

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

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 NOV 25 PM 1 08

**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: Valencia Canyon Unit #24  
API Number: 3003921592 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr D Section 15 Township 28N Range 4W County: Rio Arriba  
Center of Proposed Design: Latitude 36.666630 Longitude 107.242950 NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

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

RCVD NOV 7 '12  
OIL CONS. DIV.  
DIST. 3

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

4.  
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 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 - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>11.</b>	<p><b>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:</b> Subsection B of 19.15.17.9 NMAC</p> <p><i>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.</i></p> <p> <input checked="" type="checkbox"/> Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  <input type="checkbox"/> Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  <input checked="" type="checkbox"/> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  <input checked="" type="checkbox"/> Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  <input checked="" type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  <input checked="" type="checkbox"/> 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         </p> <p> <input type="checkbox"/> Previously Approved Design (attach copy of design)    API Number: _____ or Permit Number: _____         </p>
<b>12.</b>	<p><b>Closed-loop Systems Permit Application Attachment Checklist:</b> Subsection B of 19.15.17.9 NMAC</p> <p><i>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.</i></p> <p> <input type="checkbox"/> Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  <input type="checkbox"/> Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  <input type="checkbox"/> Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  <input type="checkbox"/> 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         </p> <p> <input type="checkbox"/> Previously Approved Design (attach copy of design)    API Number: _____         </p> <p> <input type="checkbox"/> 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)         </p>
<b>13.</b>	<p><b>Permanent Pits Permit Application Checklist:</b> Subsection B of 19.15.17.9 NMAC</p> <p><i>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.</i></p> <p> <input type="checkbox"/> Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  <input type="checkbox"/> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  <input type="checkbox"/> Climatological Factors Assessment  <input type="checkbox"/> Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Quality Control/Quality Assurance Construction and Installation Plan  <input type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  <input type="checkbox"/> Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  <input type="checkbox"/> Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  <input type="checkbox"/> Emergency Response Plan  <input type="checkbox"/> Oil Field Waste Stream Characterization  <input type="checkbox"/> Monitoring and Inspection Plan  <input type="checkbox"/> Erosion Control Plan  <input type="checkbox"/> Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC         </p>
<b>14.</b>	<p><b>Proposed Closure:</b> 19.15.17.13 NMAC</p> <p><i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i></p> <p>Type:    <input type="checkbox"/> Drilling    <input type="checkbox"/> Workover    <input type="checkbox"/> Emergency    <input type="checkbox"/> Cavitation    <input type="checkbox"/> P&amp;A    <input type="checkbox"/> Permanent Pit    <input checked="" type="checkbox"/> Below-grade Tank    <input type="checkbox"/> Closed-loop System                    <input type="checkbox"/> Alternative</p> <p>Proposed Closure Method:    <input checked="" type="checkbox"/> Waste Excavation and Removal            <input type="checkbox"/> Waste Removal (Closed-loop systems only)            <input type="checkbox"/> On-site Method (Only for temporary pits and closed-loop systems)            <input type="checkbox"/> In-place Burial    <input type="checkbox"/> On-site Trench Burial            <input type="checkbox"/> Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)</p>
<b>15.</b>	<p><b>Waste Excavation and Removal Closure Plan Checklist:</b> (19.15.17.13 NMAC) <i>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.</i></p> <p> <input checked="" type="checkbox"/> Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  <input checked="" type="checkbox"/> Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  <input checked="" type="checkbox"/> Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  <input checked="" type="checkbox"/> Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  <input checked="" type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  <input checked="" type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC         </p>

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: 11/19/2008  
 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: 8/9/12  
 Title: Environmental Engineer Compliance Officer  
 OCD Permit Number: \_\_\_\_\_

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

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

☒ Closure Completion Date: 8-24-12

22.

**Closure Method:**

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

23.

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

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

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

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

- ☐ Site Reclamation (Photo Documentation)  
☐ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique

24.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)  
☐ Proof of Deed Notice (required for on-site closure)  
☐ Plot Plan (for on-site closures and temporary pits)  
☒ Confirmation Sampling Analytical Results (if applicable)  
☐ Waste Material Sampling Analytical Results (required for on-site closure)  
☒ Disposal Facility Name and Permit Number  
☒ Soil Backfilling and Cover Installation  
☐ Re-vegetation Application Rates and Seeding Technique  
☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983

25.

**Operator Closure Certification:**

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

Name (Print): Kurt Hoekstra Title: Sr. Environmental Technician  
 Signature: Kurt Hoekstra Date: 10-31-12  
 e-mail address: Kurt\_Hoekstra@XTOENERGY.COM Telephone: 505-333-3100

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: Kurt Hoekstra
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3202
Facility Name: Valencia Canyon Unit # 24 (30-039-21592)	Facility Type: Gas Well (Choza Mesa-Pictured Cliffs)

Surface Owner: Federal	Mineral Owner:	Lease No. NM-14915
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**LOCATION OF RELEASE**

Unit Letter D	Section 15	Township 28N	Range 4W	Feet from the 1050	North/South Line FNL	Feet from the 1130	East/West Line FWL	County Rio Arriba
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Latitude: 36.666630 Longitude: -107.242950

**NATURE OF RELEASE**


Type of Release: N/A	Volume of Release: N/A	Volume Recovered: N/A
Source of Release: N/A	Date and Hour of Occurrence: N/A	Date and Hour of Discovery: N/A
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 Valencia Canyon Unit # 24 well site due to plugging and abandon of the well. The BGT cellar beneath the BGT was sampled for TPH via USEPA Method 8015 and 418.1, for BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'pit rule' standards of 100 ppm TPH, 0.2 ppm benzene, 10 ppm total BTEX and 250 ppm chlorides, confirming that a release has not occurred at this location.

Describe Area Affected and Cleanup Action Taken. \*No release has been confirmed for this location, and no further action is required.

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

**OIL CONSERVATION DIVISION**

Signature: 	Approved by District Supervisor:		
Printed Name: Kurt Hoekstra			
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:	
E-mail Address: Kurt_Hoekstra@xtoenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10-31-2012	Phone: 505-333-3202		

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

**Lease Name: Valencia Canyon Unit # 24**

**API No.: 30-039-21592**

**Description: Unit D, Section 15, Township 28N, Range 4W, Rio Arriba 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 August 24, 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 August 24, 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 be removed due to the plugging and abandoning of the Valencia Canyon Unit # 24 well.**

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

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

Components	Test Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	< 0.0030 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.0451 mg/kg
TPH	EPA SW-846 418.1	100	< 5.51mg/kg
Chlorides	EPA 300.1	250 or background	77 mg/kg

8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

**No release has been confirmed at this location**

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

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

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

The notification will include the following:

- Operator's name
- Well Name and API Number
- 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 August 9, 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 August 9, 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 location has been recontoured to match the above specifications.**
12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.  
**The site has been backfilled to match these specifications.**
13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.  
**Site has been reclaimed pursuant to the BLM MOU.**
14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to **OCD** within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - i. Proof of closure notice to division and surface owner; **attached**
  - ii. Details on capping and covering, where applicable; **per OCD Specifications**
  - iii. Inspection reports; **attached**
  - iv. Confirmation sampling analytical results; **attached**
  - v. Disposal facility name(s) and permit number(s); **see above**
  - vi. Soil backfilling and cover installation; **per OCD Specifications**
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **Per BLM MOU**
  - viii. Photo documentation of the site reclamation. **attached**
15. This closure report is being submitted after the 60 day deadline required by the 'Pit Rule' due to a unforeseen delay on final reclamation of this well site. This delay was due to the gathering company not removing their equipment in a timely fashion.

Kurt Hoekstra/FAR/CTOC  
08/09/2012 04:39 PM

To brandon.powell@state.nm.us  
cc  
bcc  
Subject VCU # 24 BGT Closure

Brandon ,

Re: Valencia Canyon Unit # 24 API # 30-039-21592  
Unit D, Section 15, Township 28N, Range 4W, Rio Arriba County, New Mexico

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

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

Respectfully Submitted,



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

Kurt Hoekstra/FAR/CTOC  
08/09/2012 04:26 PM

To Mark Kelly  
cc  
bcc  
Subject VCU # 24 BGT Closure

August 9, 2012

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

Re: Valencia Canyon Unit # 24 API # 30-039-21592  
Unit D, Section 15, Township 28N, Range 4W, Rio Arriba County, New Mexico

Dear Mr. Kelly,

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

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

Respectfully Submitted,



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

14233

san ivan reproduction 578-129



## Report Summary

Client: XTO

Chain of Custody Number: 14233

Samples Received: 08-07-12

Job Number: 98031-0528

Sample Number(s): 62843

Project Name/Location: VCU #24

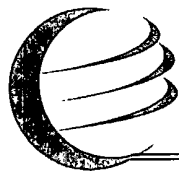
Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'R. [unclear]', written over a horizontal line.

Date:

8/15/12

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



# envirotech

Analytical Laboratory

EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Cellar	Date Reported:	08-15-12
Laboratory Number:	62843	Date Sampled:	08-07-12
Chain of Custody No:	14233	Date Received:	08-07-12
Sample Matrix:	Soil	Date Extracted:	08-10-12
Preservative:	Cool	Date Analyzed:	08-10-12
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	30.5	6.6

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: VCU #24



# 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:	08-10-12
Laboratory Number:	08-09-TPH.QA/QC 62902	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	08-10-12
Preservative:	N/A	Date Extracted:	08-10-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	07-11-12	08-10-12	1,660	1,720	3.6%	+/- 10%

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

Concentration  
ND

Detection Limit  
6.6

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

Sample	Duplicate	% Difference	Accept. Range
159	123	22.5%	+/- 30%

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

Sample	Spike Added	Spike Result	% Recovery	Accept Range
159	2,000	1,990	92.2%	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 62902, 62900, 62866, 62843.







12065 Lebanon Rd.  
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Est. 1970

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

### Report Summary

Tuesday August 14, 2012

Report Number: L588979

Samples Received: 08/08/12

Client Project:

Description: VCU #24

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

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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REPORT OF ANALYSIS

August 14, 2012

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

Date Received : August 08, 2012  
Description : VCU #24  
Sample ID : BGT CELLAR  
Collected By : Kurt  
Collection Date : 08/07/12 10:45

ESC Sample # : L588979-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	77.	12.	mg/kg	9056	08/09/12	1
Total Solids	82.0	0.100	%	2540G	08/11/12	1
Benzene	BDL	0.0030	mg/kg	8021/8015	08/10/12	5
Toluene	BDL	0.030	mg/kg	8021/8015	08/10/12	5
Ethylbenzene	BDL	0.0030	mg/kg	8021/8015	08/10/12	5
Total Xylene	BDL	0.0091	mg/kg	8021/8015	08/10/12	5
TPH (GC/FID) Low Fraction	BDL	0.61	mg/kg	GRO	08/10/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.9		% Rec.	8021/8015	08/10/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/10/12	5
TPH (GC/FID) High Fraction	BDL	4.9	mg/kg	3546/DRO	08/14/12	1
Surrogate recovery(%)						
o-Terphenyl	58.5		% Rec.	3546/DRO	08/14/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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

The reported analytical results relate only to the sample submitted

Reported: 08/14/12 13:04 Printed: 08/14/12 13:05

Summary of Remarks For Samples Printed  
08/14/12 at 13:05:17

TSR Signing Reports: 288  
R5 - Desired TAT

drywt

Sample: L588979-01 Account: XTORNM Received: 08/08/12 09:00 Due Date: 08/15/12 00:00 RPT Date: 08/14/12 13:04  
Changed BTEXM to BTEXGRO per DR. AV 8/9



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XTO Energy - San Juan Division  
James McDaniel  
382 Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L588979

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August 14, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Chloride	< 10	mg/kg			WG606285	08/08/12 07:39
Total Solids	< .1	%			WG607153	08/11/12 10:45
Benzene	< .0005	mg/kg			WG606999	08/10/12 14:09
Ethylbenzene	< .0005	mg/kg			WG606999	08/10/12 14:09
Toluene	< .005	mg/kg			WG606999	08/10/12 14:09
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG606999	08/10/12 14:09
Total Xylene	< .0015	mg/kg			WG606999	08/10/12 14:09
a,a,a-Trifluorotoluene(FID)		% Rec.	94.81	59-128	WG606999	08/10/12 14:09
a,a,a-Trifluorotoluene(FID)		% Rec.	102.1	54-144	WG606999	08/10/12 14:09
TPH (GC/FID) High Fraction	< 4	ppm			WG607281	08/14/12 00:10
o-Terphenyl		% Rec.	56.31	50-150	WG607281	08/14/12 00:10

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	410.	410.	0.971	20	L587109-17	WG606285
Total Solids	%	82.0	82.0	0.399	5	L588979-01	WG607153

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Chloride	mg/kg	200	205.	103.	80-120	WG606285
Total Solids	%	50	50.0	100.	85-115	WG607153
Benzene	mg/kg	.05	0.0431	86.1	76-113	WG606999
Ethylbenzene	mg/kg	.05	0.0504	101.	78-115	WG606999
Toluene	mg/kg	.05	0.0471	94.1	76-114	WG606999
Total Xylene	mg/kg	.15	0.158	105.	81-118	WG606999
a,a,a-Trifluorotoluene(FID)				101.3	54-144	WG606999
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.44	117.	67-135	WG606999
a,a,a-Trifluorotoluene(FID)				100.4	59-128	WG606999
TPH (GC/FID) High Fraction	ppm	60	43.2	72.0	50-150	WG607281
o-Terphenyl				63.21	50-150	WG607281

Analyte	Units	Laboratory Control Result	Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
Chloride	mg/kg	199.	205.	100.	80-120	2.97	20	WG606285
Benzene	mg/kg	0.0447	0.0431	89.0	76-113	3.83	20	WG606999
Ethylbenzene	mg/kg	0.0516	0.0504	103.	78-115	2.23	20	WG606999
Toluene	mg/kg	0.0483	0.0471	97.0	76-114	2.70	20	WG606999
Total Xylene	mg/kg	0.161	0.158	108.	81-118	2.19	20	WG606999
a,a,a-Trifluorotoluene(FID)				101.7	54-144			WG606999
TPH (GC/FID) Low Fraction	mg/kg	6.62	6.44	120.	67-135	2.80	20	WG606999

\* Performance of this Analyte is outside of established criteria  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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August 14, 2012

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
a,a,a-Trifluorotoluene(FID)				101.0	59-128			
TPH (GC/FID) High Fraction	ppm	49.4	43.2	82.0	50-150	13.3	25	WG607281
o-Terphenyl				71.68	50-150			WG607281

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Benzene	mg/kg	0.208	0	.05	83.0	32-137	L589122-06	WG606999
Ethylbenzene	mg/kg	0.232	0	.05	92.8	10-150	L589122-06	WG606999
Toluene	mg/kg	0.229	0	.05	91.7	20-142	L589122-06	WG606999
Total Xylene	mg/kg	0.733	0	.15	97.7	16-141	L589122-06	WG606999
a,a,a-Trifluorotoluene(PID)					100.4	54-144		WG606999
TPH (GC/FID) Low Fraction	mg/kg	25.7	0	5.5	93.5	55-109	L589122-06	WG606999
a,a,a-Trifluorotoluene(FID)					98.59	59-128		WG606999
TPH (GC/FID) High Fraction	ppm	52.1	15.0	60	61.9	50-150	L588644-08	WG607281
o-Terphenyl					76.77	50-150		WG607281

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0.204	0.208	81.6		32-137	1.72	39	L589122-06	WG606999
Ethylbenzene	mg/kg	0.227	0.232	90.8		10-150	2.21	44	L589122-06	WG606999
Toluene	mg/kg	0.218	0.229	87.1		20-142	5.07	42	L589122-06	WG606999
Total Xylene	mg/kg	0.710	0.733	94.6		16-141	3.19	46	L589122-06	WG606999
a,a,a-Trifluorotoluene(PID)				100.9		54-144				WG606999
TPH (GC/FID) Low Fraction	mg/kg	24.6	25.7	89.5		55-109	4.40	20	L589122-06	WG606999
a,a,a-Trifluorotoluene(FID)				98.81		59-128				WG606999
TPH (GC/FID) High Fraction	ppm	40.6	52.1	42.7*		50-150	24.8	25	L588644-08	WG607281
o-Terphenyl				65.35		50-150				WG607281

Batch number / Run number / Sample number cross reference

WG606285: R2295893: L588979-01  
WG607153: R2299373: L588979-01  
WG606999: R2299813: L588979-01  
WG607281: R2301263: L588979-01

\* \* Calculations are performed prior to rounding of reported values.  
\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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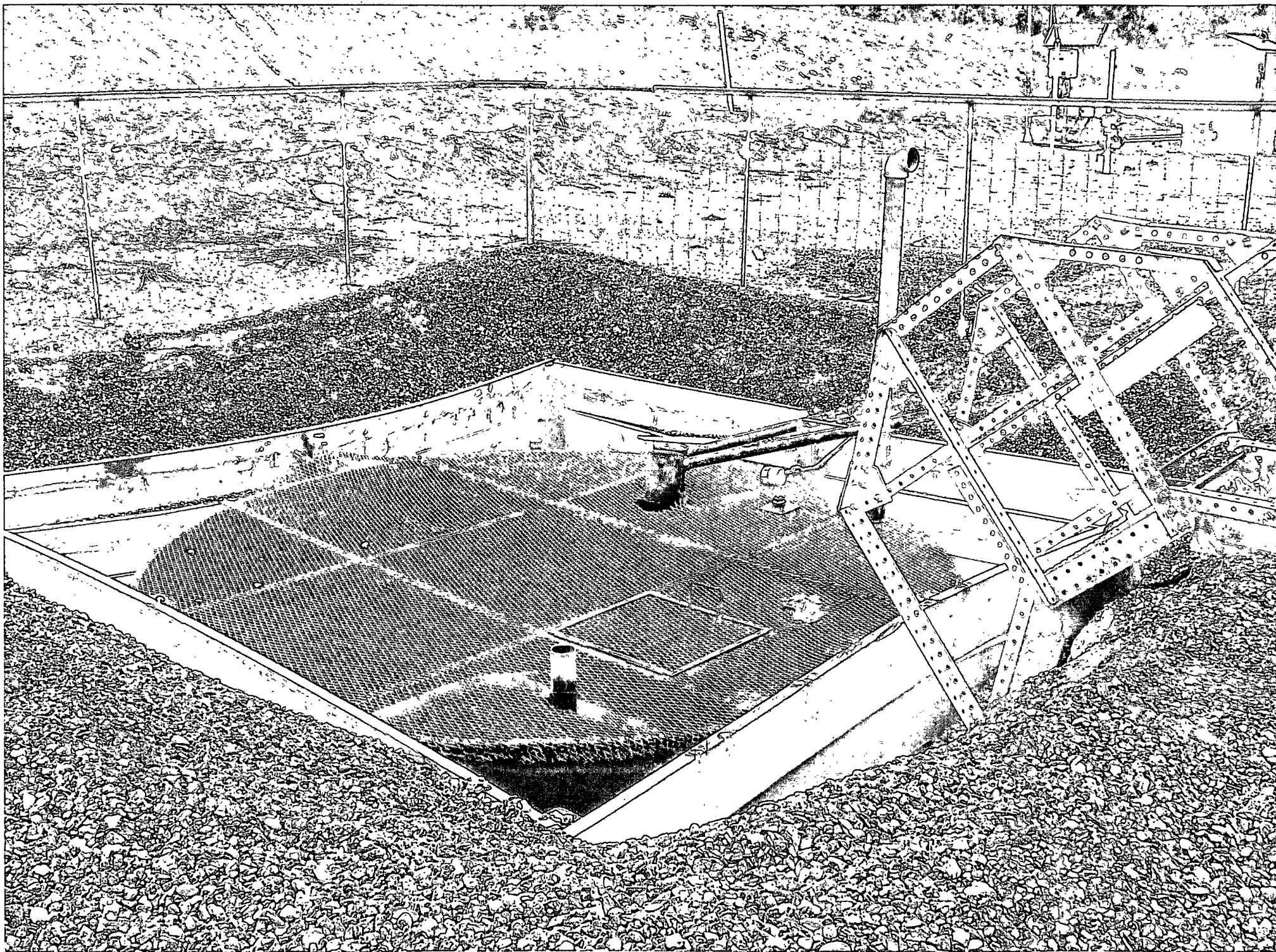
August 14, 2012

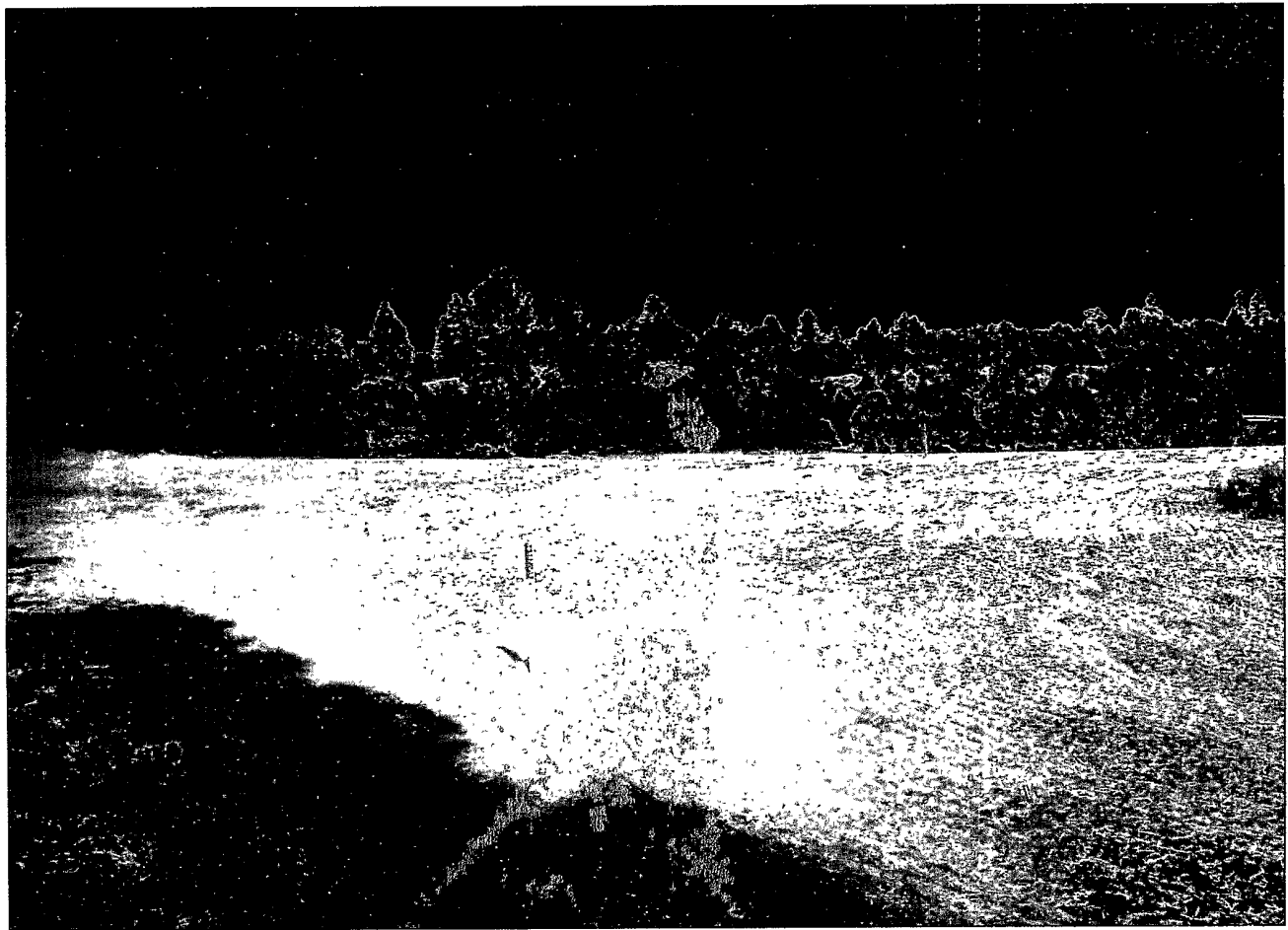
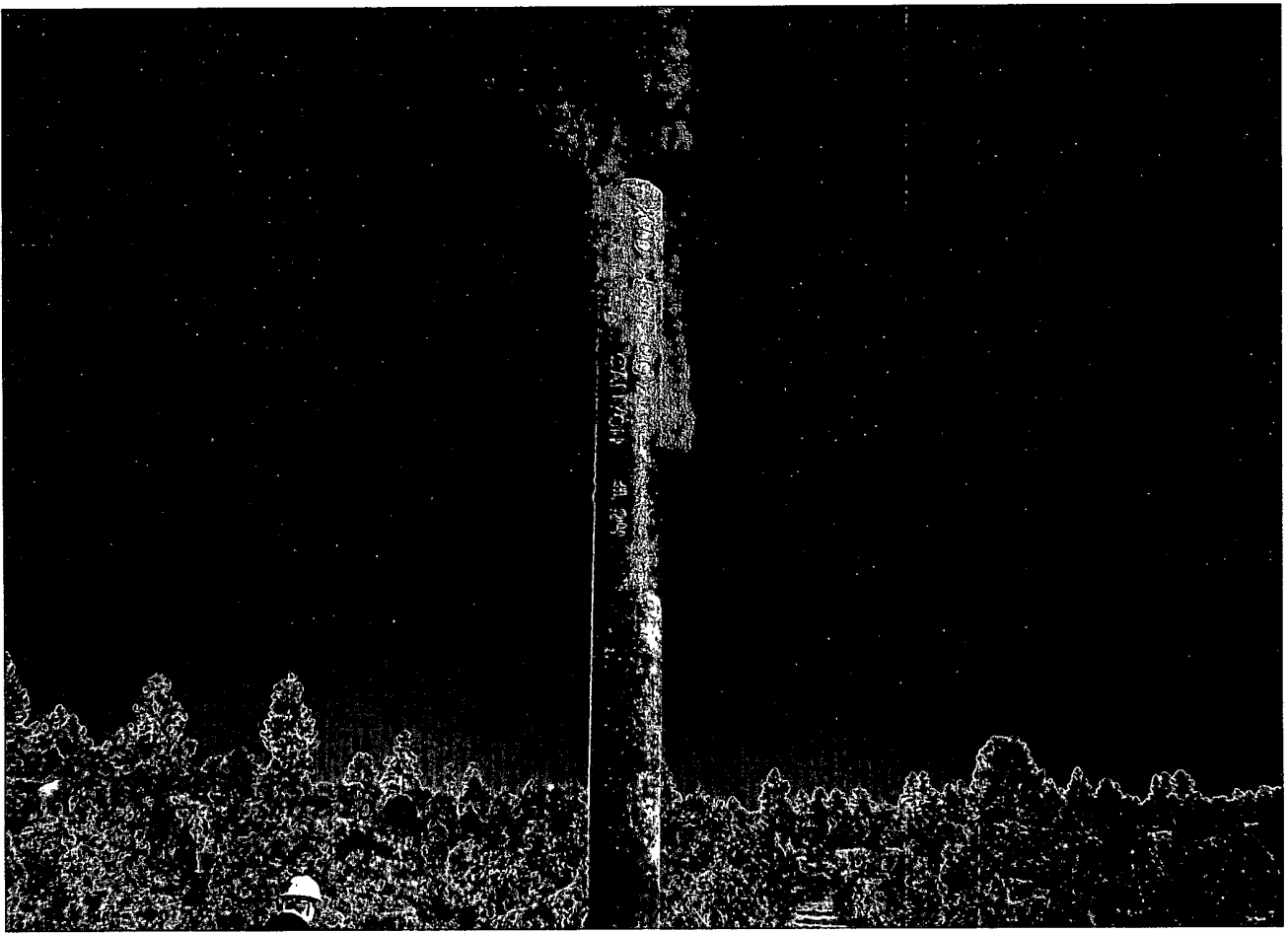
The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the 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.









# Well Below Tank Inspection Report

Division Denver

Dates -  
06/01/2008 - 11/01/2012

Type Route Stop

Type Value V

RouteName		StopName		Pumper	Foreman	WellName			APIWellNumber		Section	Range	Township
Below Grade Pit Forms (Temp.)		VCU 24		McDowell, Jesse	Unassigned	VALENCIA CANYON UNIT 24 (PA)			3003921592		15	4W	28N
InspectorName	Inspection Date	Inspection Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun	Visible LayerOil	Visible Leak	Freeboard EstFT	PitLocation	PitType	Notes		
DC	08/22/2008	00:00:00	No	No	No	No	No	3			No liner		
PS	09/30/2008	00:00	No	No	No	No	No	3			No liner		
PS	10/13/2008	00:00	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
PS	11/23/2008	09:40	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
PS	12/18/2008	09:37	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
PS	01/13/2009	10:20	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	02/24/2009	11:10	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	03/20/2009	08:11	No	No	No	No	No	2	Well Water Pit	Below Ground	No liner		
TRD	04/11/2009	09:11	No	No	No	No	No	2	Well Water Pit	Below Ground	No liner		
DC	06/15/2009	12:30	No	No	No	No	No	2	Well Water Pit	Below Ground	No liner		
DC	07/28/2009	12:10	No	No	No	No	No	2	Well Water Pit	Below Ground	No liner		
TRD	09/14/2009	01:12	No	No	No	No	No	2	Well Water Pit	Below Ground	No liner		
TRD	10/26/2009	10:51	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	11/18/2009	01:12	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	12/14/2009	10:57	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	01/25/2010	10:20	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		
TRD	02/26/2010	10:12	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner		

TRD	03/18/2010	11:29	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	04/10/2010	09:04	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	05/05/2010	01:10	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	06/03/2010	10:12	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	07/01/2010	06:44	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	08/02/2010	10:35	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	09/23/2010	01:04	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	10/07/2010	12:29	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	11/06/2010	09:11	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	12/04/2010	10:00	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	01/04/2011	02:40	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TRD	02/01/2011	02:40	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TF	05/03/2011	11:42	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
TF	06/08/2011	11:42	No	No	No	No	No	3	Well Water Pit	Below Ground	
jm	07/29/2011	10:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	08/26/2011	01:30	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	10/01/2011	07:12	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	11/13/2011	12:40	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	12/09/2011	10:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	01/05/2012	08:14	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	02/27/2012	09:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	03/23/2012	09:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	04/24/2012	09:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	05/21/2012	08:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
jm	06/30/2012	08:15	No	No	No	No	No	3	Well Water Pit	Below Ground	No liner
tf	07/05/2012	11:29	No	No	No	No	No	3	Well Water Pit	Below Ground	