

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.

3787

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

1.  
Operator: XTO Energy, Inc OGRID #: 5380  
Address: #382 County Road 3100, Aztec, NM 87410  
Facility or well name: Huerfano Unit #309  
API Number: 30-045-34772 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr L Section 2 Township 25N Range 9W County: San Juan  
Center of Proposed Design: Latitude 36.42830 Longitude 107.76506 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 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams: ☒ Welded ☒ Factory ☐ Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L 200 x W 80 x D 8-12

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: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
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.	<p><b>Fencing:</b> Subsection D of 19.15.17.11 NMAC (<i>Applies to permanent pits, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input type="checkbox"/> Alternate. Please specify _____</p>																				
7.	<p><b>Netting:</b> Subsection E of 19.15.17.11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>																				
8.	<p><b>Signs:</b> Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>																				
9.	<p><b>Administrative Approvals and Exceptions:</b></p> <p>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</p> <p><b>Please check a box if one or more of the following is requested, if not leave blank:</b></p> <p><input type="checkbox"/> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.</p> <p><input type="checkbox"/> Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</p>																				
10.	<p><b>Siting Criteria (regarding permitting):</b> 19.15.17.10 NMAC</p> <p><b>Instructions:</b> <i>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.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 85%; vertical-align: top;"> <p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <p style="margin-left: 20px;">- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> </td> <td style="width: 15%; text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>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).</p> <p style="margin-left: 20px;">- Topographic map; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. 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(<i>Applies to permanent pits</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>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.</p> <p style="margin-left: 20px;">- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>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.</p> <p style="margin-left: 20px;">- Written confirmation or verification from the municipality; Written approval obtained from the municipality</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 500 feet of a wetland.</p> <p style="margin-left: 20px;">- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within the area overlying a subsurface mine.</p> <p style="margin-left: 20px;">- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within an unstable area.</p> <p style="margin-left: 20px;">- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within a 100-year floodplain.</p> <p style="margin-left: 20px;">- FEMA map</p> </td> <td style="text-align: right; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>	<p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <p style="margin-left: 20px;">- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>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).</p> <p style="margin-left: 20px;">- Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. 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<p>Within a 100-year floodplain.</p> <p style="margin-left: 20px;">- FEMA map</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No																				

11.

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

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

12.

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

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

13.

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

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

14.

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

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

15.

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

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

16.

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

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

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

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

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

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

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

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

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

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

17.

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

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

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

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

☐ Yes ☒ No  
☐ NA

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

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

☐ Yes ☒ No  
☐ NA

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

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

☒ Yes ☐ No  
☐ NA

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

Within 500 feet of a wetland.

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

☐ Yes ☒ No

Within the area overlying a subsurface mine.

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

☐ Yes ☒ No

Within an unstable area.

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

☐ Yes ☒ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☒ No

18.

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

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

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

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

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

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

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

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

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

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

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

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

19.

**Operator Application Certification:**

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

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

20.

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

**OCD Representative Signature:** \_\_\_\_\_ **Approval Date:** \_\_\_\_\_

**Title:** \_\_\_\_\_ **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:** April 24, 2009

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 indentify 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): Kim Champlin Title: Sr. Environmental Representative

Signature: *Kim Champlin* Date: July 23, 2009

e-mail address: kim\_champlin@xtoenergy.com Telephone: (505) 333-3100

*Approved Brandon Powell NMOC 1/5/09*

# **XTO Energy Inc. San Juan Basin Closure Report**

**Lease Name: Huerfano Unit #309**

**API No.: 30-045-34772**

**Description: Sec. 2L-T25N-R9W**

**Note: This well is part of a Designation of Operator Agreement with Burlington Resources. XTO Energy Inc. permitted the drilling activities and the reserve pit, drilled and completed the well and closed the reserve pit. Change of operator was then submitted and Burlington Resources constructed the tank battery and assumed operation of the well.**

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the temporary pit referenced above. All proper documentation regarding closure activities is being included with the C-144.

- Proof of Closure Notice
  - Proof of Deed Notice (Not Required)
  - Plot Plan
  - C-105
  - Sampling Results
  - Details on Soil Backfilling and Cover Installation
  - Re-vegetation Application Rates and Seeding Technique
  - Site Reclamation Photos (Including Steel Marker)
1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycled, reused, or reclaimed in a manner that the Aztec Division office approves.  
**Cuttings were run through a centrifuge unit operated by Patriot to remove fluids October 20 through November 4, 2008 and fluids were disposed of at Basin Disposal NM01-005.**
  2. The preferred method of closure for all temporary pits will be on-site, in-place burial, assuming that all criteria listed in Subsection (B) of 19.15.17.13 are met.  
**On-site, in-place burial plan for this location was approved by the Aztec Division office on August 25, 2008.**
  3. The surface owner shall be notified of XTO proposed closure plan using a means that provides proof of notice, i.e., Certified Mail, return receipt requested.  
**The surface owner was notified of XTO's proposed closure plan via email on August 22, 2008 and of on-site burial by certified mail, return receipt requested, February 3, 2009 (attached).**
  4. Within 6 months of Rig Off status occurring XTO will ensure that temporary pits are closed, re-contoured, and reseeded.  
**Rig moved off location September 23, 2008. Pit closed February 26, 2009. Area seeded May 11, 2009 (beginning of first growing season after closure).**

5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
- Operator's Name
  - Well Name and API Number
  - Location by Unit Letter, Section, Township, Range

**Notice was given to OCD by XTO within the specified time period (February 3, 2009, attached). Closure activity began February 23, 2009.**

6. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve appropriate solidification. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.

**Pit contents were mixed with non-waste containing, earthen material in order to achieve appropriate solidification. The solidification process was accomplished using a combination of natural drying and mechanically mixing using a dozer and trachoe. Pit contents were mixed with non-waste, earthen material to a consistency that was deemed safe and stable. Approximately 2300 cubic yards of sandylome earthen material from the location was added to pit contents of 770 cubic yards. The mixing ratio did not exceed 3 parts clean soil to 1 part pit contents. Solidification was completed February 6, 2009.**

7. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.

**Liner of temporary pit was removed above "mud level" after stabilization. Removal of the liner consisted of manually cutting liner at mud level and removing all remaining liner. Care was taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner was disposed of at a licensed disposal facility, (San Juan County Landfill).**

8. A five point composite sample will be taken using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e. dig and haul. Disposal facilities to be utilized should this method be required will be Envirotech, Permit No. NM01-0011 or IEI, Permit No. NM01-0010B

**A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). (Sample results attached).**

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	0.066
TPH	EPA SW-846 418.1	2500	37
GRO/DRO	EPA SW-846 8015M	500	29
Chlorides	EPA 300.1	1000 or background	41

9. Upon completion of solidification and testing, the pit area will be backfilled with compacted, non-waste containing earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

**Upon completion of solidification and testing, the pit area was backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover was achieved and the cover included just over one foot of background topsoil suitable for establishing vegetation at the site. Backfill and cover were placed to match existing grade.**

10. Re-contouring of the location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, ponding prevention, and erosion prevention. 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 a smooth surface, fitting the natural landscape.

**Re-contouring of location matches fit, shape, line, form and texture of the surrounding area. Re-shaping of the location included drainage control, ponding prevention, and erosion prevention. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final re-contour has a uniform appearance with smooth surface, fitting the natural landscape and was completed February 26, 2009.**

11. Notification will be sent to OCD when the reclaimed area is seeded.

**Notification via C-103 is included in this report. Seeding date was May 11, 2009.**

12. XTO shall seed the disturbed areas the first growing season after the pit is closed. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM of 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.

**Notification via C-103 will be sent to OCD when the reclaimed area successfully achieves re-vegetation for two successive growing seasons.**

13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the on-site burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time all wells on the pad are abandoned. The operator's information will include the following: Operator's Name, Lease Name, Well Name and Number, Unit Number, Section, Township, Range and an indicator that the marker is an on-site burial location.

**The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will include a four foot tall riser welded around the base with the operator's information. The riser will be set in a way to not impede reclamation activities. The operator's information will include the following: Burlington Resources, Huerfano Unit #309, Sec. 2L-T25N-R09W "Pit Burial". Steel marker is expected to be set by the end of July 2009.**

14. XTO shall file a deed notice identifying the exact location of the on-site burial with the county clerk in the county where the on-site burial occurs.

**Not required on state, federal, or tribal land according to FAQ dated October 30, 2008 and posted on the OCD website.**



Submit To Appropriate District Office Two Copies District I 1625 N French Dr, Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd, Aztec, NM 87410 District IV 1220 S St Francis Dr, Santa Fe, NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>				<b>Form C-105</b> July 17, 2008					
		1. WELL API NO.		30-045-34772							
		2. Type of Lease		<input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN							
		3. State Oil & Gas Lease No									
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>											
4. Reason for filing  <input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15 17 13 K NMAC)						5. Lease Name or Unit Agreement Name <b>Huerfano Unit</b>  6. Well Number  <b>#309</b>					
7. Type of Completion <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER											
8. Name of Operator <b>XTO Energy Inc.</b>						9. OGRID <b>5380</b>					
10. Address of Operator <b>382 County Road 3100 Aztec, NM 87410</b>						11. Pool name or Wildcat					
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	L	2	25N	9W	4	1960	S	750	W	San Juan	
BH:											
13. Date Spudded 09/14/2008	14. Date T D Reached 09/22/2008	15. Date Rig Released 09/23/2008		16. Date Completed (Ready to Produce) 11/12/2008		17. Elevations (DF and RKB, RT, GR, etc )					
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run					
22. Producing Interval(s), of this completion - Top, Bottom, Name											
<b>23. CASING RECORD (Report all strings set in well)</b>											
CASING SIZE		WEIGHT LB /FT		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
24. LINER RECORD						25. TUBING RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET		
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
<b>28. PRODUCTION</b>											
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio				
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API - (Corr.)					
29. Disposition of Gas (Sold, used for fuel, vented, etc.)								30. Test Witnessed By			
31. List Attachments											
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit											
33. If an on-site burial was used at the well, report the exact location of the on-site burial											
Latitude				36.42830		Longitude		107.76506		NAD 1927	1983
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief											
Signature <i>Kim Champlin</i>		Printed Name		Kim Champlin		Title		Sr. Environmental Rep		Date 07/23/2009	
E-mail Address		kim_champlin@xtoenergy.com									

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 South St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
<sup>4</sup> Property Code	<sup>5</sup> Property Name HUERFANO		<sup>6</sup> Well Number 309
<sup>7</sup> GRID No	<sup>8</sup> Operator Name XTO ENERGY INC.		<sup>9</sup> Elevation 6469

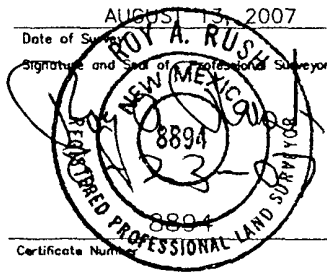
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	25-N	9-W		1960	SOUTH	750	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

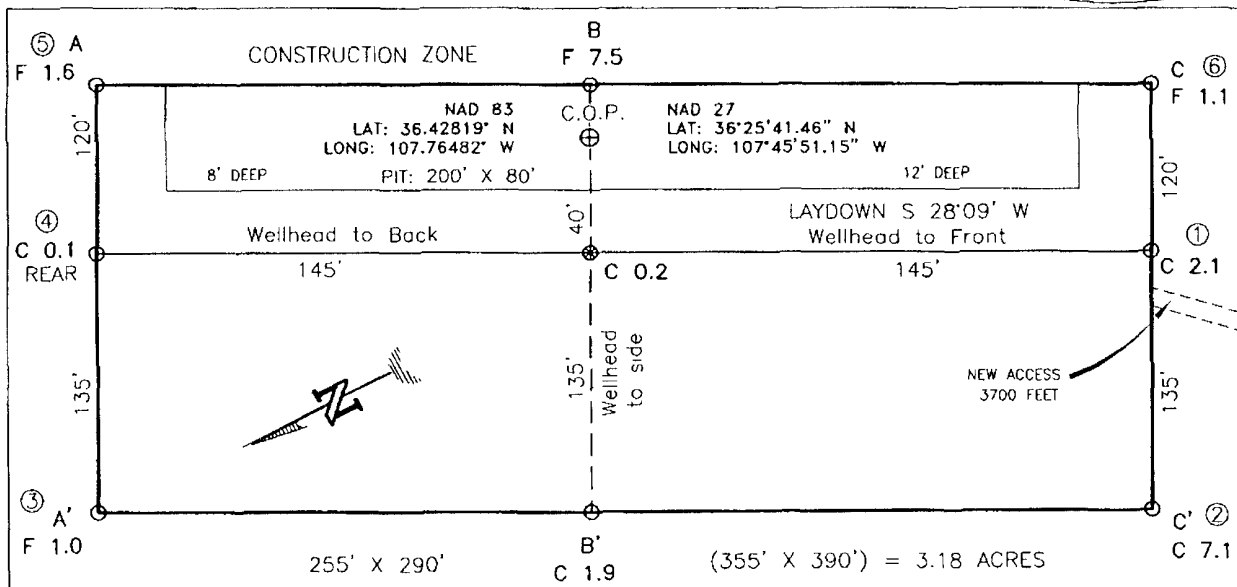
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div>LOT 4</div> <div>LOT 3</div> <div>LOT 2</div> <div>LOT 1</div>				<div>17</div> <div>OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <div>Signature _____ Date _____</div> <div>Printed Name _____</div>
<div>FD. 2 1/2" BC. 1947 G.L.O.</div> <div>750'</div> <div>N 00-02-49 E 2646.01' (M)</div> <div>1960'</div> <div>LAT: 36.42830° N. (NAD 83) LONG: 107.76506° W. (NAD 83) LAT: 36°25'41.8" N. (NAD 27) LONG: 107°45'52.0" W. (NAD 27)</div> <div>2</div> <div>N 89-59-52 E 2620.41' (M)</div> <div>FD. 2 1/2" BC. 1947 G.L.O.</div>				<div>18</div> <div>SURVEYOR CERTIFICATION</div> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <div>AUGUST 13, 2007</div> <div>Date of Survey _____</div> <div>Signature and Seal of Professional Surveyor: </div> <div>Certificate Number _____</div>

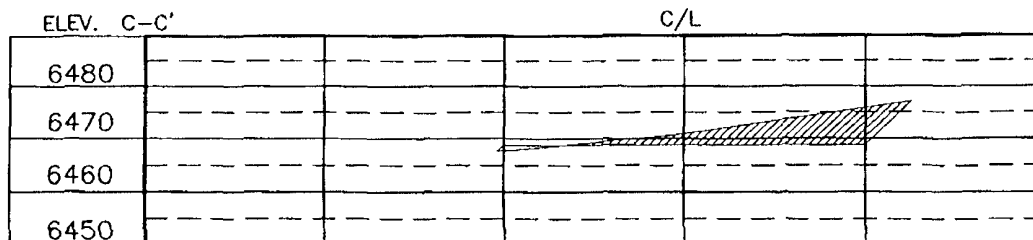
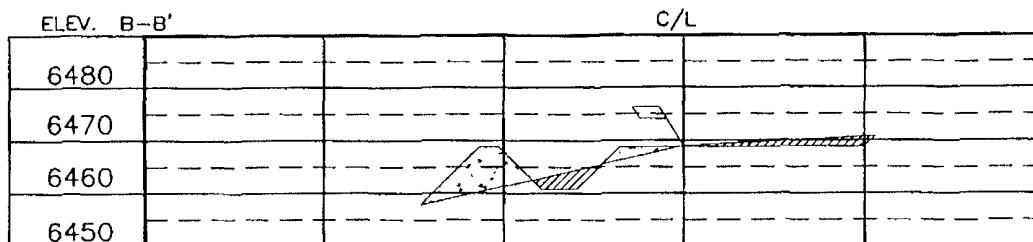
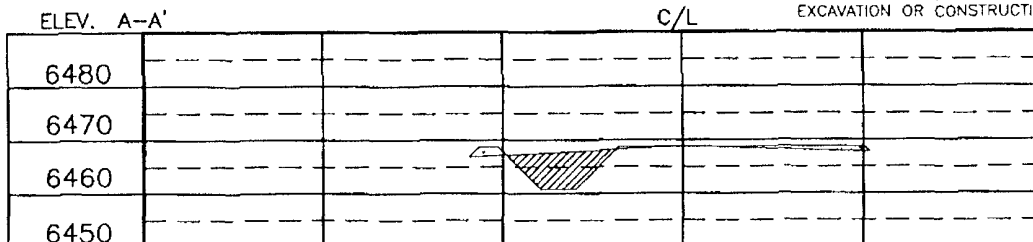
XTO ENERGY INC.  
 HUERFANO No. 309, 1960 FSL 750 FWL  
 SECTION 2, T25N, R9W, N.M.P.M., SAN JUAN COUNTY, N.M.  
 GROUND ELEVATION: 6469' DATE: AUGUST 13, 2007

NAD 83  
 LAT. = 36.42830° N  
 LONG. = 107.76506° W  
 NAD 27  
 LAT. = 36°25'41.8" N  
 LONG. = 107°45'52.0" W



RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE)  
 BLOW PIT OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE DAGGETT ENTERPRISES, INC IS NOT LIABLE FOR  
 UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO  
 ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO  
 EXCAVATION OR CONSTRUCTION



NOTE CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR  
 CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION

**Daggett Enterprises, Inc.**  
 Surveying and Oil Field Services  
 P. O. Box 510 • Farmington, NM 87499  
 Phone (505) 326-1772 • Fax (505) 326-6019  
 NEW MEXICO L.S. No. 8894

REVISION: 07/23/08  
 DATE: 07/23/08  
 BY: B.K.

DRAWN BY: C.V.  
 ROW#: CR611

DATE: 8/13/07



Kim Champlin/FAR/CTOC

08/22/2008 09:49 AM

To sdawson@slo.state.nm.us

cc

bcc

Subject Notice- Huerfano Unit #309 Well Site

RE: Huerfano Unit #309 Gas Well  
Sec. 02- T25N- R9W, San Juan County

Dear Mr. Dawson:

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify surface owners of on site burial of temporary pits. XTO Energy Inc. (XTO) is hereby providing written documentation of our intention to close the temporary pit associated with the aforementioned location by means of in place on site burial.

Should you have any questions or require additional information please feel free to contact me at your earliest convenience (505) 333-3100.

I recently submitted the same notice for the Huerfano Unit #320 in error. That location is actually a Federal Lease. I am so sorry for the mix up.

Kim Champlin  
Environmental Representative  
XTO Energy  
San Juan Division  
(505) 333-3207 Office  
(505)330-8357 Cell  
(505) 333-3280 Fax



February 3, 2009

Scott Dawson  
New Mexico State Land Office  
Oil, Gas and Minerals Division  
PO Box 1148  
Santa Fe, NM 87504-1148  
(505) 827-6628

Regarding: Huerfano Unit #309 Gas Well API #30-045-34772  
Sec. 2L- T25N- R9W, San Juan County

Dear Mr. Dawson,

Pursuant to NMAC Rule 19.15.17.13 requiring operators to notify surface owners of on site burial of temporary pits, XTO Energy Inc. (XTO) is hereby providing written documentation of closure of the temporary pit associated with the aforementioned location by means of in place on site burial. This temporary pit was closed in accordance to NMAC Rule 19.15.17.13.

Should you require any further information feel free to contact me at (505) 333-3100.

Respectfully submitted,

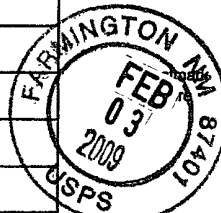
Kim Champlin  
Sr. Environmental Representative  
XTO Energy Inc.  
San Juan Division

Cc: OCD  
File

7004 2510 0005 9631 4667

U.S. Postal Service™ **HUIERFAND UNIT #309**  
**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 & Fees	\$



Sent To: **N.M. STATE LAND OFFICE**  
**Scott Dawson OIL & GAS & MINERAL DIVISION**  
Street, Apt. No., or PO Box No.: **P.O. BOX 1148**  
City, State, ZIP+4: **Santa Fe, NM 87504**

PS Form 3800, June 2002

See Reverse for Instructions

**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:  
**Scott Dawson**  
**N.M. State Land Office**  
**Oil, Gas & Minerals Division**  
**P.O. BOX 1148**  
**Santa Fe, NM 87604**  
**HUIERFAND UNIT #309**

2. Article Number  
(Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
**X** ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No  
If Yes, enter delivery address below:



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

4. Restricted Delivery? (Extra Fee) ☐ Yes

7004 2510 0005 9631 4667



"Rosenbaum Construction  
Co., Inc."  
<rosenbaumconstruction@ms  
n.com>

02/03/2009 11:46 AM

To "Brandon.Powell" <Brandon.Powell@state.nm.us>

cc "Kim\_Champlin" <Kim\_Champlin@xtoenergy.com>,  
"Tony\_Sternberger" <Tony\_Sternberger@xtoenergy.com>

bcc

Subject 72 HOUR NOTICE

BRANDON,

THIS IS OUR 72 HOUR NOTICE TO SOLIDIFY PIT CONTENTS ON AN XTO WELL SITE.

HUERFANO #309

TOWNSHIP 25N, RANGE 9W, SECTION 2, QUARTER SECTION SW  
SAN JUAN COUNTY

THANK YOU,

STEPHANNE COATS  
ROSENBAUM CONSTRUCTION  
505-325-6367

## COVER LETTER

Monday, February 23, 2009

Martin Nee  
XTO Energy  
382 County Road 3100  
Aztec, NM 87410

TEL: (505) 333-3100  
FAX (505) 333-3280

RE: Reserve Pit Samples

Order No.: 0902182

Dear Martin Nee:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/18/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX





**Hall Environmental Analysis Laboratory, Inc.**

Date: 23-Feb-09

**CLIENT:** XTO Energy  
**Lab Order:** 0902182  
**Project:** Reserve Pit Samples  
**Lab ID:** 0902182-01

**Client Sample ID:** Huerfano #309 Reserve Pit  
**Collection Date:** 2/16/2009 10:00:00 AM  
**Date Received:** 2/18/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	29	10		mg/Kg	1	2/21/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/21/2009
Surr: DNOP	92.9	61.7-135		%REC	1	2/21/2009
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/20/2009 2:17:13 PM
Surr: BFB	114	58.8-123		%REC	1	2/20/2009 2:17:13 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	2/20/2009 2:17:13 PM
Toluene	0.066	0.050		mg/Kg	1	2/20/2009 2:17:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/20/2009 2:17:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/20/2009 2:17:13 PM
Surr: 4-Bromofluorobenzene	104	66.8-139		%REC	1	2/20/2009 2:17:13 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: RAGS
Chloride	41	1.5		mg/Kg	5	2/19/2009 12:21:15 AM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	37	20		mg/Kg	1	2/20/2009

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

## QA/QC SUMMARY REPORT

Client: XTO Energy  
Project: Reserve Pit Samples

Work Order: 0902182

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: EPA Method 300.0: Anions</b>									
Sample ID: MB-18348		MBLK			Batch ID: 18348		Analysis Date: 2/18/2009 5:06:00 PM		
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-18348		LCS			Batch ID: 18348		Analysis Date: 2/18/2009 5:23:25 PM		
Chloride	15.52	mg/Kg	0.30	103	90	110			
<b>Method: EPA Method 418.1: TPH</b>									
Sample ID: MB-18361		MBLK			Batch ID: 18361		Analysis Date: 2/20/2009		
Petroleum Hydrocarbons, TR	ND	mg/Kg	20						
Sample ID: LCS-18361		LCS			Batch ID: 18361		Analysis Date: 2/20/2009		
Petroleum Hydrocarbons, TR	92.34	mg/Kg	20	92.3	82	114			
Sample ID: LCSD-18361		LCSD			Batch ID: 18361		Analysis Date: 2/20/2009		
Petroleum Hydrocarbons, TR	93.82	mg/Kg	20	93.8	82	114	1.59	20	
<b>Method: EPA Method 8015B: Diesel Range Organics</b>									
Sample ID: 0902182-01AMSD		MSD			Batch ID: 18363		Analysis Date: 2/21/2009		
Diesel Range Organics (DRO)	86.28	mg/Kg	10	114	67.4	117	6.94	17.4	
Sample ID: MB-18363		MBLK			Batch ID: 18363		Analysis Date: 2/21/2009		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-18363		LCS			Batch ID: 18363		Analysis Date: 2/21/2009		
Diesel Range Organics (DRO)	48.15	mg/Kg	10	96.3	64.6	116			
Sample ID: LCSD-18363		LCSD			Batch ID: 18363		Analysis Date: 2/21/2009		
Diesel Range Organics (DRO)	49.39	mg/Kg	10	98.8	64.6	116	2.54	17.4	
Sample ID: 0902182-01AMS		MS			Batch ID: 18363		Analysis Date: 2/21/2009		
Diesel Range Organics (DRO)	80.49	mg/Kg	10	102	67.4	117			
<b>Method: EPA Method 8016B: Gasoline Range</b>									
Sample ID: MB-18347		MBLK			Batch ID: 18347		Analysis Date: 2/21/2009 5:03:23 AM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-18347		LCS			Batch ID: 18347		Analysis Date: 2/20/2009 6:21:02 PM		
Gasoline Range Organics (GRO)	28.81	mg/Kg	5.0	111	64.4	133			
Sample ID: LCSD-18347		LCSD			Batch ID: 18347		Analysis Date: 2/20/2009 6:51:38 PM		
Gasoline Range Organics (GRO)	31.27	mg/Kg	5.0	121	64.4	133	8.19	11.6	

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

## QA/QC SUMMARY REPORT

Client: XTO Energy  
 Project: Reserve Pit Samples

Work Order: 0902182

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: MB-18347 MBLK Batch ID: 18347 Analysis Date: 2/21/2009 5:03:23 AM

Benzene	ND	mg/Kg	0.050			
Toluene	ND	mg/Kg	0.050			
Ethylbenzene	ND	mg/Kg	0.050			
Xylenes, Total	ND	mg/Kg	0.10			

Sample ID: LCS-18347 LCS Batch ID: 18347 Analysis Date: 2/21/2009 4:02:19 AM

Benzene	0.9602	mg/Kg	0.050	94.5	78.8	132
Toluene	0.9806	mg/Kg	0.050	97.4	78.9	112
Ethylbenzene	1.054	mg/Kg	0.050	105	69.3	125
Xylenes, Total	3.184	mg/Kg	0.10	106	73	128

Sample ID: LCSD-18347 LCSD Batch ID: 18347 Analysis Date: 2/21/2009 4:32:47 AM

Benzene	0.9866	mg/Kg	0.050	97.1	78.8	132	2.71	27
Toluene	1.018	mg/Kg	0.050	101	78.9	112	3.75	19
Ethylbenzene	1.115	mg/Kg	0.050	111	69.3	125	5.62	10
Xylenes, Total	3.349	mg/Kg	0.10	112	73	128	5.07	13

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

2/18/2009

Work Order Number 0902182

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

Container/Temp Blank temperature?

6°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

# Chain-of-Custody Record

Client: XTO ENERGY

Address: 382 ROAD 3100

AZTEC NM 87410

Phone #: 505-333-3207

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

RESERVE PIT SAMPLES

Project #:

HUERFANO # 309

Project Manager:

MARTIN NEE

Sampler:

KURT

Office Keyes - No

Sample Location

Container Type and #

24oz. Jars

ON ICE

HEAL No.

1902182

-1

Date: 2/17

Time: 9:30

Date: 2/16

Time: 10:00

Relinquished by: Kurt Hoekstra

Relinquished by:

Received by: Kurt Hoekstra

Received by:

Time: 9:55 2/18/09

Time:

Remarks:

E-MAIL RESULTS TO:

KURT HOEKSTRA

KIM CAMPBELL

BTEX + MTBE + TMB (8021)

X

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

X

EDB (Method 504.1)

EDC (Method 8260)

8310 (PNA or PAH)

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

X

Geo-Pro 8015 M

X

Chlorides 300.0

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Ave, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410  
District IV  
1220 S St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
June 19, 2008

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-045-34772
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator XTO Energy Inc		6. State Oil & Gas Lease No.
3. Address of Operator 382 County Road 3100 Aztec, NM 87410		7. Lease Name or Unit Agreement Name Huerfano Unit
4. Well Location Unit Letter L : 1960 feet from the South line and 750 feet from the West line Section 2 Township 25N Range 9W NMPM County San Juan		8. Well Number #309
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number
		10. Pool name or Wildcat

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: Seed Temporary Pit Area ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The area where the temporary pit has been buried in place was seeded on April 9, 2009 using BLM Seed Mix by drilling on the contour (disk and seed on contour).

BLM Seed Mix Special >10 Inches of Precipitation

Fourwing Saltbush (Atriplex Canescens)	1.0 lbs
Indian Wheatgrass (Oryzopsis Hymenoides)	1.0 lbs
Western Wheatgrass (Agropyron Smithii)	2.0 lbs
Blue Gamma (Hatcheta or Alma)	0.25 lbs
Small Burnet (Delar)	1.0 lbs
Pubescent Wheatgrass	2.0 lbs
Intermediate Wheatgrass	2.0 lbs
Smooth Brome	2.0 lbs
Antelope Bitterbrush	0.10 lbs

Spud Date:

September 14, 2008

Rig Release Date:

September 23, 2008

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim Champlin TITLE Sr Environmental Representative DATE July 23, 2009

Type or print name Kim Champlin E-mail address: kim\_champlin@xtoenergy.com PHONE: (505) 333-3100

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any): \_\_\_\_\_

## TEMPORARY PIT INSPECTION FORM

**Well Name:** Huerfano Unit #309

**API No.:** 30-045-34772

**Legals:**

**Sec:** 2L

**Township:** 25N

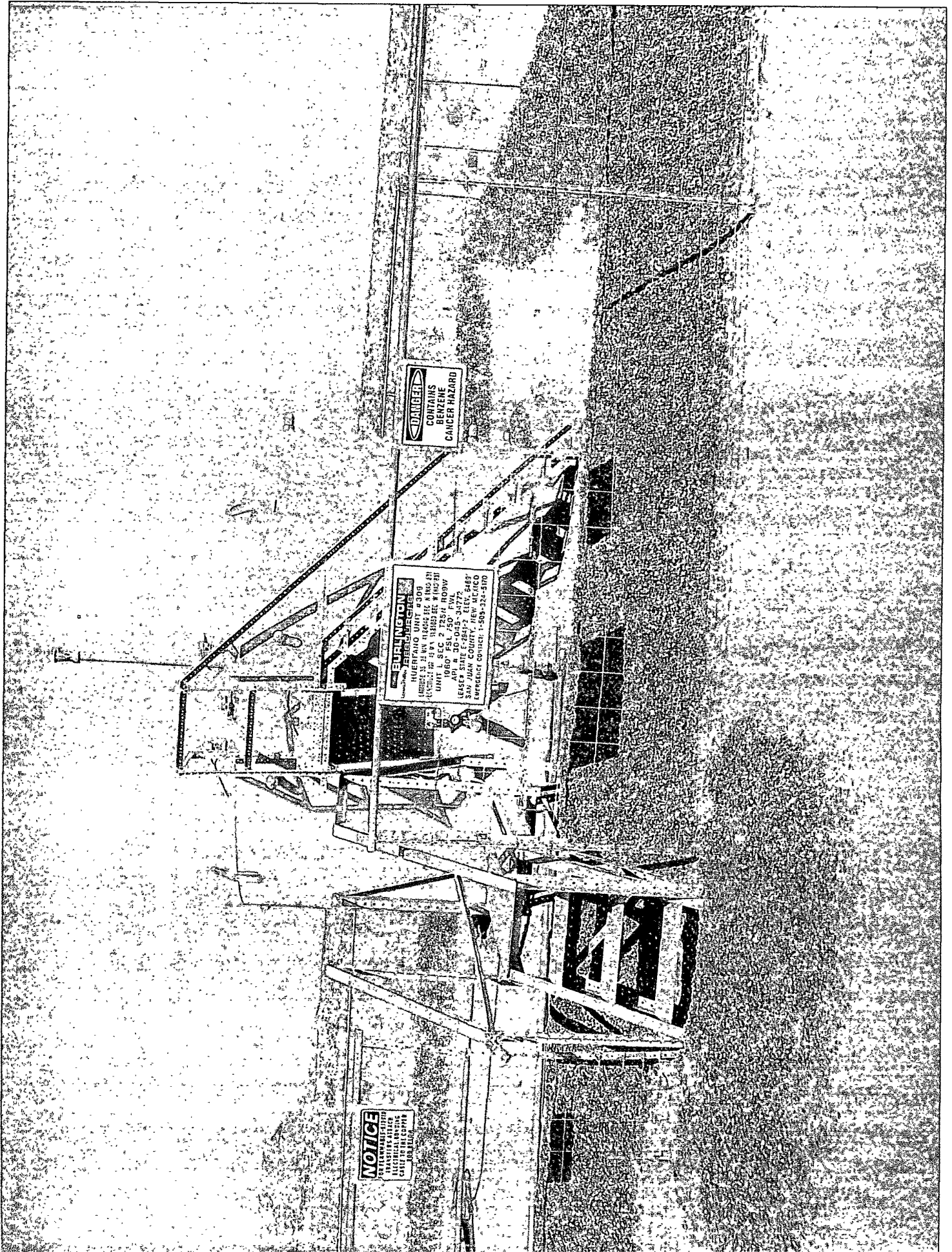
**Range:** 9W

Inspector's	Inspection	Any visible liner	Any fluid seeps/	HC's on top of	Temp. pit free of misc	Discharge line	Fence	Any dead	Freeboard
Name	Date	breeches (Y/N)	spills (Y/N)	temp. pit (Y/N)	solid waste/ debris (Y/N)	integrity (Y/N)	integrity (Y/N)	wildlife/stock (Y/N)	Est. (ft)
Mike Hartsell	9/25/2008	N	N	N	Y	Y	Y	N	>2'
Mike Hartsell	10/2/2008	N	N	N	Y	Y	Y	N	>2'
Mike Hartsell	10/9/2008	N	N	N	Y	Y	Y	N	>2'
Mike Jones	10/15/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	10/24/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	10/28/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	11/7/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	11/10/2208	N	N	N	Y	Y	Y	N	8-10'
Roger B.	11/21/200	N	N	N	Y	Y	Y	N	8-10'
Roger B.	11/26/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	12/5/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	12/11/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	12/20/2008	N	N	N	Y	Y	Y	N	8-10'
Roger B.	12/27/2008	Snowed In/ No access so no inspection							
Roger B.	12/31/2008	N	N	N	Y	Y	Y	N	8-10'
Mike Hartsell	1/9/2009	N	N	N	Y	Y	Y	N	8-10'

**Notes:**

Provide Detailed Description:

**Misc:**



**DANGER**  
CONTAINS  
BENZENE  
CANCER HAZARD

**BURLINGTON**  
HUIERTANG UNIT #308  
LENDERS IS A NEW WAREHOUSE FOR THE  
UNITED STATES OF AMERICA  
UNIT #308 BCC 2 1254 HWY  
APR 8 30 00 30 FVW  
LENDERS STATE E-8541-2 ELEV 5487  
EMERGENCY CONTACT: 1-505-324-5100

**NOTICE**  
ALL REMOVALS MUST  
BE APPROVED BY THE  
LOCAL OFFICE  
CALL TO THE LOCAL  
OFFICE





