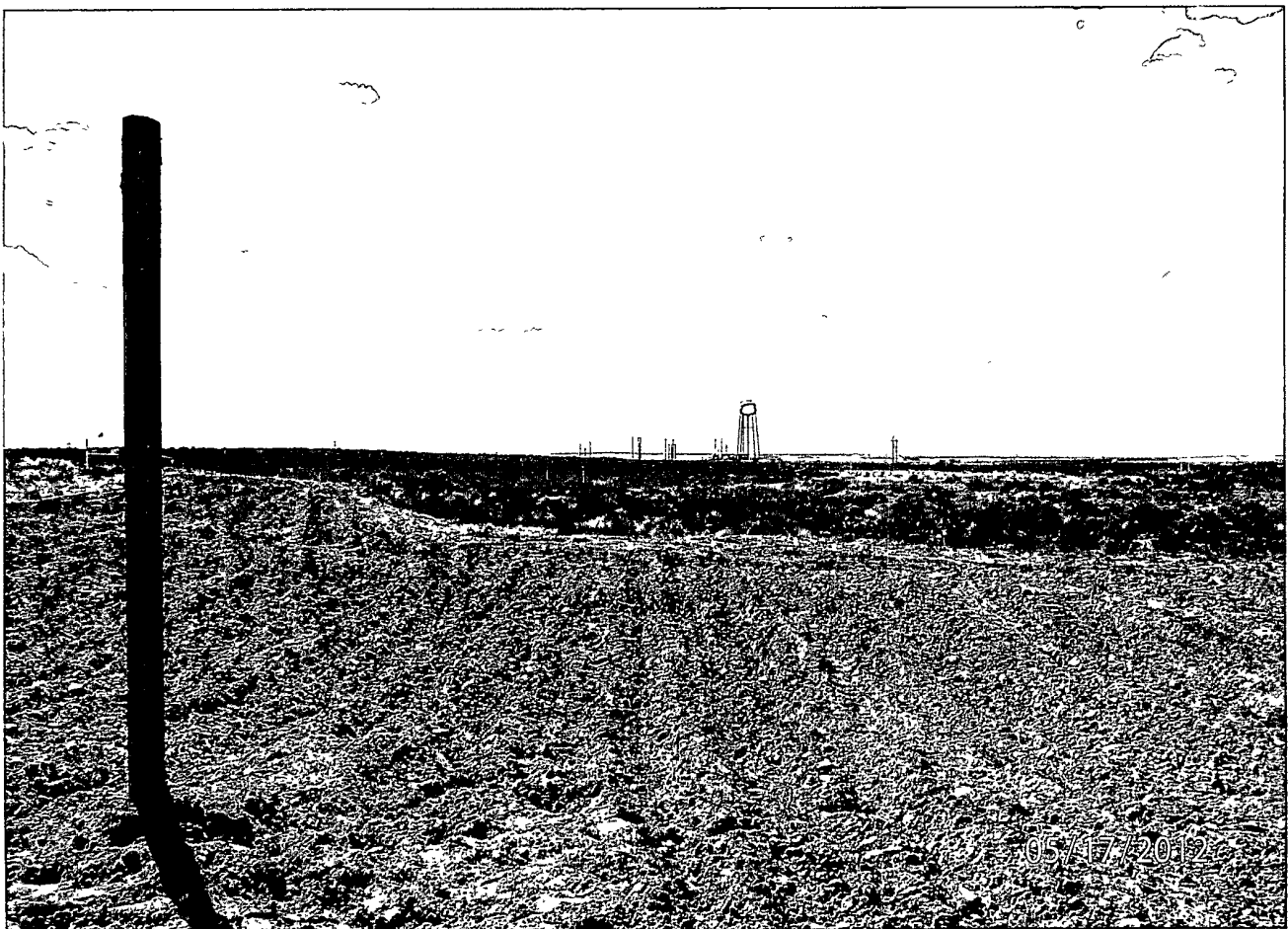
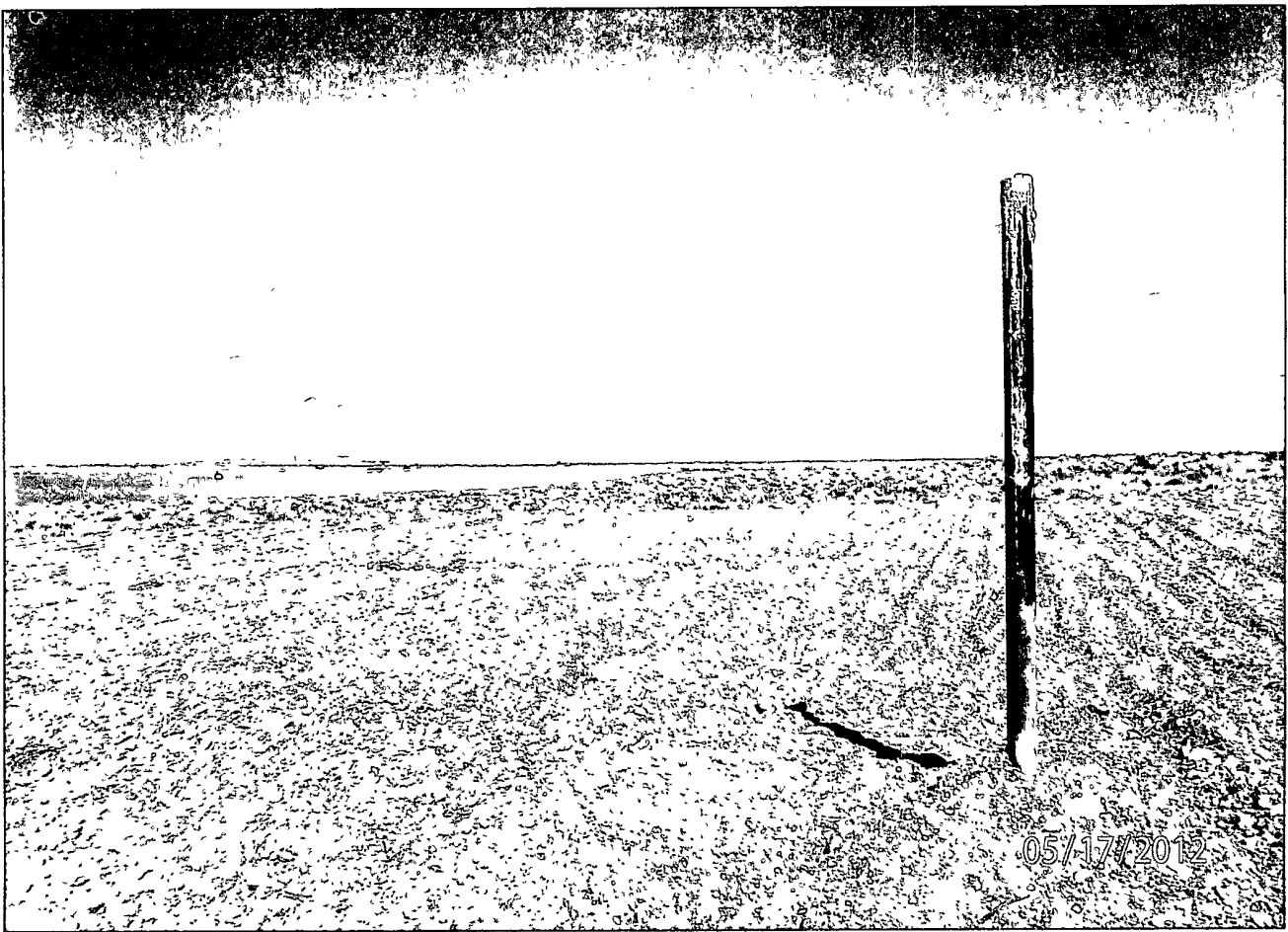


Analyst



Review







Well Below Tank Inspection Report

04/06/2012

Dates -
06/01/2008 - 04/01/2012

Type Route Stop

Type Value B

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township			
Below Grade Pit Forms (Temp)	Bolack 16 03	Thompson, Ronni	Unassigned	BOLACK 16 03 (PA)	3004532068	16	11W	27N			
InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes
Larry Bingham	09/10/2008	12 00	No	No	No	No	No	6			
Larry Bingham	10/25/2008	09 15	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	11/17/2008	10 00	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	12/09/2008	10 40	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	01/31/2009	12 50	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	03/13/2009	01 15	No	No	No	No	No	5	Well Water Pit	Below Ground	
Larry Bingham	04/11/2009	11 25	No	No	No	No	No	5	Well Water Pit	Below Ground	
Larry Bingham	08/27/2009	02 25	No	No	No	No	No	5	Well Water Pit	Below Ground	
Larry Bingham	05/10/2010	01 30	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	06/15/2010	01 40	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	07/21/2010	10 45	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	08/08/2010	12 00	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	09/17/2010	01 50	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	10/07/2010	12 50	No	No	No	No	No	6	Well Water Pit	Below Ground	
Larry Bingham	11/30/2010	03 50	No	No	No	No	No	6	Well Water Pit	Below Ground	
mk	01/31/2011	04 05	No	No	No	No	No	6	Well Water Pit	Below Ground	
mk	02/13/2011	12 51	No	No	No	No	No	6	Well Water Pit	Below Ground	
mk	03/30/2011	09 36	No	No	No	No	No	6	Well Water Pit	Below Ground	
mk	04/06/2011	09 58	No	No	No	No	No	6	Well Water Pit	Below Ground	
cm	05/04/2011	09 58	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	06/08/2011	11 58	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	07/07/2011	11 58	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	08/05/2011	10 20	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	09/01/2011	02 20	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	10/06/2011	12 00	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	11/16/2011	12 45	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	12/02/2011	12 45	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	01/05/2012	15 10	No	No	No	No	No	6	Well Water Pit	Below Ground	
Carlos Medina	02/08/2012	15 10	No	No	No	No	No	6	Well Water Pit	Below Ground	