

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.

2008 DEC 8 PM 4 44

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: Gerk Gas Com B# 1M  
API Number: 30-045-24953 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr N Section 19 Township 29N Range 09W County: San Juan  
Center of Proposed Design: Latitude 36.70432 Longitude 107.82347 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 \_\_\_\_\_

OIL CONS. DIV DIST. 3

NOV 22 2013

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

4.  
☒ Below-grade tank: Subsection I of 19.15.17.11 NMAC  
Volume: 95 bbl Type of fluid: Produced Water  
Tank Construction material: Steel  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner  
Liner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

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

6.  
**Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

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

7.  
**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

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

8.  
**Signs:** Subsection C of 19.15.17.11 NMAC

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

9.  
**Administrative Approvals and Exceptions:**

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

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

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

10.  
**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

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

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.

☒ Yes ☐ 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).

☐ Yes ☒ 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*)

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ 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*)

☐ Yes ☐ No

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☒ 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.

☐ Yes ☒ 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.

☐ Yes ☒ No

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

Within the area overlying a subsurface mine.

☐ Yes ☒ No

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

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Within a 100-year floodplain.

☐ Yes ☒ No

- FEMA map

11.

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

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

12.

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

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

13.

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

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
☐ Climatological Factors Assessment  
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Quality Control/Quality Assurance Construction and Installation Plan  
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
☐ Emergency Response Plan  
☐ Oil Field Waste Stream Characterization  
☐ Monitoring and Inspection Plan  
☐ Erosion Control Plan  
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

**Proposed Closure:** 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Closed-loop System  
☐ Alternative  
 Proposed Closure Method: ☒ Waste Excavation and Removal  
☐ Waste Removal (Closed-loop systems only)  
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)  
☐ In-place Burial ☐ On-site Trench Burial  
☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  
☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  
☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  
☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

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

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kim Champlin Title: Environmental Representative  
 Signature: Kim Champlin Date: 12-04-08  
 e-mail address: kim\_champlin@xtoenergy.com Telephone: (505) 333-3100

20.

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

OCD Representative Signature: [Signature] Approval Date: 11/25/2013  
Compliance Officer  
 Title: Senior Hydrologist OCD Permit Number: [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: 11-20-13

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: 11-20-13  
 e-mail address: Kurt.Hoekstra@xtoenergy.com Telephone: 505-333-3100

District I  
1625 N. French Dr., Hobbs, NM 88240  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company: XTO Energy, Inc.	Contact: Kurt Hoekstra
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100
Facility Name: Gerk Gas Com B # 1M (30-045-24953)	Facility Type: Gas Well (Basin Dakota/ Mesaverde)

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

Unit Letter N	Section 19	Township 29N	Range 9W	Feet from the 160	North/South Line FSL	Feet from the 790	East/West Line FWL	County San Juan
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Latitude: 36.70432 Longitude: -107.82347

**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: 10-22-2013 2:30 pm
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 Gerk Gas Com B # 1M 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 2130 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 2130 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 ☐

Date: 11-20-2013

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.  
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) 333-3100	
Facility Name: Gerk Gas Com B # 1M (30-045-24953)	Facility Type: Gas Well (Basin Dakota/ Mesaverde)	
Surface Owner: Private	Mineral Owner:	Lease No. Fee

**LOCATION OF RELEASE**


Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	29N	9W	160	FSL	790	FWL	San Juan

Latitude: 36.70432 Longitude: -107.82347

**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: 10-22-2013 2:30 pm
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 Gerk Gas Com B # 1M 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 2130 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.* The below grade tank closure sample was analyzed for DRO/GRO via USEPA Method 8015, returning results of < 29.9 44 mg/kg and < 4.99 mg/kg respectively. This is below the 100 ppm TPH closure standard determined for this site. No further action is required regarding this incident.		
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: 11-20-2013	Phone: 505-333-3100	

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

**Lease Name: Gerk Gas Com B # 1M**

**API No.: 30-045-24953**

**Description: Unit N, Section 19, Township 29N, Range 9W, 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 November 20<sup>th</sup>, 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 November 20<sup>th</sup>, 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	< 0.0026 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	0.0391 mg/kg
TPH	EPA SW-846 418.1	100	2130 mg/kg
Chlorides	EPA 300.1	250 or background	130 mg/kg
TPH	EPA 8015	100	< 34.89 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 2130 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 October 21<sup>st</sup>, 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 October 21<sup>st</sup>, 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); **per Landowner Specifications**
  - viii. Photo documentation of the site reclamation. **attached**

7009 2250 0003 8649 1994

<b>U.S. Postal Service</b> <b>CERTIFIED MAIL™ RECEIPT</b> (Domestic Mail Only; No Insurance Coverage Provided)		
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>		
<b>OFFICIAL USE</b> SANTA FE NM 87507		
Postage	\$ 0.92	0410
Certified Fee	\$3.10	08 OCT 1 2013 Postmark Here
Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.02	10/21/2013
Sent To <b>Mark Chavez</b> Street, Apt. No., or PO Box No. <b>1073 Calle Don Roberto</b> City, State, ZIP+4 <b>Santa Fe, nm 87507 KH</b>		
PS Form 3800, August 2006 See Reverse for Instructions		

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
■ 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.		A. Signature <b>X Mark</b>	
1. Article Addressed to:  <b>Mark Chavez</b> <b>1073 Calle Don Roberto</b> <b>Santa Fe, nm 87507</b>		B. Received by (Printed Name) C. Date of Delivery <b>OCT 25 2013</b>	
2. Article Number (Transfer from service label)		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
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.		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
7009 2250 0003 8649 1994		102595-02-M-1540	

October 21<sup>st</sup>, 2013

Mark Chavez,  
1073 Calle Don Roberto  
Santa Fe , NM. 87507

Re: Gerk Gas Com B # 1 M API # 30-045-24953

Unit N, Section 19, Township 29N, Range 9W, San Juan County, New Mexico

Mark Chavez ,

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

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

Respectfully Submitted,

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

Kurt Hoekstra

Environmental Coordinator  
XTO Energy, Inc.  
Western Division

## Hoekstra, Kurt

---

**From:** Hoekstra, Kurt  
**Sent:** Monday, October 21, 2013 1:17 PM  
**To:** Brandon Powell (brandon.powell@state.nm.us)  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hixon, Logan  
**Subject:** Gerk Gas Com B # 1 M - BGT Closure

Brandon,

Please accept this email as the required 72 hour notification for BGT closure activities at the Gerk Gas Com B # 1M well site (30-045-24953) located in Section 19, Township 29N, Range 9W, San Juan County, New Mexico. This BGT is being closed due to upgrades at this location. 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](mailto:Kurt_Hoekstra@xtoenergy.com)



## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0411

Samples Received: 10/21/2013 11:35:00AM

Job Number: 98013-0528

Work Order: P310077

Project Name/Location: Gerk GC B #1M

Entire Report Reviewed By:

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

Date: 10/22/13

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: Gerk GC B #1M  
Project Number: 98013-0528  
Project Manager: Kurt Hoekstra

**Reported:**  
22-Oct-13 14:29

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Cellar	P310077-01A	Soil	10/21/13	10/21/13	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

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



XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: Gerk GC B #1M Project Number: 98013-0528 Project Manager: Kurt Hoekstra	Reported: 22-Oct-13 14:29
---	---	------------------------------

**BGT Cellar**  
**P310077-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Petroleum Hydrocarbons by 418.1</b>									
Total Petroleum Hydrocarbons	2130	20.0	mg/kg	1	1343004	10/21/13	10/21/13	EPA 418.1	

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XTO Energy Inc.	Project Name:	Gerk GC B #1M	<b>Reported:</b> 22-Oct-13 14:29
382 CR 3100	Project Number:	98013-0528	
Aztec NM, 87410	Project Manager:	Kurt Hoekstra	

### 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 1343004 - 418 Freon Extraction

<b>Blank (1343004-BLK1)</b>		Prepared & Analyzed: 21-Oct-13							
Total Petroleum Hydrocarbons	ND	20.0	mg/kg						
<b>Duplicate (1343004-DUP1)</b>		<b>Source: P310068-01</b>		Prepared & Analyzed: 21-Oct-13					
Total Petroleum Hydrocarbons	676	20.0	mg/kg		656			3.02	30
<b>Matrix Spike (1343004-MS1)</b>		<b>Source: P310068-01</b>		Prepared & Analyzed: 21-Oct-13					
Total Petroleum Hydrocarbons	2890	20.0	mg/kg	2000	656	112	80-120		

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: Gerk GC B #1M  
Project Number: 98013-0528  
Project Manager: Kurt Hoekstra

**Reported:**  
22-Oct-13 14:29

#### 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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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

Kurt Hoekstra  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

### Report Summary

Wednesday October 23, 2013

Report Number: L664314

Samples Received: 10/22/13

Client Project: 30-045-24953

Description: Gerk Gas Com B# 1M

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.

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.



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Est. 1970

# REPORT OF ANALYSIS

October 23, 2013

Kurt Hoekstra  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

Date Received : October 22, 2013  
Description : Gerk Gas Com B# 1M  
Sample ID : FARKH-102113-1045  
Collected By : Kurt Hoekstra  
Collection Date : 10/21/13 10:45

ESC Sample # : L664314-01

Site ID :

Project # : 30-045-24953

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	130	10.	mg/kg	9056	10/22/13	1
Total Solids	94.5	0.100	%	2540 G-2011	10/23/13	1
Benzene	BDL	0.0026	mg/kg	8021B	10/23/13	5
Toluene	BDL	0.026	mg/kg	8021B	10/23/13	5
Ethylbenzene	BDL	0.0026	mg/kg	8021B	10/23/13	5
Total Xylene	BDL	0.0079	mg/kg	8021B	10/23/13	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021B	10/23/13	5

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: 10/23/13 14:06 Printed: 10/23/13 14:06

Summary of Remarks For Samples Printed  
10/23/13 at 14:06:32

TSR Signing Reports: 288  
R2 - Rush: Next Day

Domestic Water Well Sampling-see L609759 Lobato for tests EDD's on ALL projects email James,  
Kurt and Logan all reports

Sample: L664314-01 Account: XTORNM Received: 10/22/13 09:00 Due Date: 10/23/13 00:00 RPT Date: 10/23/13 14:06



**YOUR LAB-OF CHOICE**

XTO Energy - San Juan Division  
Kurt Hoekstra  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L664314

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

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October 23, 2013

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Chloride	< 10	mg/kg			WG688280	10/22/13 13:15
Benzene	< .0005	mg/kg			WG688259	10/22/13 15:12
Ethylbenzene	< .0005	mg/kg			WG688259	10/22/13 15:12
Toluene	< .005	mg/kg			WG688259	10/22/13 15:12
Total Xylene	< .0015	mg/kg			WG688259	10/22/13 15:12
a,a,a-Trifluorotoluene(PID)		% Rec.	101.0	54-144	WG688259	10/22/13 15:12
Total Solids	< .1	%			WG688295	10/23/13 06:27

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	20.0	20.0	0.0	20	L664312-02	WG688280
Total Solids	%	71.4	72.3	1.29	5	L664321-05	WG688295

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chloride	mg/kg	200	173.	86.5	80-120	WG688280
Benzene	mg/kg	.05	0.0369	73.8	70-130	WG688259
Ethylbenzene	mg/kg	.05	0.0397	79.5	70-130	WG688259
Toluene	mg/kg	.05	0.0385	77.1	70-130	WG688259
Total Xylene	mg/kg	.15	0.120	80.1	70-130	WG688259
a,a,a-Trifluorotoluene(PID)				99.90	54-144	WG688259
Total Solids	%	50	50.1	100.	85-115	WG688295

Analyte	Units	Result	Laboratory Control Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
Chloride	mg/kg	174.	173.	87.0	80-120	0.576	20	WG688280
Benzene	mg/kg	0.0358	0.0369	72.0	70-130	3.03	20	WG688259
Ethylbenzene	mg/kg	0.0386	0.0397	77.0	70-130	2.95	20	WG688259
Toluene	mg/kg	0.0371	0.0385	74.0	70-130	3.73	20	WG688259
Total Xylene	mg/kg	0.117	0.120	78.0	70-130	2.90	20	WG688259
a,a,a-Trifluorotoluene(PID)				100.0	54-144			WG688259

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chloride	mg/kg	581.	120.	500	92.0	80-120	L664314-01	WG688280
Benzene	mg/kg	0.178	0.000301	.05	71.0	49.7-127	L663950-01	WG688259
Ethylbenzene	mg/kg	0.181	0.000631	.05	72.0	40.8-141	L663950-01	WG688259
Toluene	mg/kg	0.181	0.000752	.05	72.0	49.8-132	L663950-01	WG688259
Total Xylene	mg/kg	0.542	0.00342	.15	72.0	41.2-140	L663950-01	WG688259
a,a,a-Trifluorotoluene(PID)					99.90	54-144		WG688259

\* 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  
Kurt Hoekstra  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L664314

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October 23, 2013

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Chloride	mg/kg	579.	581.	91.8	80-120	0.345	20	L664314-01	WG688280
Benzene	mg/kg	0.173	0.178	69.2	49.7-127	2.54	23.5	L663950-01	WG688259
Ethylbenzene	mg/kg	0.183	0.181	73.1	40.8-141	1.41	23.8	L663950-01	WG688259
Toluene	mg/kg	0.179	0.181	71.3	49.8-132	0.930	23.5	L663950-01	WG688259
Total Xylene	mg/kg	0.547	0.542	72.4	41.2-140	0.790	23.7	L663950-01	WG688259
a,a,a-Trifluorotoluene (PID)				99.80	54-144				WG688259

Batch number / Run number / Sample number cross reference

WG688280: R2843606: L664314-01

WG688259: R2843625: L664314-01

WG688295: R2843923: L664314-01

\* \* 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  
Kurt Hoekstra  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L664314

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

October 23, 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.



## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0446

Samples Received: 11/11/2013 11:15:00AM

Job Number: 98031-0528

Work Order: P311025

Project Name/Location: Gerk GC B #1M

Entire Report Reviewed By:

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

Date: 11/14/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 11/14/13 9:49 am

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: Gerk GC B #1M  
Project Number: 98031-0528  
Project Manager: Kurt Hoekstra

**Reported:**  
14-Nov-13 09:58

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Closure	P311025-01A	Soil	11/11/13	11/11/13	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

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laboratory@envirotech-inc.com



XTO Energy Inc.  
382 CR 3100  
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Project Number: 98031-0528  
Project Manager: Kurt Hoekstra

Reported:  
14-Nov-13 09:58

**BGT Closure**  
**P311025-01 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1346018	11/13/13	11/13/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1346017	11/13/13	11/13/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg			[CALC]	11/13/13	11/13/13	EPA 8015D	

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: Gerk GC B #1M Project Number: 98031-0528 Project Manager: Kurt Hoekstra	Reported: 14-Nov-13 09:58
---	---	------------------------------

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1346017 - DRO Extraction EPA 3550C</b>										
<b>Blank (1346017-BLK1)</b>				Prepared & Analyzed: 13-Nov-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1346017-DUP1)</b>				Source: P311025-01 Prepared & Analyzed: 13-Nov-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
<b>Matrix Spike (1346017-MS1)</b>				Source: P311025-01 Prepared & Analyzed: 13-Nov-13						
Diesel Range Organics (C10-C28)	258		mg/L	250	16.7	96.5	75-125			

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XTO Energy Inc.  
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Project Name: Gerk GC B #1M  
Project Number: 98031-0528  
Project Manager: Kurt Hoekstra

Reported:  
14-Nov-13 09:58

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1346018 - Purge and Trap EPA 5030A</b>										
<b>Blank (1346018-BLK1)</b>				Prepared & Analyzed: 13-Nov-13						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
<b>Duplicate (1346018-DUP1)</b>				Source: P311025-01 Prepared & Analyzed: 13-Nov-13						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
<b>Matrix Spike (1346018-MS1)</b>				Source: P311025-01 Prepared & Analyzed: 13-Nov-13						
Gasoline Range Organics (C6-C10)	0.43		mg/L	0.450	0.08	78.7	75-125			

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: Gerk GC B #1M  
Project Number: 98031-0528  
Project Manager: Kurt Hoekstra

**Reported:**  
14-Nov-13 09:58

#### 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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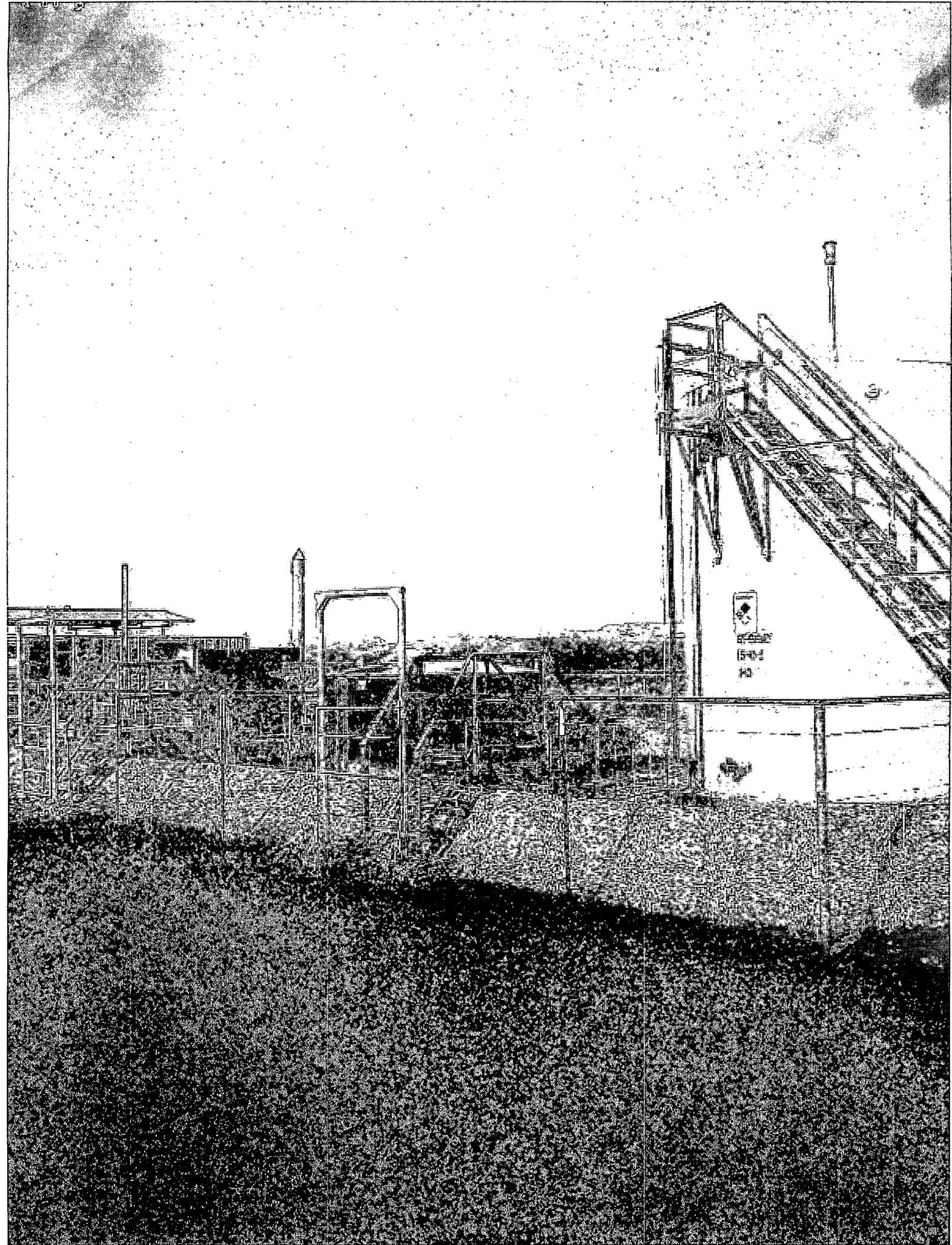
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Rush

		Quote Number		Page ____ of ____		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">TPH 8015 GED-DRO</div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>						Lab Information			
		XTO Contact <i>KURT HOEKSTRA</i>		XTO Contact Phone # <i>486-9543</i>								<i>98031-0528</i>			
		Email Results to: <i>JAMES, KURT, LOGAN</i>													
Well Site/Location <i>GERK GC B#1M</i>		API Number <i>30-045-24953</i>		Test Reason <i>BGT CLOSURE</i>								<b>Office Abbreviations</b> Farmington = FAR Durango = DUR Bakken = BAK Raton = RAT Piceance = PC Roosevelt = RSV La Barge = LB Orangeville = OV			
Collected By <i>KURT</i>		Samples on Ice <i>(N)</i>		Turnaround											
Company <i>XTO</i>		QA/QC Requested <i>Y</i>		<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Next Day <i>Rush</i> <input type="checkbox"/> Two Day <input type="checkbox"/> Three Day <input type="checkbox"/> Std. 5 Bus. Days (by contract)											
Signature <i>Kurt Hoekstra</i>		Gray Areas for Lab Use Only		Date Needed											
Sample ID		Sample Name		Media	Date	Time	Preservative	No. of Conts.	Sample Number <i>P311025-01</i>						
<i>FARJH-11113-1030</i>		<i>BGT CELLAR</i>		<i>S</i>	<i>11/11</i>	<i>10:30</i>	<i>ON ICE</i>	<i>1</i>							
Media : Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT															
Relinquished By: (Signature) <i>Kurt Hoekstra</i>				Date: <i>11-11-13</i>		Time: <i>11:15</i>		Received By: (Signature)				Number of Bottles: <i>1</i>		Sample Condition: <i>Cool/Intact</i>	
Relinquished By: (Signature)				Date:		Time:		Received By: (Signature)				Temperature:		Other Information: <i>RUSH</i>	
Relinquished By: (Signature)				Date:		Time:		Received for Lab by: (Signature) <i>Debra J. Z...</i>				Date: <i>11/11/13</i>			
Comments															

\* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200







# Well Below Tank Inspection Report

11/05/2013

Division Denver  
Dates -  
06/01/2008 - 11/01/2013  
Type Route Stop  
Type Value G

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township			
DEN NM Run 45	GERK GAS COM B 001M	Velarde, Jose	Bramwell, Chris	GERK GC B 01M	3004524953	19	9W	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	02:00						2	Well Water Pit	Below Ground	
d ray	01/16/2010	11:45	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	02/12/2010	12:10	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	03/09/2010	12:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	04/20/2010	12:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	05/20/2010	12:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	06/09/2010	01:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
d ray	07/27/2010	01:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
DR	08/10/2010	01:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
DR	09/07/2010	01:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
DR	12/22/2010	01:00	No	No	No	No	No	2	Well Water Pit	Below Ground	
RF	01/29/2011	10:52	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	02/28/2011	10:52	No	No	No	No	No	3	Well Water Pit	Below Ground	
RF	03/23/2011	02:31	No	No	No	No	No	3	Well Water Pit	Below Ground	
RF	04/07/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	05/10/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	6/10/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	7/11/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	9/13/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	10/25/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
DR	11/3/2011	11:49	No	No	No	No	No	3	Well Water Pit	Below Ground	
JV	1/3/2012	3:01	No	No	No	No	No	3	Well Water Pit	Below Ground	
JV	3/29/2012	1:47	No	No	No	No	No	3	Well Water Pit	Below Ground	
JV	4/11/2012	1:58	No	No	No	No	No	1	Well Water Pit	Below Ground	
JV	5/11/2012	1:34	No	No	No	No	No	2	Well Water Pit	Below Ground	
JV	6/7/2012	2:14	No	No	No	No	No	2	Well Water Pit	Below Ground	
JV	7/6/2012	11:12	No	No	No	No	No	2	Well Water Pit	Below Ground	
JV	8/10/2012	11:10	No	No	No	No	No	1	Well Water Pit	Below Ground	
JV	9/4/2012	9:21	No	No	No	No	No	3	Well Water Pit	Below Ground	
JV	10/1/2012	2:10	No	No	No	No	No	3	Well Water Pit	Below Ground	
JV	11/7/2012	10:18	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	12/4/2012	9:00	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	1/16/2013	8:12	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	2/15/2013	2:54	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	3/1/2013	1:55	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	4/15/2013	11:08	No	No	No	No	No	3	Well Water Pit	Below Ground	JV
JV	5/15/2013	10:35	No	No	No	No	No	1	Well Water Pit	Below Ground	JV
JV	6/7/2013	11:57	No	No	No	No	No	1	Well Water Pit	Below Ground	JV
JV	7/3/2013	1:49	No	No	No	No	No	1	Well Water Pit	Below Ground	JV
JV	8/22/2013	11:27	No	No	No	No	No	2	Well Water Pit	Below Ground	JV
JV	9/18/2013	9:34	No	No	No	No	No	2	Well Water Pit	Below Ground	JV
JV	10/9/2013	1:09	No	No	No	No	No	2	Well Water Pit	Below Ground	JV