District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

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### Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

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Type of action:  Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,		
or proposed alternative method		
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request		
lease 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 nvironment. 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 Road 3100, Aztec, New Mexico 87410		
Facility or well name: New Mexico Federal N # 2E		
API Number: 30-045-24243 OCD Permit Number:		
U/L or Qtr/Qtr D Section 17 Township 30N Range 12W County: San Juan		
Center of Proposed Design: Latitude 36.817557 Longitude -108.12681 NAD: □1927 ☑ 1983		
Surface Owner:   Federal  State  Private  Tribal Trust or Indian Allotment		
2.    Pit: Subsection F, G or J of 19.15.17.11 NMAC   Temporary:   Drilling   Workover   Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chloride Drilling Fluid   yes   no     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.		
☑ Below-grade tank: Subsection I of 19.15.17.11 NMAC  OIL CONS. DIV DIST. 3		
Volume: 120 bbl Type of fluid: Produced Water		
Tank Construction material: Steel APR 0.5. 2017		
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off		
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other <u>Visable sidewalls, vaulted, automatic high-level shut off</u>		
Liner type: Thicknessmil		
4.  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify:		

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Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen ☐ Netting ☒ Other: Expanded metal or solid vaulted top		
☐ Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19.15.17.11 NMAC		
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
Signed in compliance with 19.15.16.8 NMAC		
Signed in compnance with 17.13.10.0 NAME		
Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source	
General siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No	
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA	
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. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No	
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No	
Below Grade Tanks		
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)		
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No	
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>		
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Temporary Pit Non-low chloride drilling fluid			
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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 spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Permanent Pit or Multi-Well Fluid Management Pit			
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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ 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		
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  Previously Approved Design (attach copy of design) API Number:  or Permit Number:			
11.			
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC    uctions: 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.    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   A List of wells with approved application for permit to drill associated with the pit.   Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC   Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC			
Previously Approved Design (attach copy of design) API Number: or Permit Number:			

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 H₂S, 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	
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 Multi-well Flands 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	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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 C 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 H of 19.15.17.13 NMAC	
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 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
Ground water is between 25-50 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 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	
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.	☐ Yes ☐ No
<ul> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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 the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No			
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>				
Within a 100-year floodplain.	☐ Yes ☐ No			
- FEMA map	☐ Yes ☐ No			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements 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 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 H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC			
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 beling the certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beling the certification:    Title:				
Signature: Date:				
e-mail address:Telephone:				
OCD Approval: Permit Application (including closure plan) Closure Flan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 4/12  Title: Expiration (including closure plan) Closure Flan (only) OCD Conditions (see attachment)  OCD Permit Number:	//7			
Closure Report (required within 60 days of closure completion): 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: 3-14-2017				
20.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-lo ☐ If different from approved plan, please explain.	oop systems only)			

22.		
Operator Closure Certification:		
		osure report is true, accurate and complete to the best of my knowledge and equirements and conditions specified in the approved closure plan.
Name (Print): Kurt Hoekstra	_Title:	EHS Coordinator
Signature: _ Kurt Horkelin	_Date: _	3-21-2017
e-mail address: Kurt_Hoekstra@xtoenergy.com	_ Telepho	one: <u>505-333-3100</u>

Form C-144 July 21, 2 B

District.1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aziec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Alternative Method:

Submittal of an exception request is a

Exceptions

be submitted to the

Fe Environmental

office for consideration of app

# State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For temporary pits, closed-loop systems, below-grade tanks, submit to the appropriate NMOCD District Office.
For permanental pure and exceptions submit to the Santa Fe Bridgo and Exceptions submit to the Santa Fe Bridgo and Exceptions Submit to provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Proposed Atternative Medical Permit of Clos	sure Fian 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-le	oop system, below-grade sank or alternative request			
Please be advised that approval of this request does not relieve the operator of liability should operation: environment. Nor does approval relieve the operator of its responsibility to comply with any other applications.	is result in pollution of surface water, ground water or the licable governmental authority's rules, regulations or ordinances.			
Operator: XTO Energy, Inc. OGB	RID #: 5380			
Address: #382 County Road 3100, Aztec, NM 87410				
Facility or well name:NEW MEXICO FEDERAL N #2E				
API Number: 30-045-24243 OCD Permit Number:				
U/L or Qtr/Qtr _D Section 17 Township 30N Range 12W				
Center of Proposed Design: Latitude 36.817557 Longitude 108.12681				
Surface Owner: 🗵 Federal 🔲 State 🗀 Private 🗀 Tribal Trust or Indian Allocment				
Pit: Subsection F or G of 19.15.17.11 NMAC	OIL CONS. DIV DIST. 3			
Temporary: Drilling Workover	APR <b>0 5</b> 2017			
Permanent Emergency Cavitation PécA	AIR U D ZUIY			
☐ Lines ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC	C 🗖 Other			
☐ String-Reinforced				
Liner Seams: Welded Factory Other Volume:	bbl Dimensions: l,x Wx D			
Classed-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     Linet   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Liner Seams:   Welded   Factory   Other				
Below-grade tank: Subsection [ of 19.15.17.11 NMAC				

t ,	_
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of burbed wite at top (Required if located within 1000 feet of a permanent residence, school institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other Expanded metal or solid vaulted top  Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  ☐ 12"x 24", 2" tettering, providing Operator's name, site location, and emergency telephone numbers  ☑ Signed in compliance with 19.15.3.103 NMAC	
9.  Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Burea consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	u office for
Sking Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attack justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to disabove-grade tanks associated with a closed-loop system.	approval
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes 🛭 No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes 🖾 No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No 図 NA
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	☐ 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

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   Previously Approved Design (attach copy of design)   API Number:   or Permit Number:
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:
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:   (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to (implement waste removal for closure)    Previously 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
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:  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)  In 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
Previously Approved Operating and Maintenance Plan API Number:
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
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
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
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
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 Cuvitation 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)
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  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 G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D Instructions: Please Indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if a facilities are required.	NMAC) nore than two
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 services [ 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 Rectamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
13.  Siting Critaria (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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disc considered an exception which must be submitted to the Santa Pe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.13.17.10 NMAC for guidance.	rict office or may be
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
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
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
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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plans.	lan. 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.  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 cans  Soit 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	

Operator Application Certification:  I hereby certify that the information submitted with this application is to	rue, accurate and complete to ti	ne best of my knowledge and belief.		
Name (Print): Kim Champlin		Environmental Representative		
Signature: Kim Champlin	Date:	11/14/08		
e-mail address: kim champlin@xtoenergy.com	Telephone:	(505) 333-3100		
OCD Approval: Permit Application (including closure plant)	Sure Plan (only) OCD	Conditions (see attachment)		
OCD Representative Signature:	_	Approval Date: 2/16/17		
Title: Bureau Chief	OCD Permit Num	ber:		
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 I 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:				
		Picture Date:		
Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.	Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)		
23.  Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liq two facilities were utilized.				
Disposal Facility Name:	Disposal Facility P	ermit Number:		
Disposal Facility Name:		ermit Number:		
Were the closed-loop system operations and associated activities perform  Yes (If yes, please demonstrate compliance to the items below)	ned on or in areas that will not	100000000000000000000000000000000000000		
Required for impacted areas which will not be used for future service an				
Site Reclamation (Photo Documentation)	a operations:			
Soil Backfilling and Cover Installation				
Re-vegetation Application Rates and Seeding Technique				
Closure Report Attachment Checklist: Instructions: Each of the folk in the box, that the documents are attached.	lowing items must be attached	to the closure report. Please indicate, by a check		
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)				
☐ Confirmation Sampling Analytical Results (if applicable) ☐ Waste Material Sampling Analytical Results (required for on-site	closure)			
☐ Disposal Facility Name and Permit Number	elosure,			
Soil Backfilling and Cover Installation				
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)				
On-site Closure Location: Latitude	1.ongitude	NAD: 1927 1983		
		14m. P144, P144		
Operator Closure Certification:				
I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure				
N e (Print):	•			
Signature:	Date:			
e-mail address:	Telephone:			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	eatior	and Co	rrective A	ction	1						
						<b>OPERA</b>	ГOR			al Report		Final Repor			
		TO Energy,			_	Contact: Kurt Hoekstra									
		00, Aztec, N				Telephone No.: (505) 333-3100 Facility Type: Gas Well (Basin Dakota)									
		Mexico Feder	rai N # 21			Facility Typ	e: Gas Well (Ba	asın Da	ikota)						
Surface Ow	ner: Feder	al		Mineral C	)wner				API No	.: 30-045-2	24243				
						OF RE			_						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County					
D	17	30N	12W	1110	F	NL	850	]1	FWL	San Juan					
				Latitude 36.8		Longit OF REL	ude -108.12680 EASE	!							
Type of Rele	ase: Produc	ed Water		11721	OIL		Release: 2 BBL'	S	Volume F	Recovered:	2 BBL'	's			
Source of Re						Committee of the committee of the	lour of Occurrence	e:		Hour of Dis		7:			
Was Immedia	ate Notice (	Fiven?				Time: Unk			2-10-201	7 in the afte	rnoon				
Was inniedic			Yes 🗵	No Not R	equired	11 125, 10	· · · · · · · · · · · · · · · · · · ·								
By Whom? N						Date and H									
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	the Wat	ercourse.						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*											
				n Taken.* On Th											
that the pit to and never let the OCD on Leaks, Spill	ank had areft location 2-13-2016 and Relewater sour	n integrity fa a. EH&S was 7 at approximates. The site	ilure and notified nately 2: te was ran	tank emptied. A leaked produce on Monday 2-1 20 pm. The site nked a 10 due to arroyo 200-100	d water 3-2017 was the an esti	into the pit at approxing an ranked ac mated depth	tank cellar. The nately 8:00am. I cording to the N to groundwate	spill v EHS se NMOC r of gre	was contain nt the 48 h D Guidelin eater than	ned within nour requir nes for the 100 feet, gr	the wo ed noti Remed reater t	ood cellar ification to diation of than 1000			
		and Cleanup A			s been c	een confirmed based on an integrity failure of the pit tank, and two (2) BBLs of									
I hereby certi regulations a public health should their of or the environ	fy that the i il operators or the envir operations h nment. In a	information gi are required t ronment. The nave failed to	ven above o report an acceptance adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and r otance of a C-141	release nort by the remediate	otifications as e NMOCD m e contaminati	nd perform correct arked as "Initial I on that pose a three the operator of	ctive act Report" reat to g respons	tions for rele does not re round water sibility for c	eases which lieve the op r, surface w ompliance v	may en erator of ater, hu with any	ndanger of liability uman health			
	///	0 0					OIL CON	SERV	ATION	DIVISIO	<u>NC</u>				
	Kut Hor	Letin													
Signature:						Approved by	Environmental S	st:							
Printed Name	e: Kurt Hoe	kstra													
Title: EHS C	oordinator					Approval Da	te:		Expiration	Date:					
E-mail Addre	ess: Kurt_H	oekstra@xtoe	energy.com	n		Conditions o	f Approval:			Attached	ı 🗆				
Date: 2-16-2	017	P	hone: 505	-333-3100											
* Attach Addi	nonal She	ets If Necess	ary #	DCS 1710	523	39315									

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

Lease Name: New Mexico Federal N # 2E

API No.: 30-045-24243

Description: Unit D, Section 17, Township 30N, Range 12W, 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**

 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 3-14-2017

- 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 3-14-2017
- 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.

The below grade tank has been removed due to an integrity failure of the pit tank.

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 50 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

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

Components	Test Method	Limit (mg/Kg)	Results (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	0.41 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	15.2 mg/kg
TPH	EPA 8015M	100	627 mg/kg
Chloride	USEPA Method 300	250	1110 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 integrity failure of the pit tank a release has been confirmed for this location.
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
  The pit cellar excavation was backfilled using compacted, non-waste containing earthen
  - material..
- 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. Cory Smith, and Ms. Vanessa Fields with the Aztec office of the OCD via email on February 13<sup>th</sup> 2017; 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 February 16<sup>th</sup> 2017; Email has been approved as a means of surface owner notification to the BLM by Brandon Powell, NMOCD Aztec Office.

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

The location will be recontoured to match the above specifications when the well is P & A'd.

12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The site has been backfilled to match these specifications.

13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

The location will be reclaimed pursuant to BLM specifications upon P&A

- 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 BLM Specifications
  - iii. Inspection reports; attached
  - iv. Confirmation sampling analytical results; attached
  - v. Disposal facility name(s) and permit number(s); see above
  - vi. Soil backfilling and cover installation; per BLM Specifications
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **per BLM specifications**
  - viii. Photo documentation of the site reclamation. attached



#### **Analytical Report**

#### **Report Summary**

Client: XTO Energy Inc.

Chain Of Custody Number: 1028

Samples Received: 2/17/2017 12:39:00PM

Job Number: 98031-0528 Work Order: P702027

Project Name/Location: New Mexico Federal N

#2E

Report Reviewed By:	Walter Hinder	Date:	2/22/17	
	Walter Hinchman, Laboratory Director			
	To TC	Date:	2/22/17	
	Tim Cain, Quality Assurance Officer			

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Aztec NM, 87410

Project Name:

New Mexico Federal N #2E

382 CR 3100

Project Number:

98031-0528

Reported:

Project Manager:

Kurt Hoekstra

22-Feb-17 13:48

#### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Cellar	P702027-01A	Soil	02/17/17	02/17/17	Glass Jar, 4 oz.



Project Name:

New Mexico Federal N #2E

382 CR 3100 Aztec NM, 87410 Project Number: Project Manager: 98031-0528 Kurt Hoekstra Reported:

22-Feb-17 13:48

BGT Cellar P702027-01 (Solid)

		Reporting							4
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.41	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
Toluene	2.02	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
Ethylbenzene	0.88	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
p,m-Xylene	8.95	0.20	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
o-Xylene	2.90	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
Total Xylenes	11.9	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
Total BTEX	15.2	0.10	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		120 %	50-	150	1707022	02/17/17	02/17/17	EPA 8021B	:
Nonhalogenated Organics by 8015									4
Gasoline Range Organics (C6-C10)	104	20.0	mg/kg	1	1707022	02/17/17	02/17/17	EPA 8015D	
Diesel Range Organics (C10-C28)	523	25.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1708003	02/20/17	02/22/17	EPA 8015D	1
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	50-	150	1707022	02/17/17	02/17/17	EPA 8015D	1
Surrogate: n-Nonane		138 %	50-	200	1708003	02/20/17	02/22/17	EPA 8015D	
Cation/Anion Analysis									
Chloride	1110	20.0	mg/kg	1	1708001	02/20/17	02/21/17	EPA 300.0	



Aztec NM, 87410

Project Name:

New Mexico Federal N #2E

382 CR 3100

Project Number:

Reporting

98031-0528

Spike

Source

Reported:

Project Manager: Kurt Hoekstra

22-Feb-17 13:48

RPD

%REC

#### **Volatile Organics by EPA 8021 - Quality Control**

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1707022 - Purge and Trap EPA 50	30A									
Blank (1707022-BLK1)				Prepared &	Analyzed:	17-Feb-17	,			
Benzene	ND	0.10	mg/kg							
Tolucne	ND	0.10	**							
Ethylbenzene	ND	0.10	**							
p,m-Xylene	ND	0.20	**							
o-Xylene	ND	0.10	80							
Total Xylenes	ND	0.10	**							
Total BTEX	ND	0.10								
Surrogate: 4-Bromochlorobenzene-PID	7.92		*	8.00		99.0	50-150			
LCS (1707022-BS1)				Prepared &	Analyzed:	17-Feb-17	,			
Benzene	5.62	0.10	mg/kg	5.00		113	70-130			
Toluene	5.59	0.10	**	5.00		112	70-130			
Ethylbenzene	5.63	0.10		5.00		113	70-130			
p,m-Xylene	11.4	0.20		10.0		114	70-130			
o-Xylene	5.46	0.10	**	5.00		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		*	8.00		101	50-150			
Matrix Spike (1707022-MS1)	Sou	rce: P702027-	01	Prepared:	17-Feb-17	Analyzed:	18-Feb-17			
Benzene	5.51	0.10	mg/kg	5.00	0.41	102	54.3-133			
Toluene	6.81	0.10	*	5.00	2.02	96.0	61.4-130			
Ethylbenzene	5.96	0.10		5.00	0.88	102	61.4-133			
p,m-Xylene	17.8	0.20		10.0	8.95	88.7	63.3-131			
o-Xylene	7.50	0.10	*	5.00	2.90	92.1	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	9.48		*	8.00		118	50-150			
Matrix Spike Dup (1707022-MSD1)	Sou	rce: P702027-	01	Prepared:	17-Feb-17	Analyzed:	18-Feb-17			
Benzene	5.69	0.10	mg/kg	5.00	0.41	106	54.3-133	3.17	20	
Toluene	6.90	0.10	*	5.00	2.02	97.7	61.4-130	1.24	20	
Ethylbenzene	6.16	0.10	**	5.00	0.88	106	61.4-133	3.16	20	
p,m-Xylene	17.9	0.20	**	10.0	8.95	89.5	63.3-131	0.475	20	
o-Xylene	7.61	0.10	**	5.00	2.90	94.2	63.3-131	1.41	20	
Surrogate: 4-Bromochlorobenzene-PID	9.55			8.00		119	50-150			

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com



Project Name:

New Mexico Federal N #2E

382 CR 3100 Aztec NM, 87410 Project Number:

98031-0528

Reported:

Project Manager:

Kurt Hoekstra

22-Feb-17 13:48

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707022 - Purge and Trap EPA 5030A										4
Blank (1707022-BLK1)				Prepared &	Analyzed:	17-Feb-17				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: I-Chloro-4-fluorobenzene-FID	7.73		*	8.00		96.7	50-150			
LCS (1707022-BS1)				Prepared &	Analyzed:	17-Feb-17			_	
Gasoline Range Organics (C6-C10)	58.1	20.0	mg/kg	60.9		95.5	70-130			4
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		•	8.00		89.1	50-150			ě
Matrix Spike (1707022-MS1)	Sou	rce: P702027-	01	Prepared:	7-Feb-17	Analyzed:	8-Feb-17			
Gasoline Range Organics (C6-C10)	155	20.0	mg/kg	60.9	104	82.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		*	8.00		96.2	50-150			
Matrix Spike Dup (1707022-MSD1)	Sou	rce: P702027-	01	Prepared:	7-Feb-17	Analyzed: 1	8-Feb-17			
Gasoline Range Organics (C6-C10)	146	20.0	mg/kg	60.9	104	68.3	70-130	5.79	20	SPKI
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40	-	*	8.00		92.5	50-150			



Project Name:

New Mexico Federal N #2E

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager:

Kurt Hoekstra

22-Feb-17 13:48

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1708003 - DRO Extraction EPA 3570										
Blank (1708003-BLK1)	1			Prepared: 2	20-Feb-17	Analyzed: 2	22-Feb-17			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0								
Surrogate: n-Nonane	40.1		"	50.0		80.3	50-200			
LCS (1708003-BS1)	1			Prepared: 2	20-Feb-17	Analyzed: 2	22-Feb-17			
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500		94.9	38-132			
Surrogale: n-Nonane	40.4		*	50.0		80.7	50-200			
Matrix Spike (1708003-MS1)	Sou	rce: P702026-	02	Prepared: 2	20-Fcb-17	Analyzed: 2	22-Feb-17			
Diesel Range Organics (C10-C28)	507	25.0	mg/kg	500	ND	101	38-132			
Surrogate: n-Nonane	41.7		*	50.0		83.4	50-200			
Matrix Spike Dup (1708003-MSD1)	Sou	rce: P702026-	02	Prepared:	20-Feb-17	Analyzed: 2	22-Feb-17			
Diesel Range Organics (C10-C28)	503	25.0	mg/kg	500	ND	101	38-132	0.798	20	
Surrogate: n-Nonane	43.9		,,	50.0		87.7	50-200			



Project Name:

New Mexico Federal N #2E

382 CR 3100 Aztec NM, 87410 Project Number: Project Manager: 98031-0528 Kurt Hoekstra

Reported:

22-Feb-17 13:48

#### Cation/Anion Analysis - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1708001 - Anion Extraction EPA 300.0										
Blank (1708001-BLK1)				Prepared: 2	20-Feb-17	Analyzed: 2	1-Feb-17			
Chloride	ND	20.0	mg/kg							
LCS (1708001-BS1)				Prepared: 2	20-Feb-17	Analyzed: 2	1-Feb-17			
Chloride	514	20.0	mg/kg	500		103	90-110			
Matrix Spike (1708001-MS1)	Sour	ce: P702027-	01	Prepared: 2	20-Feb-17	Analyzed: 2	1-Feb-17			
Chloride	1570	20.0	mg/kg	500	1110	92.5	80-120			
Matrix Spike Dup (1708001-MSD1)	Sour	ce: P702027-	01	Prepared: 2	20-Feb-17	Analyzed: 2	1-Feb-17			
Chloride	1560	20.0	mg/kg	500	1110	89.9	80-120	0.840	20	



Project Name:

New Mexico Federal N #2E

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager:

Kurt Hoekstra

22-Feb-17 13:48

#### **Notes and Definitions**

SPK1

The spike recovery is outside of quality control limits.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

Rust

111		Quo	te Number			- 1 - 1			An	alysis/	onta	ner	L	ab Information
XTO			Contact		,	Page of KTO Contact Phot 505-486-4	ne #	9					9	8031-0528
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#### Hoekstra, Kurt

From: Hoekstra, Kurt

**Sent:** Thursday, February 16, 2017 3:48 PM **To:** Whitney Thomas (l1thomas@blm.gov)

**Subject:** BGT Closure New Mexico Federal N # 2E

Please accept this email as the required notification for BGT closure activities at the New Mexico Federal N # 2E well site (API #30-

045-24243) located in

Unit D, Section 17, Township 30N, Range 12W, San Juan County, New Mexico. This below grade tank is being closed due To an integrity failure of this below grade tank.

Thank You for your time in regards to this matter.

Kurt Hoekstra
EHS Coordinator
XTO Energy
505-333-3202 Office
505-486-9543 Cell
Kurt Hoekstra@xtoenergy.com
An ExxonMobil Subsidiary

#### Hoekstra, Kurt

From:

Hoekstra, Kurt

Sent:

Monday, February 13, 2017 2:53 PM

To:

Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); McDaniel,

James (James\_McDaniel@xtoenergy.com); Hixon, Logan

Subject:

72 hour BGT closure activities

Mr. Smith and Ms. Fields,

Please accept this email as the required 72 hour notification for BGT closure activities at the New Mexico Federal N # 2E well site API #

(30-045-25532) located in Section 17D, Township 30N, Range 12W, San Juan County, New Mexico. This BGT is being closed

Due to the pit tank having an integrity failure . Work is tentatively scheduled for Friday February 17, 2017 at approximately

9:00 am. The request for the approved closure plan only, has been submitted to Santa Fe.

Thank you for your time in regards to this matter.

Kurt Hoekstra
EHS Coordinator
XTO Energy
505-333-3202 Office
505-486-9543 Cell
Kurt Hoekstra@xtoenergy.com
An ExxonMobil Subsidiary

Ground



Division: Denver

Dates: 6/1/2008-2/1/2017

Type: RouteStop
Type Value: NEW MEXICO

#### Well Below Grade Tank Inspection

Foreman Well Name API Well Range Towns DEN NM Run 46 Jensen, Dustin Durham, MEXICO MEXICO FEDERAL N 002E Inspector Name Record Date Inspection Time Freeboa Pit rd Est Locatio Visible Visible Visible Tank Collection Of Visible Pit Type Notes Liner Tears Liner Leak Layer Oil Tears Overflow Run 8/20/2008 11:00 mg No No No No No 9/13/2008 10:00 Yes No No No 10/3/2008 10:00 No No No No

Mr. Cory Smith
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410

Email: cory.smith@state.nm.us Phone (505) 334-6178 Ext 115

#### RE: VARIANCE REQUEST FOR 19.15.17 NMAC TABLE I AND TABLE II

Mr. Smith,

Please accept this letter as a variance request as outlined in 19.15.17.15(A) NMAC. XTO Energy would like to request the replacement of USEPA Method 418.1 for the analysis of Total Petroleum Hydrocarbons (TPH) for USEPA Method 8015M, measuring carbon ranges C6-C36, for all sampling associated with closures and confirmations samples in relation to 19.15.17 NMAC, both in Table I and Table II (2103) and the 'pit rule' passed in 2008.

XTO Energy is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C<sub>8</sub> through C<sub>40</sub> (Reference: American Petroleum Institute). The attached table demonstrates the carbon ranges, and the typical hydrocarbon products that can be found in those ranges. As you can see, lube oil ranges from C<sub>28</sub>-C<sub>35</sub>. Analytical Method USEPA 418.1 extends past lube oils from C<sub>35</sub> through C<sub>40</sub>. This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C<sub>6</sub>-C<sub>10</sub> for GRO, C<sub>10</sub>-C<sub>28</sub> for DRO, and C<sub>28</sub>-C<sub>36</sub> for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C<sub>6</sub>, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C<sub>36</sub>-C<sub>40</sub>, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment. With your acceptance of this variance request, XTO Energy will begin utilizing USEPA Method 8015M in place of USEPA Method 418.1 for all sampling activities associated with 19.15.17 NMAC, both from the rules passed in 2008 and 2013.

Respectfully Submitted.

James McDaniel, CHMM #15676

EH&S Supervisor XTO Energy, Inc. Western Division **Carbon Ranges of Typical Hydrocarbons** 

Hydrocarbon	<b>Carbon Range</b>
Condensate	C2-C12
Aromatics	C5-C7
Gasoline	C7-C11
Kerosene	C6-C16
Diesel Fuel	C8-C21
Fuel Oil #1	C9-C16
Fuel Oil #2	C11-C20
Heating Oil	C14-C20
Lube Oil	C28-C35



