

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 NMOC District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOC District Office.

2008 NOV 25 PM 1 13

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.

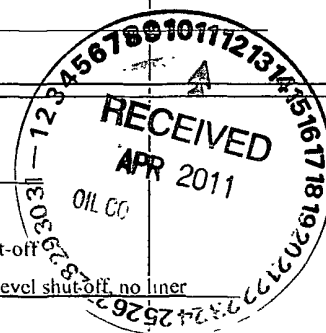
1. Operator XTO Energy, Inc. OGRID #: 5380
Address #382 County Road 3100, Aztec, NM 87410
Facility or well name Man Federal #1
API Number 3004506031 OCD Permit Number _____
U/L or Qtr/Qtr J Section 05 Township 26N Range 11W County San Juan
Center of Proposed Design Latitude 36 5140769 Longitude 108 02299 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 _____

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

4. ☒ **Below-grade tank:** Subsection I of 19 15 17 11 NMAC
Volume 21 bbl Type of fluid Produced Water
Tank Construction material Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut-off, no liner
Liner type Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

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



25

6	<p>Fencing: 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 checked="" type="checkbox"/> Alternate Please specify <u>Four foot height, steel mesh field fence (hogwire) with pipe top railing</u></p>																					
7	<p>Netting: 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 checked="" type="checkbox"/> Other <u>Expanded metal or solid vaulted top</u></p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>																					
8	<p>Signs: 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 checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>																					
9	<p>Administrative Approvals and Exceptions:</p> <p>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</p> <p>Please check a box if one or more of the following is requested, if not leave blank:</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>Siting Criteria (regarding permitting): 19.15.17.10 NMAC</p> <p><i>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.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; 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: 20%; vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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 (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p> </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to permanent pits</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p> </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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="vertical-align: top; text-align: right;"> <input checked="" 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="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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 & Mineral Resources, USGS, NM Geological Society, Topographic map</p> </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input checked="" 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 checked="" 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 checked="" type="checkbox"/> No	<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to permanent pits</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<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>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>Within an unstable area</p> <p style="margin-left: 20px;">- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>Within a 100-year floodplain</p> <p style="margin-left: 20px;">- FEMA map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<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 checked="" 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 checked="" type="checkbox"/> No																					
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to permanent pits</i>)</p> <p style="margin-left: 20px;">- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					
<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>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					
<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					
<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>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					
<p>Within an unstable area</p> <p style="margin-left: 20px;">- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					
<p>Within a 100-year floodplain</p> <p style="margin-left: 20px;">- FEMA map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					

11	<p>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC</p> <p>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.</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>	
12	<p>Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC</p> <p>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.</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>	
13	<p>Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC</p> <p>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.</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 H₂S, 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>	
14	<p>Proposed Closure: 19 15 17 13 NMAC</p> <p>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</p> <p>Type <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Cavitation <input type="checkbox"/> P&A <input type="checkbox"/> Permanent Pit <input checked="" type="checkbox"/> Below-grade Tank <input type="checkbox"/> Closed-loop System</p> <p> <input type="checkbox"/> Alternative</p> <p>Proposed Closure Method. <input checked="" type="checkbox"/> Waste Excavation and Removal</p> <p> <input type="checkbox"/> Waste Removal (Closed-loop systems only)</p> <p> <input type="checkbox"/> On-site Closure Method (Only for temporary pits and closed-loop systems)</p> <p> <input type="checkbox"/> In-place Burial <input type="checkbox"/> On-site Trench Burial</p> <p> <input type="checkbox"/> Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)</p>	
15	<p>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.</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>	

<input type="checkbox"/> Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
<input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	
<input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	<input type="checkbox"/> NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Topographic map, Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	
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.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Written confirmation or verification from the municipality, Written approval obtained from the municipality	
Within 500 feet of a wetland	<input type="checkbox"/> Yes <input type="checkbox"/> No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area.	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society; Topographic map	
Within a 100-year floodplain	<input type="checkbox"/> Yes <input type="checkbox"/> No
- FEMA map	

<input type="checkbox"/>	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17 10 NMAC	
<input type="checkbox"/>	Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC	
<input type="checkbox"/>	Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC	
<input type="checkbox"/>	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	
<input type="checkbox"/>	Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC	
<input type="checkbox"/>	Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC	
<input type="checkbox"/>	Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC	
<input type="checkbox"/>	Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)	
<input type="checkbox"/>	Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC	
<input type="checkbox"/>	Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC	
<input type="checkbox"/>	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@xtocenergy.com Telephone (505) 333-3100

20
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment) 8/16/2011

OCD Representative Signature: [Signature] Approval Date: 4/8/10

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: 2/7/11

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) James McDaniel Title EH&S Specialist

Signature [Signature] Date 4/8/11

e-mail address James-McDaniel@xtocenergy.com Telephone 505-333-3701

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: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: Man Federal #1 (30-045-06031)	Facility Type: Gas Well (Dakota)

Surface Owner: Federal	Mineral Owner:	Lease No.:
------------------------	----------------	------------

LOCATION OF RELEASE

Unit Letter J	Section 5	Township 26N	Range 11W	Feet from the 1680	North/South Line FSL	Feet from the 1480	East/West Line FEL	County San Juan
------------------	--------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	--------------------

Latitude: 36.514077 Longitude: -108.02299

NATURE OF RELEASE

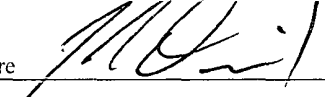
Type of Release: Produced water	Volume of Release: unknown	Volume Recovered: none
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 12/13/2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully *

Describe Cause of Problem and Remedial Action Taken *
The below grade tank was taken out of service at the Man Federal #1 well site due to the plugging and abandoning of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for TPH, benzene, total BTEX, but above the 250 ppm total chloride standard, confirming that a release has occurred at this location. The site was then ranked a zero pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. This set the closure standard to 5,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken *
The BGT closure sample returned results below the regulatory standards determined for this site. Currently, the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases does not cite a closure standard for chlorides. Analytical results are attached for your reference.

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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: James McDaniel		Approved by District Supervisor.	
Title: EH&S Specialist	Approval Date:	Expiration Date:	
E-mail Address: James.McDaniel@xtoenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/8/2011	Phone: 505-333-3701		

* Attach Additional Sheets If Necessary

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

Lease Name: Man Federal #1

API No.: 30-045-06031

Description: Unit J, Section 5, Township 26N, Range 11W, San Juan County

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1 XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
Closure Date is February 7, 2011
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 February 7, 2011
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 has been removed due to the plugging and abandoning of the Man Federal #1 well site.

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

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

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	BDL mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	BDL mg/kg
TPH	EPA SW-846 418.1	100	ND mg/kg
Chlorides	EPA 300.1	250 or background	400 mg/kg

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

Due to chloride results above the 250 ppm 'Pit Rule' standard, a release has been confirmed for this location. The NMOC Guidelines for the Remediation of Leaks, Spills and Releases does not cite a closure standard for chlorides. TPH, benzene and BTEX results were all non-detect. No further action is required regarding this release.

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

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

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

The notification will include the following:

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

Notification was provided to Mr. Brandon Powell with the Aztec office of the OCD via email on January 28, 2011; 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 January 28, 2011; see attached letter and return receipt.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape

The site has been recontoured to match the above mentioned 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.

The location 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; **None Found**
 - 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 the BLM MOU**
 - viii. Photo documentation of the site reclamation. **attached**



COVER LETTER

Monday, December 20, 2010

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Man Federal #1

Order No.: 1012676

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 12/16/2010 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 or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 20-Dec-10

CLIENT: XTO Energy

Client Sample ID: BGT Closure Composite

Lab Order: 1012676

Collection Date: 12/13/2010 2:30:00 PM

Project: Man Federal #1

Date Received: 12/16/2010

Lab ID: 1012676-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	12/20/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Man Federal #1

Work Order: 1012676

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-24923		<i>MBLK</i>									
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								12/20/2010
Sample ID: LCS-24923		<i>LCS</i>									
Petroleum Hydrocarbons, TR	88.70	mg/Kg	20	100	0	88.7	86.8	116			12/20/2010
Sample ID: LCSD-24923		<i>LCSD</i>									
Petroleum Hydrocarbons, TR	97.58	mg/Kg	20	100	0	97.6	86.8	116	9.53	16.2	12/20/2010

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received.

12/16/2010

Work Order Number 1012676

Received by.

LNM

Checklist completed by:

Signature

12/16/10
Date

Sample ID labels checked by:

AG/MG
Initials

Matrix.

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

7.3°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted

Person contacted

Contacted by:

Regarding:

Comments

Corrective Action

Client: XTO Energy

Mailing Address: 382 CR-3100
Aztec, NM 87410

Phone #: 787-0519

email or Fax#: james-mcdaniel@
xtoenergy.com

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☒ Standard ☐ Rush

man Federal #1

ن

James McDaniel

Sampler: J. McDaniel

On Ice ☒ Yes ☐ No

Sample Temperature: 73

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALTH No.
------	------	--------	-------------------	----------------------	-------------------	------------

12/13/10	1430	Soil	BAT Closure Composite	1-4oz	Cool	
----------	------	------	-----------------------	-------	------	--

Date.	Time.	Relinquished by	Received by.	Date	Time
-------	-------	-----------------	--------------	------	------

Date:	Time	Relinquished by	Received by	Date	Time
-------	------	-----------------	-------------	------	------

9/15/10	1300	Cristine Waller	Dorchester MA	216
---------	------	-----------------	---------------	-----

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)
BBTEX + MTBE + TPH (Gas only)
TPH Method 8015B (Gas/Diesel)
TPH (Method 418 1)
EDB (Method 504.1)
8310 (PNA or PAH)
RRCA 8 Metals
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
8081 Pesticides / 8082 PCB's
8260B (VOA)
8270 (Semi-VOA)
Air Bubbles (Y or N)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I D 62-0814289
Est 1970

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

Report Summary

Monday December 20, 2010

Report Number: L493593

Samples Received: 12/14/10

Client Project:

Description: Man Federal 1

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.

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 293
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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



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

Tax I D 62-0814289

Est 1970

REPORT OF ANALYSIS

December 20, 2010

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

ESC Sample # L493593-01

Date Received December 14, 2010
Description Man Federal 1

Site ID MAN FEDERAL 1

Sample ID BGT CLOSURE COMPOSITE

Project # .

Collected By James McDaniel
Collection Date 12/13/10 14 30

Parameter	Dry Result	Det Limit	Units	Method	Date	Dil
Chloride	400	10	mg/kg	9056	12/18/10	1
Total Solids	94 7		%	2540G	12/17/10	1
Benzene	BDL	0 0026	mg/kg	8021/8015	12/15/10	5
Toluene	BDL	0 026	mg/kg	8021/8015	12/15/10	5
Ethylbenzene	BDL	0 0026	mg/kg	8021/8015	12/15/10	5
Total Xylene	BDL	0 0079	mg/kg	8021/8015	12/15/10	5
TPH (GC/FID) Low Fraction	BDL	0 53	mg/kg	GRO	12/15/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102		% Rec	8021/8015	12/15/10	5
a,a,a-Trifluorotoluene(PID)	100		% Rec	8021/8015	12/15/10	5
TPH (GC/FID) High Fraction	BDL	4 2	mg/kg	3546/DRO	12/17/10	1
Surrogate recovery(%)						
o-Terphenyl	98 7		% Rec	3546/DRO	12/17/10	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 12/20/10 10 14 Printed 12/20/10 13 38

Summary of Remarks For Samples Printed
12/20/10 at 13 38 06

TSR Signing Reports 288
R5 - Desired TAT

Sample L493593-01 Account XTORNM Received 12/14/10 09 00 Due Date 12/21/10 00 00 RPT Date 12/20/10 10 14



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L493593

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

Tax I D 62-0814289

Est 1970

December 20, 2010

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Benzene	< 0005	mg/kg		WG513176	12/14/10 18 56
Ethylbenzene	< 0005	mg/kg		WG513176	12/14/10 18 56
Toluene	< 005	mg/kg		WG513176	12/14/10 18 56
TPH (GC/FID) Low Fraction	< 1	mg/kg		WG513176	12/14/10 18 56
Total Xylene	< 0015	mg/kg		WG513176	12/14/10 18 56
a,a,a-Trifluorotoluene(FID)		% Rec 103 3	59-128	WG513176	12/14/10 18 56
a,a,a-Trifluorotoluene(FID)		% Rec 102 3	54-144	WG513176	12/14/10 18 56
Total Solids	< 1	%		WG513326	12/17/10 11 48
TPH (GC/FID) High Fraction	< 4	ppm		WG513523	12/17/10 14 40
o-Terphenyl		% Rec 102 4	50-150	WG513523	12/17/10 14 40
Chloride	< 10	mg/kg		WG513978	12/18/10 08 35

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	85 0	84 7	0.248	5	L493598-03	WG513326
Chloride	mg/kg	48 0	55 0	13 8	20	L493790-02	WG513978

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Benzene	mg/kg	05 0 0551	110	76-113	WG513176
Ethylbenzene	mg/kg	05 0 0561	112	78-115	WG513176
Toluene	mg/kg	05 0 0552	110	76-114	WG513176
Total Xylene	mg/kg	15 0 173	116	81-118	WG513176
a,a,a-Trifluorotoluene(FID)			100 2	54-144	WG513176
TPH (GC/FID) Low Fraction	mg/kg	5 5 6 01	109	67-135	WG513176
a,a,a-Trifluorotoluene(FID)			93 87	59-128	WG513176
Total Solids	%	50 50 0	100	85-115	WG513326
TPH (GC/FID) High Fraction	ppm	60 52 1	86 9	50-150	WG513523
o-Terphenyl			92 99	50-150	WG513523
Chloride	mg/kg	200 192	96 0	85-115	WG513978

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0 0527 0 0551 105	76-113	4 48	20	WG513176
Ethylbenzene	mg/kg	0 0535 0 0561 107	78-115	4 72	20	WG513176
Toluene	mg/kg	0 0521 0 0552 104	76-114	5 74	20	WG513176
Total Xylene	mg/kg	0 166 0 173 110	81-118	4 55	20	WG513176
a,a,a-Trifluorotoluene(FID)			99 72	54-144		WG513176
TPH (GC/FID) Low Fraction	mg/kg	6 27 6 01 114	67-135	4 26	20	WG513176
a,a,a-Trifluorotoluene(FID)			94 86	59-128		WG513176

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



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L493593

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

Tax I D 62-0814289

Est 1970

December 20, 2010

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	52.9	52.1	88.0		50-150	1.48	25	WG513523
o-Terphenyl				92.84		50-150			WG513523
Chloride	mg/kg	187	192	94.0		85-115	2.64	20	WG513978
Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch	
		MS Res	Ref Res	TV	% Rec				
Benzene	mg/kg	0.252	0	05	101	32-137	L493536-01	WG513176	
Ethylbenzene	mg/kg	0.253	0	05	101	10-150	L493536-01	WG513176	
Toluene	mg/kg	0.254	0	05	102	20-142	L493536-01	WG513176	
Total Xylene	mg/kg	0.793	0	15	106	16-141	L493536-01	WG513176	
a,a,a-Trifluorotoluene (PID)					99.98	54-144		WG513176	
TPH (GC/FID) Low Fraction	mg/kg	25.4	0	5.5	92.4	55-109	L493536-01	WG513176	
a,a,a-Trifluorotoluene (FID)					95.54	59-128		WG513176	
Chloride	mg/kg	852	380	500	94.4	80-120	L493593-01	WG513978	
Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/kg	0.247	0.252	98.7	32-137	2.18	39	L493536-01	WG513176
Ethylbenzene	mg/kg	0.238	0.253	95.2	10-150	5.98	44	L493536-01	WG513176
Toluene	mg/kg	0.238	0.254	95.1	20-142	6.55	42	L493536-01	WG513176
Total Xylene	mg/kg	0.746	0.793	99.4	16-141	6.07	46	L493536-01	WG513176
a,a,a-Trifluorotoluene (PID)				100.3	54-144				WG513176
TPH (GC/FID) Low Fraction	mg/kg	23.6	25.4	85.8	55-109	7.40	20	L493536-01	WG513176
a,a,a-Trifluorotoluene (FID)				94.53	59-128				WG513176
Chloride	mg/kg	867	852	97.4	80-120	1.75	20	L493593-01	WG513978

Batch number /Run number / Sample number cross reference

WG513176 R1505069 L493593-01
WG513326 R1507894 L493593-01
WG513523 R1508650 L493593-01
WG513978 R1509289 L493593-01

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



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L493593

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

Tax I D 62-0814289

Est 1970

December 20, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410				Alternate Billing XTORN031810S Report to James McDaniel E-mail to James_McDaniel@xtoenergy.com		Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1-4oz/Coc 1-4oz/Coc 1-4oz/Coc </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1-4oz/Coc 1-4oz/Coc 1-4oz/Coc </div> </div>				Chain of Custody Page ___ of ___ Prepared by A066 ENVIRONMENTAL Science corp 12065 Lebanon Road Mt Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859									
Project Description Man Federal #1		City/State Collected NAPI NM		Client Project No ~		Lab Project # ~		CoCode (lab use only) XTORN Template/Prelogin Shipped Via: Fed Ex											
PHONE 505-333-3701 FAX		Collected by James McDaniel Man Federal #1		PO # ~		No of Cntrs <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1-4oz/Coc 1-4oz/Coc 1-4oz/Coc </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 1-4oz/Coc 1-4oz/Coc 1-4oz/Coc </div> </div>													
Collected by (Signature) 		Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day 100% <input type="checkbox"/> TWO Day 50% <input type="checkbox"/> Three Day 25%		Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes															
Packed on Ice N <input checked="" type="checkbox"/>		Sample ID BGT Closure Composite		Comp/Grab Comp						Matrix SS		Depth ~		Date 12/13/10		Time 1430		No of Cntrs 1	

Matrix SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____

pH _____ Temp _____

Remarks

Relinquisher by (Signature) 		Date 12/13/10		Time 1530		Received by (Signature) 		Samples returned via FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____		Condition (lab use only) OK			
Relinquisher by (Signature) 		Date 12-14-10		Time 0900		Received by (Signature) 		Temp 3.1		Bottles Received 1		pH Checked - NCF COCS	
Relinquisher by (Signature) 		Date 12-14-10		Time 0900		Received for lab by (Signature) 		Date 12-14-10		Time 0900		pH Checked - NCF COCS	



James McDaniel /FAR/CTOC

01/28/2011 07:43 AM

To: brandon.powell@state.nm.us

cc: Martin.Nee/FAR/CTOC@CTOC

bcc:

Subject: Man Federal #1 BGT Closure

Brandon,

Please accept this email as the required notice for BGT closure activities at the Man Federal #1 well site (api # 30-045-06031) located in Unit J, Section 5, Township 26N, Range 11W, San Juan County, New Mexico. This BGT is being closed due to the plugging and abandoning of this well location. Thank you for your time in regards to this matter.



James McDaniel

EH&S Specialist

XTO Energy, Inc.

Office # 505-303-3701

Cell # 505-707-0519



January 28, 2011

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

Re: Man Federal #1
Unit J, Section 5, Township 26N, Range 11W, San Juan 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 waste excavation and removal.

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

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "James McDaniel", written over a horizontal line.

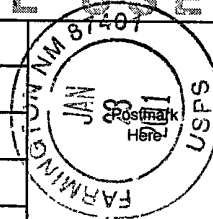
James McDaniel
EH&S Specialist
XTO Energy, Inc.
San Juan Division

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage &	



Sent To
Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

BLM-FFO
MARK KELLY
1235 LA PLATA HWY
FARMINGTON, NM 87401

PS Form 3811, February 2004

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:

BLM-FFO
MARK KELLY
1235 LA PLATA HWY
FARMINGTON, NM 87401

2. Article Number
(Transfer from service label)

7010 0780 0001-6436-9444

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent
☒ *[Signature]* ☐ Addressee
B. Received by (Printed Name) C. Date of Delivery

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

XTO Energy, Inc.
Man Federal #1
Section 5, Township 26N, Range 11W
Closure Date 2/7/2011

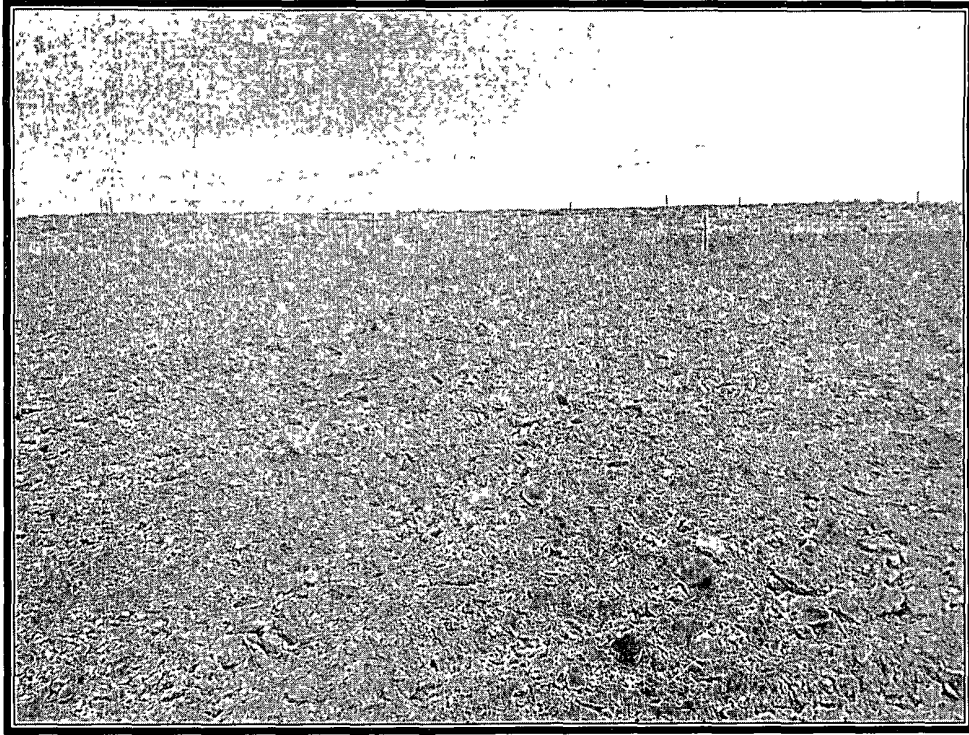


Photo 1: Man Federal #1 after Reclamation (view 1)



Photo 2: Man Federal #1 after Reclamation (view 2)