

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

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

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

Operator	XTO Energy, Inc.	OGRID #.	5380
Address.	382 Road 3100, Aztec, New Mexico 87410		
Facility or well name	Garcia Gas Com B # 1 M		
API Number	30-045-30834	OCD Permit Number	
U/L or Qtr/Qtr	O	Section	21
		Township	29N
		Range	10W
		County	San Juan
Center of Proposed Design. Latitude	36 70639	Longitude	-107 88639
		NAD	<input type="checkbox"/> 1927 <input checked="" type="checkbox"/> 1983
Surface Owner:	<input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment		

2	
<input type="checkbox"/> <b>Pit:</b> Subsection F or G of 19 15 17 11 NMAC	RCVD JUN 13 '12 OIL CONS. DIV. DIST. 3
Temporary: <input type="checkbox"/> Drilling <input type="checkbox"/> Workover	
<input type="checkbox"/> Permanent <input type="checkbox"/> Emergency <input type="checkbox"/> Cavitation <input type="checkbox"/> P&A	
<input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____	
<input type="checkbox"/> String-Reinforced	
Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____	Volume _____ bbl Dimensions L _____ x W _____ x D _____

3	
<input type="checkbox"/> <b>Closed-loop System:</b> Subsection H of 19 15 17 11 NMAC	
Type of Operation. <input type="checkbox"/> P&A <input type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)	
<input type="checkbox"/> Drying Pad <input type="checkbox"/> Above Ground Steel Tanks <input type="checkbox"/> Haul-off Bins <input type="checkbox"/> Other _____	
<input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____	
Liner Seams <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____	

4	
<input checked="" type="checkbox"/> <b>Below-grade tank:</b> Subsection I of 19 15 17 11 NMAC	
Volume:	120 bbl
Type of fluid	Produced Water
Tank Construction material Steel	
<input type="checkbox"/> Secondary containment with leak detection <input type="checkbox"/> Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
<input type="checkbox"/> Visible sidewalls and liner <input checked="" type="checkbox"/> Visible sidewalls only <input type="checkbox"/> Not labeled	
Liner type: Thickness	_____ mil <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____

5.	
<input type="checkbox"/> <b>Alternative Method:</b>	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	

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**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 \_\_\_\_\_

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**Netting:** Subsection E of 19 15 17 11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☐ Other \_\_\_\_\_
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8.

**Signs:** Subsection C of 19 15 17 11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19 15 3 103 NMAC

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**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

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

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**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 \_\_\_\_\_

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**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)

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**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

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**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)

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**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

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**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

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

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**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

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**Operator Application Certification:**

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

Name (Print) Kurt Hoekstra Title Sr. Environmental Technician

Signature Kurt Hoekstra Date 6-7-2012

E-mail address Kurt\_Hoeksatra@xtoenergy.com Telephone 505-333-3202

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

OCD Representative Signature: Jonathan D. Kelly Approval Date: 5-16-2012

Title: Compliance Officer OCD Permit Number: 10051

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**Closure Report (required within 60 days of closure completion):** Subsection K of 19 15 17 13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: 5-4-2012

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**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

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**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

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**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Kurt Hoekstra Title Sr Environmental Technician

Signature Kurt Hoekstra Date 6-7-2012

E-mail address Kurt\_Hoekstra@xtoenergy.com Telephone 505-333-3100



"Kelly, Jonathan, EMNRD"  
<Jonathan.Kelly@state.nm.us>

05/16/2012 09 03 AM

To "Kurt\_Hoekstra@xtoenergy.com"  
<Kurt\_Hoekstra@xtoenergy.com>

cc

bcc

Subject RE: Garcia Gas Com B # 1 M BGT Closure Plan

Kurt,

The Closure Plan Permit # 10051 has been approved for the Garcia Gas Com B #1M.

Jonathan D. Kelly  
Compliance Officer  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 122  
[jonathan.kelly@state.nm.us](mailto:jonathan.kelly@state.nm.us)

**From:** Kurt\_Hoekstra@xtoenergy.com [mailto:Kurt\_Hoekstra@xtoenergy.com]

**Sent:** Friday, May 11, 2012 3:15 PM

**To:** Kelly, Jonathan, EMNRD

**Subject:** RE: Garcia Gas Com B # 1 M BGT Closure Plan

Ok Sir let me try this again

Kurt Hoekstra  
Sr Environmental Technician  
XTO Energy  
505-333-3202 Office  
505-486-9543 Cell  
[Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)

"Kelly, Jonathan, EMNRD" <[Jonathan.Kelly@state.nm.us](mailto:Jonathan.Kelly@state.nm.us)>

To "[Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)" <[Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)>

>

cc

05/11/2012 09 26 AM

Subject RE: Garcia Gas Com B # 1 M BGT Closure Plan  
t

Kurt,

Please submit a full C-144 marked "Closure Plan Only" with the closure plan attached for approval.

Jonathan D. Kelly  
Compliance Officer  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 122  
[jonathan.kelly@state.nm.us](mailto:jonathan.kelly@state.nm.us)

**From:** [Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com) [[mailto:Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)]  
**Sent:** Friday, May 11, 2012 9:13 AM  
**To:** Kelly, Jonathan, EMNRD  
**Subject:** Garcia Gas Com B # 1 M BGT Closure Plan

Jonathan,  
Please accept this email as a request for approval of the closure plan only for the BGT at the Garcia Gas Com B # 1 M. This BGT is being replaced with an above ground tank. I could not find proof that a closure plan was submitted. Please accept this closure plan for the BGT closure at the Garcia Gas Com B # 1 M well site.  
Thank you for your help with this matter.

Kurt Hoekstra  
Sr. Environmental Technician  
XTO Energy  
505-333-3202 Office  
505-486-9543 Cell  
[Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)

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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: Garcia Gas Com B # 1 M (30-045-30834)	Facility Type: Gas Well (Dakota)

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

Unit Letter O	Section 21	Township 29N	Range 10W	Feet from the 805	North/South Line FSL	Feet from the 1730	East/West Line FEL	County San Juan
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Latitude: 36.70639 Longitude: -107.88639

### 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 4-30-2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully \*


Describe Cause of Problem and Remedial Action Taken.\* The below grade tank was taken out of service at the Garcia Gas Com B # 1 M well site due to maintenance upgrades to this location. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, benzene and 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 133 ppm via USEPA Method 418.1, confirming that a release has occurred at this location.

Describe Area Affected and Cleanup Action Taken \*

Based on TPH Results of 133 PPM, it has been confirmed that a release had occurred at this location.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

### OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor		
Printed Name: Kurt Hoekstra			
Title: Sr Environmental Technician	Approval Date:	Expiration Date:	
E-mail Address: Kurt.Hoekstra@xtoenergy.com	Conditions of Approval		Attached <input type="checkbox"/>
Date: 6-7-2012	Phone: 505-333-3202		



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

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

**API No.:** 30-045-30834

**Description:** Unit O, Section 21, 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 May 4, 2012**
2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.  
**Closure Date is May 4, 2012**
3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.  
**Required C-144 Form is attached to this document.**
4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
  - Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
  - Soil contaminated by exempt petroleum hydrocarbons
  - Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes
  - Basin Disposal Permit No. NM01-005
  - Produced water**All liquids and sludge were removed from the tank prior to closure activities.**
5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.  
**XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.**

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

**All equipment will remain on location for the continued production of oil and gas.**

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

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

Components	Test Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	< 10.0 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 10.0 ug/kg
TPH	EPA SW-846 418.1	100	133 mg/kg
Chlorides	EPA 300.1	250 or background	20 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 133 PPM beneath our BGT, a release has been confirmed for this location. A C-141 Release Notification form will be sent outlining any remediation activities taken regarding this release.**

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

**The pit cellar was backfilled using compacted, non-waste containing earthen material, with a division prescribed soil cover.**

10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.

The notification will include the following:

- i. Operator's name
- ii. Well Name and API Number
- iii. Location by Unit Letter, Section, Township, and Range

**Notification was provided to Mr. Brandon Powell with the Aztec office of the OCD via email on April 30, 2012; see attached email printout.**

The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

**The surface owner was notified on April 30, 2012; see attached letter and return receipt.**

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.  
**The site will continue to be used for oil and gas exploration and production operations. The site will be recontoured upon the plugging and abandoning of this well location..**
12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.  
**The site has been backfilled to match these specifications.**
13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.  
**The location will continue to be used for daily operations pertaining to oil and gas explorations and production activities. The site will be reclaimed pursuant to surface owner specifications upon the plugging and abandoning of this well location.**
14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - i. Proof of closure notice to division and surface owner; **attached**
  - ii. Details on capping and covering, where applicable; **per OCD Specifications**
  - iii. Inspection reports; **attached**
  - iv. Confirmation sampling analytical results; **attached**
  - v. Disposal facility name(s) and permit number(s); **see above**
  - vi. Soil backfilling and cover installation; **per OCD Specifications**
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **NA**
  - viii. Photo documentation of the site reclamation. **attached**

Kurt Hoekstra/FAR/CTOC  
05/11/2012 09:12 AM

To jonathan.kelly@state.nm.us  
cc  
bcc  
Subject Garcia Gas Com B # 1 M BGT Closure Plan

Jonathan,

Please accept this email as a request for approval of the closure plan only for the BGT at the Garcia Gas Com B # 1 M. This BGT is being replaced with an above ground tank. I could not find proof that a closure plan was submitted. Please accept this closure plan for the BGT closure at the Garcia Gas Com B # 1 M well site.

Thank you for your help with this matter.



BGT Closure Plan.doc

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

Kurt Hoekstra /FAR/CTOC

04/30/2012 10:36 AM

To brandon.powell@state.nm.us

cc James McDaniel/FAR/CTOC@CTOC, Logan  
Hixon/FAR/CTOC@CTOC

bcc

Subject Garcia GC B # 1 M, BGT Closure Notification

Brandon,

Please accept this email as the required notification of BGT closure activities at the Garcia Gas Com B # 1 M well site (API # 30-045-30834) located in Unit O, Section 21, Township 29N, Range 10W, San Juan County New Mexico. This BGT is being replaced with an above ground tank. Thank you for your time in regards to this matter.

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

**SENDER: COMPLETE THIS SECTION**

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

## 1. Article Addressed to

Sharlene M. Prespent  
242 Road 4800  
Bloomfield, NM 87413

## 2. Article Number

(Transfer from service label)

7011 1150 0000 5124 5968

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

S. Prespent

☐ Agent☒ Addressee

B. Received by (Printed Name)

SHARLENE Prespent

C. Date of Delivery

5/10/12

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below:

☒ NO

## 3. Service Type

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

4. Restricted Delivery? (Extra Fee)

☐ Yes

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)**OFFICIAL USE**

Postage \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)Restricted Delivery Fee  
(Endorsement Required)

Total Postage &amp; Fees \$

Sent To

Sharlene M. Prespent

Street, Apt. No.,  
or PO Box No

242 Road 4800

City, State, ZIP+4

Bloomfield NM 87413 (KH)

PS Form 3800, August 2006

See Reverse for Instructions

7011 1150 0000 5124 5968



April 30, 2012

Sharlene M. Prespent,  
242 Road 4800  
Bloomfield, New Mexico, 87413

Re: Garcia Gas Com B # 1 M API # 30-045-30834  
Unit O, Section 21, Township 29N, Range 10W, San Juan County, New Mexico

Dear Madam,

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

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

Respectfully Submitted,

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

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

# CHAIN OF CUSTODY RECORD

13887

Client: <b>X70 ENTERPRISE</b>			Project Name / Location: <b>Chadron Gas Com R#11M</b>			ANALYSIS PARAMETERS													
Email results to: <b>JAMES M DANIEL</b> <b>LOREAN HIGDON, KIP HIGDON</b>			Sampler Name: <b>KIP HIGDON</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.:																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No /Volume of Containers	Preservative														
					HgCl <sub>2</sub>	HCl													
BGT Closure Sample	4-30	9:15		14.2 Imp				X	X									X	/
Relinquished by: (Signature) <i>Kip Higdon</i>				Date	Time	Received by: (Signature)												Date	Time
				4-30	2:00														
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil <input 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.																			



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Client:	XTO Energy	Project #	98031-0528
Sample ID:	BGT Closure Sample	Date Reported:	05-01-12
Laboratory Number	61957	Date Sampled:	04-30-12
Chain of Custody No	13887	Date Received:	04-30-12
Sample Matrix:	Soil	Date Extracted:	04-30-12
Preservative:	Cool	Date Analyzed:	05-01-12
Condition	Intact	Analysis Requested:	8015 TPH

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

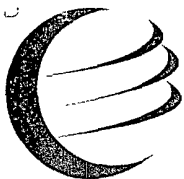
ND - Parameter not detected at the stated detection limit.

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

Comments: **Garcia Gas Com B #1M**

  
Analyst

  
Review



# envirotech

Analytical Laboratory

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0501TCAL QA/QC	Date Reported:	05-01-12
Laboratory Number:	61957	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-01-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-01-12	1.0009E+03	1.0013E+03	0.04%	0 - 15%
Diesel Range C10 - C28	05-01-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%

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

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

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	306	122%	75 - 125%
Diesel Range C10 - C28	ND	250	282	113%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 61866-61867, 61876-61878, 61900-61901, 61952-61953 and 61957

Analyst

Review

Client:	XTO Energy	Project #:	98031-0528
Sample ID:	BGT Closure Sample	Date Reported:	05-01-12
Laboratory Number:	61957	Date Sampled:	04-30-12
Chain of Custody:	13887	Date Received:	04-30-12
Sample Matrix:	Soil	Date Analyzed:	05-01-12
Preservative:	Cool	Date Extracted:	04-30-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
<b>Total BTEX</b>	<b>ND</b>	

ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	99.0 %

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

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

**Comments: Garcia Gas Com B #1M**

Analyst

Review

Client:	N/A	Project #:	N/A
Sample ID:	0501BCAL QA/QC	Date Reported:	05-01-12
Laboratory Number:	61957	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-01-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept Range 0-15%			
Benzene	4.3930E-06	4.3930E-06	0.000	ND	0.2
Toluene	4.2649E-06	4.2649E-06	0.000	ND	0.2
Ethylbenzene	4.7922E-06	4.7922E-06	0.000	ND	0.2
p,m-Xylene	3.5869E-06	3.5869E-06	0.000	ND	0.2
o-Xylene	5.1217E-06	5.1217E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	ND	ND	0.00	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	ND	ND	0.00	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

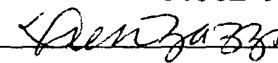
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2450	98.0	39 - 150
Toluene	ND	2500	2440	97.6	46 - 148
Ethylbenzene	ND	2500	2420	96.8	32 - 160
p,m-Xylene	ND	5000	4850	97.0	46 - 148
o-Xylene	ND	2500	2440	97.6	46 - 148

ND - Parameter not detected at the stated detection limit.

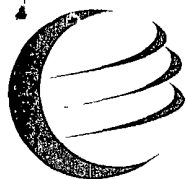
Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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

**Comments:      QA/QC for Samples 61866-61867, 61876-61878, 61900-61901, 61952-61953 and 61957**

  
 Analyst

  
 Review



# envirotech

Analytical Laboratory

Chloride

Client:	XTO Energy	Project #:	98031-0528
Sample ID:	BGT Closure Sample	Date Reported:	05-02-12
Lab ID#:	61957	Date Sampled:	04-30-12
Sample Matrix:	Soil	Date Received:	04-30-12
Preservative:	Cool	Date Analyzed:	05-01-12
Condition:	Intact	Chain of Custody	13887

Parameter	Concentration (mg/Kg)
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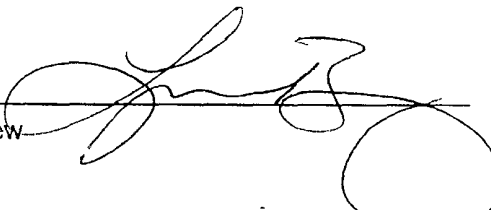
Total Chloride

20

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

Comments: Garcia Gas Com B #1M

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

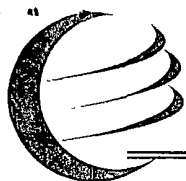
# CHAIN OF CUSTODY RECORD

13864

Client: <b>XTC ENERGY</b>			Project Name / Location: <b>CAROLAN (Las Com B<sup>th</sup> IM</b>			ANALYSIS / PARAMETERS															
Email results to: <b>JAMES M DANIEL</b> <b>LOGAN HINCH KURT HICKSTEIN</b>			Sampler Name: <b>KURT HICKSTEIN</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418 1)	CHLORIDE				Sample Cool	Sample Intact	
Client Phone No.: <b>333-3111</b>			Client No.:																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No /Volume of Containers	Preservative																
					HgCl <sub>2</sub>	HCl															
<b>BCT CELLAR</b>	<b>4-30-12</b>	<b>4:15</b>		<b>(1) 4.2 Ltr</b>																	
Relinquished by: (Signature) <i>Kurt Hickstein</i>					Date <b>4-30-12</b>	Time <b>9:50</b>	Received by: (Signature)										Date	Time			
Relinquished by: (Signature)							Received by: (Signature)														
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.																					



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# envirotech

Analytical Laboratory

EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

Client:	XTO Energy	Project #:	98031-0528
Sample ID	BGT Cellar	Date Reported:	05-01-12
Laboratory Number:	61956	Date Sampled:	04-30-12
Chain of Custody No	13864	Date Received:	04-30-12
Sample Matrix:	Soil	Date Extracted:	05-01-12
Preservative:	Cool	Date Analyzed:	05-01-12
Condition:	Intact	Analysis Needed:	TPH-418 1

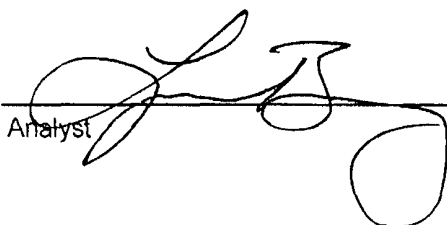
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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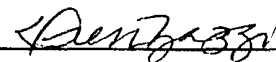
Total Petroleum Hydrocarbons	133	7.4
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ND = Parameter not detected at the stated detection limit.

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

Comments: Garcia Gas Com B #1M

Analyst 

Review 



# envirotech

Analytical Laboratory

EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	05-01-12
Laboratory Number	05-01-TPH QA/QC 61956	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed	05-01-12
Preservative:	N/A	Date Extracted:	05-01-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
	01-17-12	05-01-12	1,850	1,720	7.0%	+/- 10%

**Blank Conc. (mg/Kg)**

TPH

Concentration

ND

Detection Limit

7.4

**Duplicate Conc. (mg/Kg)**

TPH

Sample

133

Duplicate

118

% Difference

11.1%

Accept. Range

+/- 30%

**Spike Conc. (mg/Kg)**

TPH

Sample

133

Spike Added

2,000

Spike Result

2,000

% Recovery

93.8%

Accept Range

80 - 120%

ND = Parameter not detected at the stated detection limit.

References

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

Comments: QA/QC for Samples 61951, 61956, 61963-61964.

Analyst

Review



# Well Below Tank Inspection Report

05/17/2012

Dates -  
06/01/2008 - 05/15/2012

Type Route Stop

Type Value G

RouteName	StopName	Pumper	Foreman	WellName	APIWellNumber	Section	Range	Township
DEN NM Run 43A	GARCIA GAS COM B 01	Wheeler, Adam	Bramwell, Chris	GARCIA GC B 01M	3004530834	21	10W	29N

InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes
BRUCE FRANTZ	10/15/2008	1330 00	No	No	No	Yes	No	30	Compressor v	Below Ground	
BRUCE FRANTZ	11/01/2008	14 00	No	No	No	Yes	No	22	Compressor v	Below G SEPT NOT WORKING OIL IN PIT	
BRUCE FRANTZ	12/11/2008	11 00	No	No	No	Yes	No	20	Compressor v	Below G SEPT NOT WORKING OIL IN PIT	
BRUCE FRANTZ	01/01/2009	11 00	No	No	No	Yes	No	20	Compressor v	Below G new sept all good	
BRUCE FRANTZ	02/15/2009	12 00	No	No	No	Yes	No	3	Compressor v	Below G new sept all good	
BRUCE FRANTZ	03/04/2009	12 00	No	No	No	Yes	No	2	Compressor v	Below G new sept all good	
BRUCE FRANTZ	04/07/2009	17 00	No	No	No	Yes	No	2	Compressor v	Below G new sept all good	
BRUCE FRANTZ	06/02/2009	12 00	No	No	No	Yes	No	4	Compressor v	Below G new sept all good	
BRUCE FRANTZ	07/28/2009	10 00	No	No	No	Yes	No	2	Compressor v	Below G new sept all good	
BRUCE FRANTZ	08/04/2009	09 00	No	No	No	Yes	No	2	Compressor v	Below G HIGH WATER TABLE HAVING TO PULL CELLER EVERY WEEK	
BRUCE FRANTZ	09/29/2009	09 00	No	No	No	Yes	No	2	Compressor v	Below G HIGH WATER TABLE HAVING TO PULL CELLER EVERY WEEK	
Bill Smith	10/25/2009	13 30	No	No	No	Yes	No	2	Compressor v	Below Ground	
BRUCE FRANTZ	11/28/2009	09 00	No	No	No	Yes	No	3	Compressor v	Below Ground	
BRUCE FRANTZ	12/22/2009	01 00	No	No	No	Yes	No	2	Compressor v	Below Ground	
BRUCE FRANTZ	01/28/2010	04 00	No	No	No	Yes	No	3	Compressor v	Below Ground	
BRUCE FRANTZ	02/28/2010	03 00	No	No	No	Yes	No	1	Compressor v	Below Ground	
BRUCE FRANTZ	03/31/2010	01 00	No	No	No	Yes	No	2	Compressor v	Below Ground	

BRUCE FRANTZ	04/10/2010	01 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	05/10/2010	10 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	06/09/2010	09 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	07/08/2010	10 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	08/11/2010	03 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	09/23/2010	03 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	10/12/2010	10 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	11/17/2010	01 00	No	No	No	Yes	No	2	Compressor \ Below Ground
BRUCE FRANTZ	12/11/2010	11 00	No	No	No	Yes	No	1	Compressor \ Below Ground
Adam Wheeler	01/31/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below Ground
Adam Wheeler	03/25/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below Ground
Adam Wheeler	04/29/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
Adam Wheeler	05/24/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
Adam Wheeler	07/07/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
	08/03/2011	00 00 00						0	
Adam Wheeler	08/03/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
Adam Wheeler	09/15/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
Adam Wheeler	10/18/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
Adam Wheeler	11/02/2011	11 00	No	No	No	Yes	No	1	Compressor \ Below G Good condition
JJ	02/03/2012	11 00	No	No	No	Yes	No	1	Compressor \ Below Ground



# XTO Energy On-Site Form

Well Name garcia gas com B#1m API # 30-045-30834

Section 21 Township 29 Range 10 County San Juan

Contractors On-Site \_\_\_\_\_ Time On-Site 8:51 Time Off-Site \_\_\_\_\_

Spill Amount \_\_\_\_\_ bbls Spilled ( Oil/Produced W/Other \_\_\_\_\_ ) RCVRD \_\_\_\_\_

Land Use ( Range Residential / Tribe Farming ) Excavation \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ deep

<p>Site Diagram</p>	<p>Sample Location</p>
<p>Comments</p>	<p>Sample Location</p>

## Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
9:15	NA	100 Standard	NA		NA
	1	Bgt composite	Rocky, saw		8015, 8021, 4/21, 3001

Name (Print) KURT H. HOKSTRA

Date 4-30-2012

Name (Signature) Kurt Hokstra

Company XTO ENERGY

