

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

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

Form C-144
July 21, 2008

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

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

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

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

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

1.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Baca Gas Com A #1A
API Number: 30-045-26180 OCD Permit Number: _____
U/L or Qtr/Qtr F Section 26 Township 29N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.700190 Longitude 107.857250 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

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

RCVD APR 10 '13
OIL CONS. DIV.
DIST. 3

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

4.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 21 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

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

6.

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

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

7.

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

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

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

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

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

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

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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

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

11.

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

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

12.

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

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

13.

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

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including 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 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): Kim Champlin Title: Environmental Representative

Signature: Kim Champlin Date: 01/12/2009

e-mail address: kim_champlin@xtoenergy.com Telephone: (505) 333-3100

20.

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

OCD Representative Signature: [Signature] Approval Date: 2/27/13

Title: Senior Hydrologist OCD Permit Number: [Signature]

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: 3-20-2013

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: ENVIRONMENTAL COORDINATOR

Signature: Kurt Hoekstra Date: 4-4-2013

e-mail address: KURT_HOEKSTRA@XTOENERGY.COM Telephone: 505-333-3100

District I
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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: Baca Gas Com A # 1 A (30-045-26180)	Facility Type: Gas Well (Blanco Mesa Verde/ Otero Chacra)	
Surface Owner: Private	Mineral Owner:	Lease No. Fee

LOCATION OF RELEASE

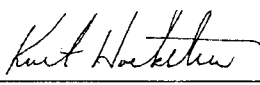
Unit Letter F	Section 26	Township 29N	Range 10W	Feet from the 1475	North/South Line FNL	Feet from the 1685	East/West Line FWL	County San Juan
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Latitude: 36.700190 Longitude: -107.857250

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 3-5-2013
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*The below grade tank was removed at the Baca Gas Com A # 1 A well site due to facility upgrades at the location. The soil 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' spill confirmation standards for benzene, total BTEX and chlorides, but above the 100 ppm TPH standard at 1400 ppm via USEPA Method 418.1, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated depth to groundwater of less than 50 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.		
Describe Area Affected and Cleanup Action Taken.* Based on TPH results of 1400 ppm via USEPA Method 418.1 a release has been confirmed 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.		

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: Kurt Hoekstra		
Title: Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: Kurt.Hoekstra@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4-4-2013 Phone: 505-333-3100		

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
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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: Baca Gas Com A # 1 A (30-045-26180)	Facility Type: Gas Well (Blanco Mesa Verde/ Otero Chacra)	
Surface Owner: Private	Mineral Owner:	Lease No. Fee

LOCATION OF RELEASE

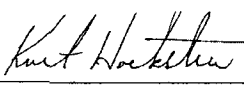

Unit Letter F	Section 26	Township 29N	Range 10W	Feet from the 1475	North/South Line FNL	Feet from the 1685	East/West Line FWL	County San Juan
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Latitude: 36.700190 Longitude: -107.857250

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 3-5-2013
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*The below grade tank was removed at the Baca Gas Com A # 1 A well site due to facility upgrades at the location. The soil 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' spill confirmation standards for benzene, total BTEX and chlorides, but above the 100 ppm-TPH standard at 1400 ppm via USEPA Method 418.1, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated depth to groundwater of less than 50 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.		
Describe Area Affected and Cleanup Action Taken.* Excavation began to remove impacted soils, and groundwater was encountered. A sample was collected of the groundwater and the soil. The ground water sample returned results below WQCC standards, but the soil was not below 100 ppm TPH. Additional excavation was performed, and the water and soil was sampled again. The samples both returned results below the regulatory standards at that time. During the first phase of excavation approximately 60 yards of impacted soil was removed and hauled to IEI land farm. An additional 100 BBL of soil and water was removed by Hydrovac and transported to IEI to complete the excavation. The final extent of the excavation was approximately 22'x15'x8' deep. No further action is required.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 	
Printed Name: Kurt Hoekstra		
Title: Environmental Coordinator	Approval Date: <u>4/4/2013</u>	Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4-4-2013 Phone: 505-333-3100		

nJK 1310129422

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

Lease Name: Baca Gas Com A # 1 A

API No.: 30-045-26180

Description: Unit F, Section 26, Township 29N, Range 10W, 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 20, 2013

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 20, 2013

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

Components	Test Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	< 0.0030 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	0.068 mg/kg
TPH	EPA SW-846 418.1	100	1400 mg/kg
Chlorides	EPA 300.1	250 or background	160 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 1400 PPM, 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 March 1st, 2013; 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 1st, 2013; 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); **N/A**
 - viii. Photo documentation of the site reclamation. **attached**

7012 1010 0002 9433 2946

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For delivery information visit our website at www.usps.com	
MONONA IA 52159	
OFFICIAL USE	
Postage	\$ \$0.46
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Return Receipt Fee (Endorsement Required)	\$2.55
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ \$6.11

0410 AZTEC NM 87410
02 Postmark Here
MAR 01 2013
03/01/2013
USPS

Sent To: Rosalie Stickler
Street, Apt. No., or PO Box No. P.O. Box 306
City, State, ZIP+4 Monona, IA 52159-0306 KH

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 		<p>A. Signature <input checked="" type="checkbox"/> <u>Rich Stickler</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>RICH STICKLER</u> C. Date of Delivery <u>3-4-13</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p><u>Rosalie Stickler</u> <u>P.O. Box 306</u> <u>Monona, IA 52159-0306</u></p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
<p>2. Article Number: (Transfer from service label)</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-1540</p>	

7012 1010 0002 9433 2946

March 1, 2013

Rosalie Stickler,
P O Box 366
Monona, IA 521590366

Re: Baca Gas Com A # 1 A API # 30-045-26180
Unit F, Section 26, Township 29N, Range 10W, San Juan County, New Mexico

Rosalie Stickler,

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

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

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Kurt Hoekstra".

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

Hoekstra, Kurt

From: Hoekstra, Kurt
Sent: Friday, March 01, 2013 10:26 AM
To: Brandon Powell (brandon.powell@state.nm.us)
Subject: BGT Closure Baca Gas Com A # 1 A corrected API #

Hello Brandon I mistakenly put 039 instead of 045 in the API # for this BGT closure. Here is the corrected API # . Thanks

Brandon,

Please accept this email as the required notification for BGT closure activities at the Baca Gas Com A # 1 A well site (API # 30-045-26180) located in Unit F, Section 26, Township 29N, Range 10W, San Juan County, New Mexico. This below grade tank is being closed due to facility upgrades at this well site. Thank you for your time in regards to this matter.

Kurt Hoekstra
EHS Coordinator
XTO Energy
505-333-3202 Office
505-486-9543 Cell
Kurt_Hoekstra@xtoenergy.com



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 15252

Samples Received: 2/27/2013 2:35:00PM

Job Number: 98031-0528

Work Order: P302118

Project Name/Location: Baca Gas Com A #1A

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/5/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Baca Gas Com A #1A
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
05-Mar-13 10:10

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT	P302118-01A	Soil	02/27/13	02/27/13	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Baca Gas Com A #1A
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
05-Mar-13 10:10

BGT
P302118-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Total Petroleum Hydrocarbons by 418.1

Total Petroleum Hydrocarbons	1400	20.0	mg/kg	3.999	1309022	01-Mar-13	01-Mar-13	EPA 418.1		
------------------------------	------	------	-------	-------	---------	-----------	-----------	-----------	--	--

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envirotech-inc.com
laboratory@envirotech-inc.com



XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: Baca Gas Com A #1A Project Number: 98031-0528 Project Manager: Kurt Hockstra	Reported: 05-Mar-13 10:10
---	--	------------------------------

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1309022 - 418 Freon Extraction										
Blank (1309022-BLK1)					Prepared & Analyzed: 01-Mar-13					
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1309022-DUP1)					Source: P302118-01 Prepared & Analyzed: 01-Mar-13					
Total Petroleum Hydrocarbons	1270	20.0	mg/kg		1400			10.1	30	
Matrix Spike (1309022-MS1)					Source: P302118-01 Prepared & Analyzed: 01-Mar-13					
Total Petroleum Hydrocarbons	3070	20.0	mg/kg	2000	1400	83.3	80-120			

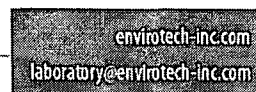
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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Baca Gas Com A #1A
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
05-Mar-13 10:10

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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envirotech-inc.com
laboratory@envirotech-inc.com

CHAIN OF CUSTODY RECORD

15252

Page 6 of 6

Client: XTO			Project Name / Location: BACA Gas Com A# 1A			ANALYSIS / PARAMETERS													
Email results to: JAMES MCDANIEL, KURT HOEKSTRA, LOGAN HIXON			Sampler Name: KURT			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 98031-0528																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl													
BGT	2/27	10:30	P302118-01A	(1) 4oz Jar										X				XX	
Relinquished by: (Signature) <i>Kurt Hoekstra</i>				Date	Time	Received by: (Signature) <i>Uliiango</i>												Date	Time
Relinquished by: (Signature)																		2/27	11:30:35
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			





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

Saturday March 09, 2013

Report Number: L622378

Samples Received: 02/28/13

Client Project:

Description: Baca Gas Com A1A

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

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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

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

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REPORT OF ANALYSIS

March 09, 2013

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

Date Received : February 28, 2013
Description : Baca Gas Com AlA
Sample ID : BGT SAMPLE 5FT
Collected By : Kurt
Collection Date : 02/27/13 10:30

ESC Sample # : L622378-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	160	12.	mg/kg	9056	03/04/13	1
Total Solids	82.8	0.100	%	2540 G-2011	03/02/13	1
Benzene	BDL	0.0030	mg/kg	8021/8015	03/05/13	5
Toluene	BDL	0.030	mg/kg	8021/8015	03/05/13	5
Ethylbenzene	0.051	0.0030	mg/kg	8021/8015	03/05/13	5
Total Xylene	0.017	0.0090	mg/kg	8021/8015	03/05/13	5
TPH (GC/FID) Low Fraction	14.	0.60	mg/kg	GRO	03/05/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.2		% Rec.	8021/8015	03/05/13	5
a,a,a-Trifluorotoluene(PID)	99.3		% Rec.	8021/8015	03/05/13	5
TPH (GC/FID) High Fraction	140	4.8	mg/kg	3546/DRO	03/08/13	1
Surrogate recovery(%)						
o-Terphenyl	44.8		% Rec.	3546/DRO	03/08/13	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 03/09/13 18:52 Printed: 03/09/13 18:52

L622378-01 (DRO) - Previous run also had low SURR recovery. Matrix effect.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L622378-01	WG639822	SAMP	o-Terphenyl	R2575260	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
03/09/13 at 18:52:27

TSR Signing Reports: 288
R5 - Desired TAT

Domestic Water Well Sampling-see L609759 Lobato for tests

Sample: L622378-01 Account: XTORNM Received: 02/28/13 09:00 Due Date: 03/07/13 00:00 RPT Date: 03/09/13 18:52



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L622378

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

March 09, 2013

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG638956	03/02/13 19:09
Chloride	< 10	mg/kg			WG639105	03/04/13 11:37
Benzene	< .0005	mg/kg			WG639479	03/05/13 13:59
Ethylbenzene	< .0005	mg/kg			WG639479	03/05/13 13:59
Toluene	< .005	mg/kg			WG639479	03/05/13 13:59
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG639479	03/05/13 13:59
Total Xylene	< .0015	mg/kg			WG639479	03/05/13 13:59
a,a,a-Trifluorotoluene (FID)		% Rec.	100.6	59-128	WG639479	03/05/13 13:59
a,a,a-Trifluorotoluene (PID)		% Rec.	99.84	54-144	WG639479	03/05/13 13:59
TPH (GC/FID) High Fraction	< 4	mg/kg			WG639822	03/08/13 11:44
o-Terphenyl		% Rec.	74.80	50-150	WG639822	03/08/13 11:44

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	85.0	83.7	1.34	5	L622376-04	WG638956
Chloride	mg/kg	250.	270.	7.69	20	L622761-03	WG639105

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.1	100.	85-115	WG638956
Chloride	mg/kg	200	204.	102.	80-120	WG639105
Benzene	mg/kg	.05	0.0454	90.8	76-113	WG639479
Ethylbenzene	mg/kg	.05	0.0501	100.	78-115	WG639479
Toluene	mg/kg	.05	0.0479	95.7	76-114	WG639479
Total Xylene	mg/kg	.15	0.154	102.	81-118	WG639479
a,a,a-Trifluorotoluene (PID)				99.61	54-144	WG639479
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.24	95.4	67-135	WG639479
a,a,a-Trifluorotoluene (FID)				100.9	59-128	WG639479
TPH (GC/FID) High Fraction	mg/kg	60	44.8	74.7	50-150	WG639822
o-Terphenyl				72.10	50-150	WG639822

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloride	mg/kg	196.	204.	98.0	80-120	4.00	20	WG639105
Benzene	mg/kg	0.0463	0.0454	93.0	76-113	1.97	20	WG639479
Ethylbenzene	mg/kg	0.0504	0.0501	101.	78-115	0.580	20	WG639479
Toluene	mg/kg	0.0480	0.0479	96.0	76-114	0.250	20	WG639479
Total Xylene	mg/kg	0.154	0.154	103.	81-118	0.260	20	WG639479
a,a,a-Trifluorotoluene (PID)				99.79	54-144			WG639479
TPH (GC/FID) Low Fraction	mg/kg	5.33	5.24	97.0	67-135	1.67	20	WG639479

* 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

L622378

12065 Lebanon Rd.
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(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 09, 2013

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
a,a,a-Trifluorotoluene (FID)				100.7		59-128			
TPH (GC/FID) High Fraction	mg/kg	39.0	44.8	65.0		50-150	13.8	20	WG639822
o-Terphenyl				63.00		50-150			WG639822

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
Benzene	mg/kg	0.224	0	.05	89.7	32-137	L622378-01	WG639479
Ethylbenzene	mg/kg	0.221	0.0425	.05	71.6	10-150	L622378-01	WG639479
Toluene	mg/kg	0.224	0	.05	89.7	20-142	L622378-01	WG639479
Total Xylene	mg/kg	0.706	0.0141	.15	92.2	16-141	L622378-01	WG639479
a,a,a-Trifluorotoluene (PID)					99.26	54-144		WG639479
TPH (GC/FID) Low Fraction	mg/kg	30.2	12.4	5.5	64.5	55-109	L622378-01	WG639479
a,a,a-Trifluorotoluene (FID)					96.99	59-128		WG639479

Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref					
Benzene	mg/kg	0.250	0.224	100.	32-137	10.9	39	L622378-01
Ethylbenzene	mg/kg	0.248	0.221	82.0	10-150	11.2	44	L622378-01
Toluene	mg/kg	0.250	0.224	99.8	20-142	10.7	42	L622378-01
Total Xylene	mg/kg	0.784	0.706	103.	16-141	10.5	46	L622378-01
a,a,a-Trifluorotoluene (PID)				101.1	54-144			WG639479
TPH (GC/FID) Low Fraction	mg/kg	27.7	30.2	55.5	55-109	8.53	20	L622378-01
a,a,a-Trifluorotoluene (FID)				97.23	59-128			WG639479

Batch number / Run number / Sample number cross reference

WG638956: R2565717: L622378-01
WG639105: R2568837: L622378-01
WG639479: R2571441: L622378-01
WG639822: R2575260: L622378-01

* * Calculations are performed prior to rounding of reported values.
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March 09, 2013

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.



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

Report Summary

Wednesday March 27, 2013

Report Number: L626880

Samples Received: 03/26/13

Client Project:

Description: Baca Gas Com A 1A

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

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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

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

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REPORT OF ANALYSIS

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

March 27, 2013

Date Received : March 26, 2013
Description : Baca Gas Com A 1A
Sample ID : BACA GC A 1A BOTTOM
Collected By : Kurt Hoekstra
Collection Date : 03/25/13 14:15

ESC Sample # : L626880-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.0	0.100	%	2540 G-2011	03/27/13	1
TPH (GC/FID) Low Fraction	370	63.	mg/kg	8015D/GRO	03/26/13	500
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	92.7		% Rec.	602/8015	03/26/13	500
TPH (GC/FID) High Fraction	220	5.1	mg/kg	3546/DRO	03/27/13	1
Surrogate recovery(%) o-Terphenyl	61.5		% Rec.	3546/DRO	03/27/13	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/27/13 15:11 Printed: 03/27/13 15:11



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REPORT OF ANALYSIS

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

March 27, 2013

Date Received : March 26, 2013
Description : Baca Gas Com A 1A
Sample ID : BACA GC A 1A WATER
Collected By : Kurt Hoekstra
Collection Date : 03/25/13 14:30

ESC Sample # : L626880-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0026	0.0025	mg/l	8021B	03/27/13	5
Toluene	BDL	0.025	mg/l	8021B	03/27/13	5
Ethylbenzene	0.055	0.0025	mg/l	8021B	03/27/13	5
Total Xylene	0.51	0.0075	mg/l	8021B	03/27/13	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021B	03/27/13	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Summary of Remarks For Samples Printed
03/27/13 at 15:11:34

TSR Signing Reports: 288
R2 - Rush: Next Day

Domestic Water Well Sampling-see L609759 Lobato for tests

Sample: L626880-01 Account: XTORNM Received: 03/26/13 09:00 Due Date: 03/27/13 00:00 RPT Date: 03/27/13 15:11

Sample: L626880-02 Account: XTORNM Received: 03/26/13 09:00 Due Date: 03/27/13 00:00 RPT Date: 03/27/13 15:11



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XTO Energy - San Juan Division
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Quality Assurance Report
Level II

L626880

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March 27, 2013

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene (FID)	< .1	mg/kg % Rec. 92.81	59-128	WG652550	03/26/13 16:58
Total Solids	< .1	%		WG652992	03/27/13 10:25
TPH (GC/FID) High Fraction o-Terphenyl	< 4	mg/kg % Rec. 100.0	50-150	WG652938	03/27/13 10:22
Benzene	< .0005	mg/l		WG653091	03/26/13 20:40
Ethylbenzene	< .0005	mg/l		WG653091	03/26/13 20:40
Toluene	< .005	mg/l		WG653091	03/26/13 20:40
Total Xylene	< .0015	mg/l		WG653091	03/26/13 20:40
a,a,a-Trifluorotoluene (PID)		% Rec. 102.0	55-122	WG653091	03/26/13 20:40

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	92.0	92.7	0.568	5	L626736-09	WG652992

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene (FID)	mg/kg	5.5 5.17	94.0 97.96	67-135 59-128	WG652550 WG652550
Total Solids	%	50 50.0	100.	85-115	WG652992
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	60 50.5	84.2 102.0	50-150 50-150	WG652938 WG652938
Benzene	mg/l	.05 0.0486	97.3	79-114	WG653091
Ethylbenzene	mg/l	.05 0.0495	99.0	80-116	WG653091
Toluene	mg/l	.05 0.0497	99.5	79-112	WG653091
Total Xylene	mg/l	.15 0.148	98.4	84-118	WG653091
a,a,a-Trifluorotoluene (PID)			102.2	55-122	WG653091

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene (FID)	mg/kg	5.17 5.17 94.0 98.03	67-135 59-128	0.0200	20	WG652550 WG652550
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	48.5 50.5 81.0 97.90	50-150 50-150	4.05	20	WG652938 WG652938
Benzene	mg/l	0.0506 0.0486 101.	79-114	3.97	20	WG653091
Ethylbenzene	mg/l	0.0521 0.0495 104.	80-116	5.02	20	WG653091
Toluene	mg/l	0.0522 0.0497 104.	79-112	4.78	20	WG653091
Total Xylene	mg/l	0.154 0.148 103.	84-118	4.41	20	WG653091
a,a,a-Trifluorotoluene (PID)			102.0	55-122		WG653091

* Performance of this Analyte is outside of established criteria.

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



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March 27, 2013

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	3.83	1.96	5.5	34.0*	55-109	L626659-01	WG652550
a,a,a-Trifluorotoluene (FID)					93.74	59-128		WG652550
Benzene	mg/l	0.156	0.125	.05	61.4	35-147	L626574-10	WG653091
Ethylbenzene	mg/l	0.204	0.168	.05	72.2	39-141	L626574-10	WG653091
Toluene	mg/l	0.0503	0.00424	.05	92.1	35-148	L626574-10	WG653091
Total Xylene	mg/l	0.189	0.0500	.15	92.6	33-151	L626574-10	WG653091
a,a,a-Trifluorotoluene (PID)					102.7	55-122		WG653091

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	3.57	3.83	29.4*	55-109	6.86	20	L626659-01	WG652550
a,a,a-Trifluorotoluene (FID)				93.77	59-128				WG652550
Benzene	mg/l	0.158	0.156	66.2	35-147	1.51	20	L626574-10	WG653091
Ethylbenzene	mg/l	0.207	0.204	79.2	39-141	1.69	20	L626574-10	WG653091
Toluene	mg/l	0.0530	0.0503	97.6	35-148	5.32	20	L626574-10	WG653091
Total Xylene	mg/l	0.199	0.189	99.1	33-151	5.06	20	L626574-10	WG653091
a,a,a-Trifluorotoluene (PID)				103.0	55-122				WG653091

Batch number / Run number / Sample number cross reference

WG652550: R2596220: L626880-01
WG652992: R2596317: L626880-01
WG652938: R2596438: L626880-01
WG653091: R2596640: L626880-02

- * * Calculations are performed prior to rounding of reported values.
- * Performance of this Analyte is outside of established criteria.
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XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Quality Assurance Report
Level II

Aztec, NM 87410

L626880

March 27, 2013

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.

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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.

[illegible]

pH _____ Temp _____

5040/230-7451 Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 3/25/13	Time: 3:30	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <i>OK</i> (lab use only) <i>TD</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: <i>21.6</i>	Bottles Received: <i>3</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 3/26/13	Time: 0900
			pH Checked		NCF:



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

Report Summary

Tuesday April 02, 2013

Report Number: L627568

Samples Received: 03/29/13

Client Project:

Description: Baca Gas Com H 1A

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

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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

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REPORT OF ANALYSIS

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

April 02, 2013

Date Received : March 29, 2013
Description : Baca Gas Com H 1A
Sample ID : GROUDWATER 8 FT
Collected By : Logan Hixon
Collection Date : 03/28/13 13:00

ESC Sample # : L627568-01

Site ID : PACA GAS COM H 1A

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0030	0.00050	mg/l	8021B	04/01/13	1
Toluene	0.058	0.0050	mg/l	8021B	04/01/13	1
Ethylbenzene	0.012	0.00050	mg/l	8021B	04/01/13	1
Total Xylene	0.34	0.0015	mg/l	8021B	04/01/13	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	96.5		% Rec.	8021B	04/01/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/02/13 08:43 Printed: 04/02/13 09:06



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April 02, 2013

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG653905	04/01/13 12:52
Ethylbenzene	< .0005	mg/l			WG653905	04/01/13 12:52
Toluene	< .005	mg/l			WG653905	04/01/13 12:52
Total Xylene	< .0015	mg/l			WG653905	04/01/13 12:52
a,a,a-Trifluorotoluene (PID)		% Rec.	98.65	55-122	WG653905	04/01/13 12:52

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0472	94.5	79-114	WG653905
Ethylbenzene	mg/l	.05	0.0526	105.	80-116	WG653905
Toluene	mg/l	.05	0.0479	95.7	79-112	WG653905
Total Xylene	mg/l	.15	0.159	106.	84-118	WG653905
a,a,a-Trifluorotoluene (PID)				99.42	55-122	WG653905

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0469	0.0472	94.0	79-114	0.660	20	WG653905
Ethylbenzene	mg/l	0.0520	0.0526	104.	80-116	1.07	20	WG653905
Toluene	mg/l	0.0474	0.0479	95.0	79-112	0.950	20	WG653905
Total Xylene	mg/l	0.159	0.159	106.	84-118	0.520	20	WG653905
a,a,a-Trifluorotoluene (PID)				98.84	55-122			WG653905

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0562	0.00829	.05	95.8	35-147	L627857-01	WG653905
Ethylbenzene	mg/l	0.302	0.301	.05	2.88*	39-141	L627857-01	WG653905
Toluene	mg/l	0.358	0.378	.05	0*	35-148	L627857-01	WG653905
Total Xylene	mg/l	1.01	1.06	.15	0*	33-151	L627857-01	WG653905
a,a,a-Trifluorotoluene (PID)					98.82	55-122		WG653905

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0536	0.0562	90.6	35-147	4.71	20	L627857-01	WG653905
Ethylbenzene	mg/l	0.288	0.302	0*	39-141	4.81	20	L627857-01	WG653905
Toluene	mg/l	0.341	0.358	0*	35-148	4.85	20	L627857-01	WG653905
Total Xylene	mg/l	0.953	1.01	0*	33-151	5.38	20	L627857-01	WG653905
a,a,a-Trifluorotoluene (PID)				96.68	55-122				WG653905

Batch number /Run number / Sample number cross reference

WG653905: R2600738: L627568-01

* * 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

L627568

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

April 02, 2013

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.

Company Name/Address: XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410			Billing Information: XTO Energy Inc Accounts Payable PO Box 6501 Englewood, CO 80155			Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="width: 20px; height: 100px; background-color: #ccc; transform: rotate(-90deg); transform-origin: left top; position: relative;"> 8021 </div> <div style="width: 100%; height: 100px; background-color: #ccc;"></div> </div>			Chain of Custody Page ____ of ____ ESC L.A.B S.C.I.E.N.C.E.S 12065 Lebanon Road Mt. Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859 E100		
Report to: <u>Logan Hixon, James McDaniel, Kevin MacLester</u>			Email to: _____								
Project Description: <u>Baca Gas Com A#1A</u>			City/State Collected: <u>NM</u>								
Phone: <u>(505) 333-3100</u> FAX: _____		Client Project #: _____		ESC Key: _____							
Collected by: (print) <u>Logan Hixon</u>		Site/Facility ID#: <u>Baca Gas Com A#1A</u>		P.O.#: _____							
Collected by: (signature) <u>[Signature]</u> Immediately Packed on Ice N <u>(X)</u>		<u>Rush?</u> (Lab MUST Be Notified) <input type="checkbox"/> Same Day..... 200% <input checked="" type="checkbox"/> Next Day..... 100% <input type="checkbox"/> Two Day..... 50% <input type="checkbox"/> Three Day..... 25%		Date Results Needed: _____ Email? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes							
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; height: 100px; background-color: #ccc; transform: rotate(-90deg); transform-origin: left top; position: relative;"> 1208 </div> <div style="width: 100%; height: 100px; background-color: #ccc;"></div> </div>		
<u>Groundwater</u>			<u>grab</u>	<u>GW</u>	<u>8'</u>	<u>3-28-13</u>	<u>13:00</u>	<u>2-40</u>			
Remarks/Contaminant			Sample # (lab only)								
			<u>U627568-01</u> <u>U627568</u>								

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

pH _____ Temp _____

Remarks:

Flow _____ Other _____

504006367440

Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>3-28-13</u>	Time: <u>14:00</u>	Received by: (Signature) <u>[Signature]</u>		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Condition: <u>Lab use only</u> <u>(X)</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date: _____	Time: _____	Received by: (Signature) <u>[Signature]</u>		Temp: <u>3.7</u>	Bottles Received: <u>2</u>	CoC Seals Intact: <u>Y</u> <u>N</u> <u>NA</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date: _____	Time: _____	Received for lab by: (Signature) <u>[Signature]</u>		Date: <u>3/29/13</u>	Time: <u>0900</u>	pH Checked: <u>NCF</u>	



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

Report Summary

Tuesday April 02, 2013

Report Number: L627571

Samples Received: 03/29/13

Client Project:

Description: BACA GAS COM A 1A

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

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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

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

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REPORT OF ANALYSIS

April 02, 2013

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

Date Received : March 29, 2013
Description : BACA GAS COM A 1A
Sample ID : BOTTOM 8 FT
Collected By : Logan Hixon
Collection Date : 03/28/13 10:30

ESC Sample # : L627571-01

Site ID : BACA GAS COM A 1A

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.0	0.100	%	2540 G-2011	03/30/13	1
TPH (GC/FID) Low Fraction	56.	25.	mg/kg	8015D/GRO	03/31/13	200
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	602/8015	03/31/13	200
TPH (GC/FID) High Fraction	12.	5.1	mg/kg	3546/DRO	04/01/13	1
Surrogate recovery(%) o-Terphenyl	82.7		% Rec.	3546/DRO	04/01/13	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: 04/02/13 09:50 Printed: 04/02/13 09:55



YOUR LAB OF CHOICE

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James McDaniel
382 County Road 3100

Aztec, NM 87410

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Level II

L627571

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April 02, 2013

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%		WG653692	03/30/13 14:54
TPH (GC/FID) Low Fraction	< .1	mg/kg		WG653671	03/30/13 21:54
a,a,a-Trifluorotoluene(FID)		% Rec. 95.85	59-128	WG653671	03/30/13 21:54

Analyte	Units	Result	Duplicate Duplicate RPD	Limit	Ref Samp	Batch
Total Solids	%	90.0	90.3 0.0336	5	L627519-01	WG653692

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Total Solids	%	50 50.0	99.9	85-115	WG653692
TPH (GC/FID) Low Fraction	mg/kg	5.5 5.69	104.	67-135	WG653671
a,a,a-Trifluorotoluene(FID)			102.5	59-128	WG653671

Analyte	Units	Result	Laboratory Control Sample Duplicate Ref %Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.77	5.69 105.	67-135	1.34	20	WG653671
a,a,a-Trifluorotoluene(FID)			102.3	59-128			WG653671

Analyte	Units	MS Res	Matrix Spike Ref Res TV	% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	21.8	0 5.5	79.2	55-109	L627191-37	WG653671
a,a,a-Trifluorotoluene(FID)				97.49	59-128		WG653671

Analyte	Units	MSD	Matrix Spike Duplicate Ref %Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	21.5	21.8 78.1	55-109	1.47	20	L627191-37	WG653671
a,a,a-Trifluorotoluene(FID)			97.62	59-128				WG653671

Batch number /Run number / Sample number cross reference

WG653692: R2599698: L627571-01
WG653671: R2599800: L627571-01
WG653756: R2600900: L627571-01

* * 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.'



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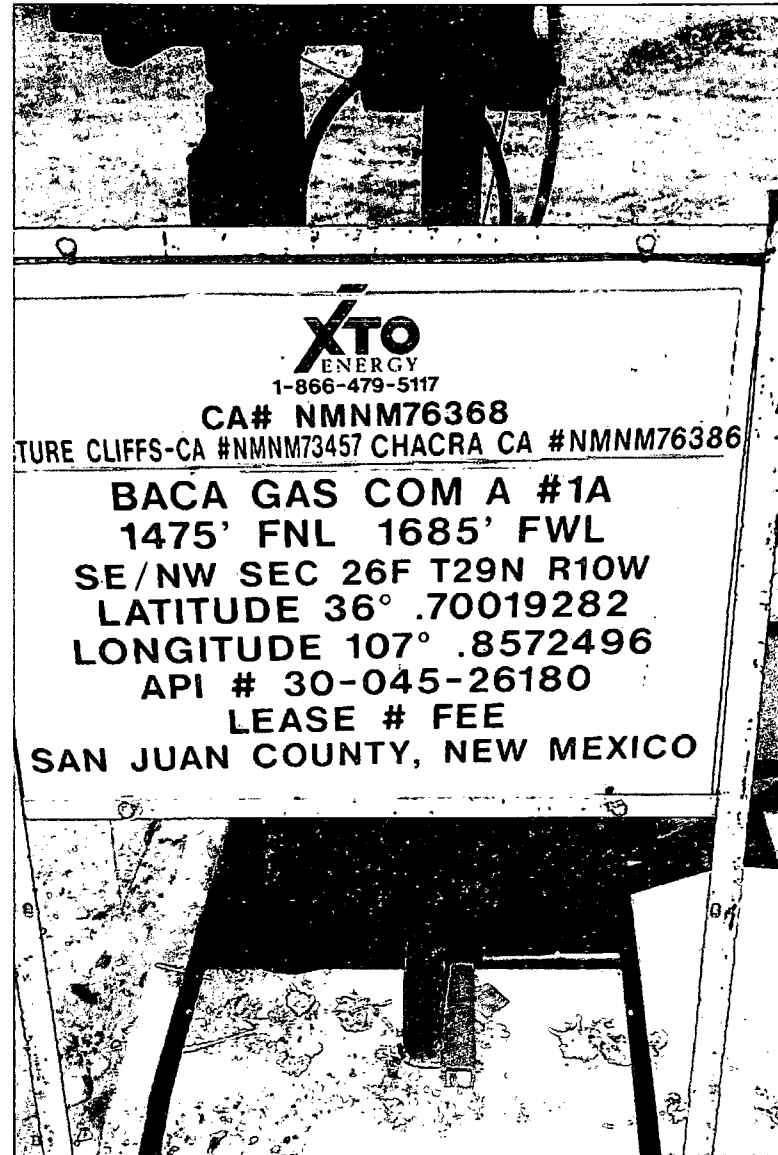
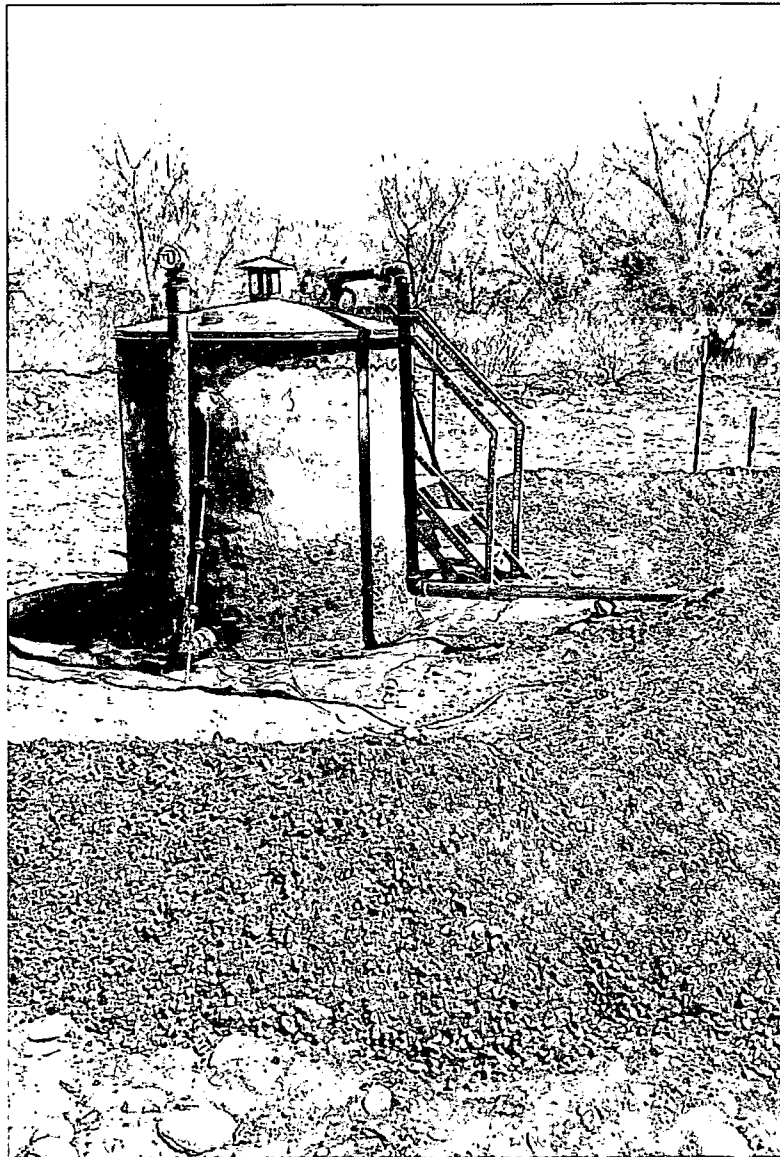
April 02, 2013

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Well Below Tank Inspection Report

04/04/2013

Division Denver
 Dates -
 06/01/2008 - 04/01/2013
 Type Route Stop
 Type Value B

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township			
DEN NM Run 53A	BACA GAS COM A 001A	Weaver, Chaz	Bramwell, Chris	BACA GC A 01A	3004526180	26	10W	29N			
InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes
m clarence	08/29/2008	10:00						3			
m clarence	08/04/2009	10:00	No	No	No	No	No	3	Well Water Pit	Above Ground	
d ray	01/14/2010	10:00	No	No	No	No	No	3	Well Water Pit	Above Ground	
d ray	02/24/2010	10:00	No	No	No	No	No	3	Well Water Pit	Above Ground	
d ray	03/08/2010	10:00	No	No	No	No	No	2	Well Water Pit	Above Ground	
d ray	04/07/2010	10:00	No	No	No	No	No	2	Well Water Pit	Above Ground	
d ray	05/05/2010	10:00	No	No	No	No	No	2	Well Water Pit	Above Ground	
DR	06/03/2010	01:37	No	No	No	No	No	1	Well Water Pit	Above Ground	
rf	07/06/2010	01:37	No	No	No	No	No	1	Well Water Pit	Above Ground	
DR	08/10/2010	09:20	No	No	No	No	No	1	Well Water Pit	Above Ground	
DR	09/07/2010	09:20	No	No	No	No	No	1	Well Water Pit	Above Ground	
RF	12/19/2010	10:51	No	No	No	No	No	2	Well Water Pit	Above Ground	
RF	01/28/2011	12:39	No	No	No	No	No	1	Well Water Pit	Above Ground	
DR	02/28/2011	12:39	No	No	No	No	No	1	Well Water Pit	Above Ground	
RF	03/13/2011	08:00	No	No	No	No	No	2	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.
RF	05/04/2011	02:09	No	No	No	No	No	2	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.
RF	6/7/2011	11:35	No	No	No	No	No	1	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.
RF	7/7/2011	2:29	No	No	No	No	No	1	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.
FB	8/25/2011	8:58	No	No	No	No	No	3	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.
FB	9/7/2011	10:30	No	No	No	No	No	1	Well Water Pit	Above Gro	Rust developing around bottom of pit. Needs to be repainted.

FB	10/20/2011	9:20	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	11/15/2011	11:35	No	No	No	No	No	1	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	12/21/2011	12:10	No	No	No	No	No	2	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	1/4/2012	8:55	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	2/24/2012	11:46	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	3/21/2012	9:23	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	4/12/2012	11:48	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	5/3/2012	1:25	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	6/20/2012	9:32	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	7/5/2012	2:42	No	No	No	No	No	2	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	8/21/2012	3:00	No	No	No	No	No	3	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
FB	9/26/2012	12:50	No	No	No	No	No	2	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
cw	1/15/2013	1:22	No	No	No	No	No	2	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
cw	2/6/2013	2:32	No	No	No	No	No	2	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.
cw	3/7/2013	8:40	No	No	No	No	No	4	Well Water Pit	Above Gro Rust developing around bottom of pit. Needs to be repainted.



XTO Energy On-Site Form

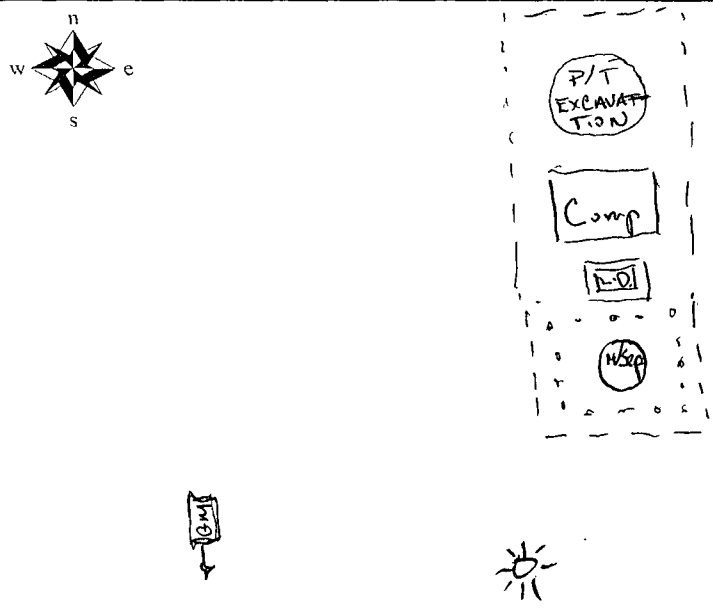
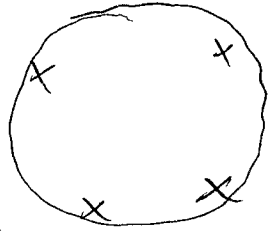
Well Name BACA GAS COM A# 1A API # 30-045-26180

Section 26F Township 29N Range 10W County SAN JUAN

Contractors On-Site _____ Time On-Site 10:00 Time Off-Site 10:45

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

Land Use (Grazing / Residential / Tribe _____) Excavation 10' x _____ x 5' deep

 <p>Site Diagram</p>	<p>Buried P/T EXCAVATION</p>  <p>10' DIA x 5' DEEP Sample Location</p> <p>Sample Location</p>
<p>Comments <u>Sample BGT EXCAVATION</u> <u>GROUNDEWATER REACHED</u></p>	<p>Number of Photos Taken _____</p>

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
10:30		BGT Composite	Soil	418.1, 8015, 81221	CHLORIDES

Name (Print) KURT HOEKSTRA

Date 2-27-13

Name (Signature) Kurt Hoekstra

Company XTO



XTO Energy On-Site Form

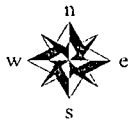
Well Name BACA Gas Com A#1A API # 30-045-26180

Section 26F Township 29N Range 10W County SAN JUAN

Contractors On-Site _____ Time On-Site 8:15 Time Off-Site _____

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

Land Use (Grazing / Residential / Tribe _____) Excavation 15' x 12' x 7' deep

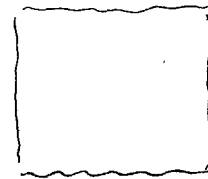


P/T Excavation

7' deep 12'
15'

Comp

100



Sample Location

Site Diagram

Sample Location

Comments 60 yds soil hauled, 30 BBLs WATER

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
11:30		BOTTOM	Wet Soil	292	
11:40		BLACK SOIL		1040	
14:15		Bottom comp	Saturated sand	—	8015, 8021 ESC
14:30		Water sample	bottom	—	8021

Name (Print) KURT HOEKSTRA

Date 3-25-13

Name (Signature) Kurt Hoekstra Company XTO



XTO Energy On-Site Form

Well Name Barn gas com A #1A API # 30-045-26180
Section 26F Township 29 Range 10 County ST
Contractors On-Site Nelson Reucy Time On-Site 9:30 Time Off-Site 1:45
Spill Amount — bbls Spilled (Oil/Produced W/Other —) RCVRD —
Land Use (Range / Residential / Tribe —) Excavation 22 x 15 x 7.5 deep

<p>Site Diagram</p>	<p>Sample Location</p>
<p>Comments</p>	<p>Number of Photos Taken</p>

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	—	NA
10:30	(1)	Bottom 7.5'	Sand/silt	—	80/5
12:00	(2)	Water ground	groundwater	—	8021

Name (Print) Logan Hixon Date 7-28-13
Name (Signature) Logan Hixon Company XTO