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  Conservation Division V 22D South St. Francis Dr. Santa Fe, NM 87505  Conservation Division Santa Fe, NM 87505	Form C-144 July 21, 2008  For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Proposed Alternative Method Permit or Closure P  Type of action:  Existing BGT  Closure of a pit, closed-loop system, below-grade tank, or Modification to an existing permit  Closure plan only submitted for an existing permit  Closure plan only submitted for an existing permit or below-grade tank, or proposed alternative method  Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system.  Please be advised that approval of this request does not relieve the operator of liability should operations result in	Cank, or Can
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governorment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governorment.   OGRID #:	inty: San Juan
Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary: Drilling Workover   Permanent Emergency Cavitation P&A   Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Oth   String-Reinforced   Liner Seams: Welded Factory Other Volume:bbl	
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 intent)   Drying Pad Above Ground Steel Tanks Haul-off Bins Other   Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Liner Seams: Welded Factory Other   Other	
4.    Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume: 21	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environment	ntal Bureau office for consideration of approval

s.  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,	hosp	ital,	
institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet			
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing			
7.			
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)			
Screen Netting Other Expanded metal or solid vaulted top			
Monthly inspections (If netting or screening is not physically feasible)			
8.			
Signs: Subsection C of 19.15.17.11 NMAC			
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  ☐ Signed in compliance with 19.15.3.103 NMAC			
△ Signed in comphance with 15.15.5.105 NotAC			
9. Administrative Approvals and Exceptions:			
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.			
Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	office	e for	
consideration of approval.			
Exception(s): Requests must be submitted to the Santa Fc Environmental Bureau office for consideration of approval.		-	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce, material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriat upprov	e distrio val.	
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	$\boxtimes$	Yes [	No 6/3/
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	X	Yes 🔀	<del>No</del>
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 ⊠ NA	l No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)		Yes □ NA	No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		Yes 🗌	l 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 search; 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.  - 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
<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>		Yes 🏻	No
Within a 100-year floodplain FEMA map	⊠	Yes 🗌	No

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Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.12 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:
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   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 Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only) ☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Oround 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  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  NN Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  NN Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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  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  Within 500 horizontal feet of a private, domestic 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  Within incorporated municipal boundaries or within a defined municipal 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  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.  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society, Topographic map  Within a 100-year floodplain.  FEMA map      Na	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquid		
Disposal Facility Parmit Number:  Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operat   ves (19 ves, 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 I of 19.15.17.13 NMAC    See-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Siting Criteria (regarding on-thic closure methods only): 19.15.17.10 NNAC    Ground water is less than 50 feet below the bottom of the buried waste.  NM Office of the State Engineer - iWATRES database search; USOS; Data obtained from nearby wells    NA Cround water is more than 100 feet below the bottom of the buried waste.  NM Office of the State Engineer - iWATRES database (search; US	ļ* ·	Disposal Facility Permit Number	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations:   Set (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 II of 19.15.17.13 NMAC   Re-regetation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC   Sites Rechamation Plan - based upon the subsection of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   NA   Sites Rechamation Plan - based upon the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   NA   NA   Sites Rechamation Plan - State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   NA   NA   NA   Sites Rechamation Plan - State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   NA   NA   NA   NA   NA   NA   NA   N	1		
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 10 (19.15.17.13 NMAC)  Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC  Instructions: Each stiling criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain stiling criteria may require administrative approval from the appropriate district office or considered an exception which mast be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.  Ground water is less than 50 feet below the bottom of the buried waste.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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  Ground water is more than 106 feet below the bottom of the buried waste.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Within 300 feet of a continuously flowing watercourse, or 200 feet of any obter fresh water water or proposed site 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, Arali 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 that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well o	Will any of the proposed closed-loop system operations and associated activities		
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NNAC   Instructions: Each stiling criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain stiling criteria may require administrative approval from the appropriate district office or considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/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.	Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection	ate requirements of Subsection H of 19.15.17.13 NMAC on I of 19.15.17.13 NMAC	C
Oround water is between 50 and 100 feet below the bottom of the buried water.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  NA Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Oround 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  NA Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  Topographic map; Visual inspection (certification) of the proposed site  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  Within 500 horizontal feet of a private, domestic fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - IWATERS database; Visual inspection (eretification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well or spring, in existence at the time of initial application.  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological  Society; Topographic map  Within a 100-year floodplain.  FEMA map     NA   On Strike Closure Plan Checklist: (19.15.17.13 NMAC)   Instructions: Each of the following items must be attached to the closure plan. Please Into Py a check mark in the box, that the documents are attached.    Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC   Construction/Design Plan of Temporary Pit (f	Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMA( Instructions: Each siting criteria requires a demonstration of compliance in t provided below. Requests regarding changes to certain siting criteria may req considered an exception which must be submitted to the Santa Fe Environmen	he closure plan. Recommendations of acceptable sour uire administrative approval from the appropriate disti ntal Bureau office for consideration of approval. Justi,	rict office or may be
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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 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  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  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  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  Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map     Ves	l control of the cont	Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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  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, derial 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.  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.  Witten confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  Written confirmation or verification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  FEMA map     NA		Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
lake (measured from the ordinary high-water mark).  - 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.  - 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.  - 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.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map     On-Site Closure Plan Checklist:   (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please into by a check mark in the box, that the documents are attached.    Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC   Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC   Confirmation Sampling Plan of Burial Trench (if applicable) based upon t		Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
- 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.  - 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.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map  Distriction Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC    Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC    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    Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC    Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	lake (measured from the ordinary high-water mark).	significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
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  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.  Wirten confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  FEMA map   Table Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please inably a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC  Construction Sampling Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC  Construction Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Wate Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  FEMA map  It.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please into 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 19.15.17.11 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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	watering purposes, or within 1000 horizontal feet of any other fresh water well of	or spring, in existence at the time of initial application.	☐ Yes ☐ No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map  IS.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please into 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 19.15.17.11 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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	adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	·	☐ Yes ☐ No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map     Yes   1		sual inspection (certification) of the proposed site	☐ Yes ☐ No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain FEMA map    Yes   1		ing and Mineral Division	☐ Yes ☐ No
Within a 100-year floodplain.  FEMA map    Yes   18.	- Engineering measures incorporated into the design; NM Bureau of Geol	ogy & Mineral Resources; USGS; NM Geological	☐ 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. Please ind 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 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			☐ Yes ☐ No
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved. ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC. ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC.	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements. Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a dryin Protocols and Procedures - based upon the appropriate requirements of 19.  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements. Waste Material Sampling Plan - based upon the appropriate requirements. Disposal Facility Name and Permit Number (for liquids, drilling fluids an Soil Cover Design - based upon the appropriate requirements of Subsection.	requirements of 19.15.17.10 NMAC s of Subsection F of 19.15.17.13 NMAC expropriate requirements of 19.15.17.11 NMAC g pad) - based upon the appropriate requirements of 19.1 0.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC d drill cuttings or in case on-site closure standards cannot on H of 19.15.17.13 NMAC	15.17.11 NMAC

*1		
Operator Application Certification:  I hereby certify that the information submitted with this application is true, according to the content of the content	urate and complete to th	ne best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim ChampCin	Date:	11-26-08
e-mail address: kim_champlin@xtoenergy.com		(505) 333-3100
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	forther. Kall	4 6/26/3 Approval Date: 6/3/13
Title: Semoz Hydreday, st	OCD Permit Numl	Ctics
21. Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior. The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	r to implementing any of f the completion of the	closure activities and submitting the closure report. closure activities. Please do not complete this been completed.
22.  Closure Method:  Waste Excavation and Removal On-Site Closure Method Alter  If different from approved plan, please explain.	native Closure Method	☐ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, di two facilities were utilized.  Disposal Facility Name:  Disposal Facility Name:  Were the closed-loop system operations and associated activities performed on	rilling fluids and drill c  Disposal Facility Po  Disposal Facility Po	entings were disposed. Use attachment if more than ermit Number:  ermit Number:
☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No  Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) ☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique	ations:	
Closure Report Attachment Checklist: Instructions: Each of the following 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  Long		to the closure report. Please indicate, by a check  NAD: 1927 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require Name (Print):  Signature:  e-mail address: James Mc Janiel Oxfoenergy (and the complex of t	Title: Elly	
	MW WW	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

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

Revised October 10, 2003

Form C-141

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 □ Fi									
Name of Co				Contact: James McDaniel											
							Telephone No.: (505) 333-3202								
Facility Nar	ne: ROPC	O 16 #1 (30	0-045-309	942)		Facility Type: Gas Well									
Surface Ow	ner: State			Mineral (	Owner:				Lease 1	No.					
				LOC	ATION	N OF REI	LEASE								
Unit Letter B	nit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line									County San Juan					
	Latitude: 36.731233 Longitude: -108.311363														
				D. I. A. FI		OF DEL									
T CD I	D	1 11/-4	···	NAI	UKE	OF RELI			37.1	)					
Type of Rele		ced Water w Grade Tank					Release: Unknow			Recovered: None Hour of Discovery: 5/3/2013					
Source of Re	icase. Delo	w Grade rain	•			Unknown	iour or occurrent	ж.	Date and	110df 01 Discovery. 3/3/2013					
Was Immedia	ate Notice (					If YES, To	Whom?		<u> </u>						
			Yes _	] No 🖾 Not R	equired										
By Whom?						Date and F									
Was a Water	course Reac		Yes ⊠	] No		If YES, Vo	lume Impacting t	the Wate	ercourse.	•					
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*											
Describe Cau					adua ta r	maintananaa	maradas at this fo	ailitu	The DCT	cellar was sampled for TPH via					
										below the 'Pit Rule' spill					
confirmation	standards f	or TPH, total	BTEX and	d chlorides, but al	oove the	250 ppm chlo	oride standard at	480 ppm	n, confirmir	ng that a release has occurred at					
										ases. The site was ranked a 40					
TPH, 10 ppm					a distanc	te to surface v	water of less than	200 fee	t. This set t	the closure standard to 100 ppm					
							,,,, <u></u>								
Describe Are A release has				cen.											
					·										
										suant to NMOCD rules and					
regulations al	or the envi	are required i ronment The	o report at acceptant	nd/or file certain i	release no	NMOCD m	id periorm correct arked as "Final R	tive act enort" d	ions for rei loes not rel	eases which may endanger ieve the operator of liability					
										r, surface water, human health					
				otance of a C-141	report do	oes not reliev	e the operator of	respons	ibility for c	ompliance with any other					
federal, state,	or local lay	vs and/or regu	ilations.				OIL COM	CEDV	ATION	DIVICION					
		- [		-11722	250		OIL CON	<u>SEK v</u>	ATION	DIVISION					
Signature: /	<u> </u>	Je-	/	TARDO	ŪS S										
Printed Name	: James Mo	Daniel, CHM	, IM #1567	NES P.	NC .	pproved by	District Supervis	or:							
Title: EH&S	Supervisor			15% 15%	77 %	Expiration Date:									
E-mail Addre	ss: James	McDaniel@xt	oenergy c		O M		Approval:			_					
2 man rudic				Bis WW			ppro .an			Attached					
Date: 6/10/20	013	Phone: 505	-333-3701	33-3701 44 16 2016											

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

Lease Name: ROPCO 16 #1 API No.: 30-045-30942

Description: Unit B, Section 16, Township 29N, Range 14W, San Juan County

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

# General Plan

1. XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

Closure Date is May 10, 2013

- 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 March 10, 2013
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.

Required C-144 Form is attached to this document.

4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005

Produced water

All liquids and sludge were removed from the tank prior to closure activities.

5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

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

All equipment will remain on-site for the continued production of oil and gas.

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	< 0.0027 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.0406 mg/kg
ТРН	EPA SW-846 418.1	100	26.7 mg/kg
Chlorides	EPA 300.1	250 or background	480 mg/kg
TPH (Spill Rule)	EPA Method 8015 Modified	100	< 4.95 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 levels of 480 ppm, a release has been confirmed for this location. A C-141 Release Notification form will be sent outlining any remediation activities taken regarding this release.

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

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

- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
  - i. Operator's name
  - ii. Well Name and API Number
  - iii. Location by Unit Letter, Section, Township, and Range

Notification was provided to Mr. Brandon Powell with the Aztec office of the OCD via email on May 3, 2013; 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 May 3, 2013 via email. See the attached email printout.

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 upon the plugging and abandoning of this well location.

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

The site has been backfilled to match these specifications.

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

The location will be reclaimed pursuant to landowner specifications upon the plugging and abandoning of this well location.

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - i. Proof of closure notice to division and surface owner; attached
  - ii. Details on capping and covering, where applicable; per OCD Specifications
  - iii. Inspection reports; attached
  - iv. Confirmation sampling analytical results; attached
  - v. Disposal facility name(s) and permit number(s); see above
  - vi. Soil backfilling and cover installation; per OCD Specifications
  - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **NA**
  - viii. Photo documentation of the site reclamation. attached



# **Analytical Report**

## **Report Summary**

Client: XTO Energy Inc.

Chain Of Custody Number: XTO 001 Samples Received: 5/2/2013 2:45:00PM

> Job Number: 98031-0528 Work Order: P305006

Project Name/Location: Ropco 16 #1

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date: 5/6/13

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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.



XTO Energy Inc.

382 CR 3100

Aztec NM, 87410

Project Name:

Ropco 16 #1

Project Number:

Project Manager:

98031-0528

James McDaniel

Reported:

06-May-13 10:06

# **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Closure	P305006-01A	Soil	05/02/13	05/02/13	Glass Jar, 4 oz.

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410 Project Name:

Ropco 16#1

Project Number:

98031-0528

Project Manager:

James McDaniel

Reported:

06-May-13 10:06

# BGT Closure P305006-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	26.7	20.0	mg/kg	1	1318038	03-May-13	03-May-13	EPA 418.1	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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

envirotedi-taccon Eboetory@anvirotedi-taccon



XTO Energy Inc. 382 CR 3100 Aztec NM, 87410 Project Name:

Ropco 16#1

Project Number:

98031-0528

Project Manager:

James McDaniel

Reported:

06-May-13 10:06

## Total Petroleum Hydrocarbons by 418.1 - Quality Control

# **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1318038 - 418 Freon Extraction					<del></del>					
Blank (1318038-BLK1)				Prepared &	Analyzed:	03-May-13	3			
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1318038-DUP1)	Soui	ce: P305006-	01	Prepared & Analyzed: 03-May-13			3			
Total Petroleum Hydrocarbons	22.7	20.0	mg/kg		26.7		•	16.3	30	
Matrix Spike (1318038-MS1)	Source: P305006-01			Prepared & Analyzed: 03-May-13			3			
Total Petroleum Hydrocarbons	1730	20.0	mg/kg	2000	26.7	85.4	80-120			

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XTO Energy Inc.

Project Name:

Ropco 16#1

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager:

James McDaniel

06-May-13 10:06

#### Notes and Definitions

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

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ENERGY		J	Jai	Emai	Results	to: Clo Xhoeregi	1.000						Office Abbreviations
Western Divisio	<u>n</u>	Logar	-O Lo	gan-1	Fixon	O XIn Cite 19	11000						rmington = FAR urango = DUR
Well Site/Location Ropco 16 #4		76-049	I Number 5 3099	17_	BaT	- C/ASUICE						Во	ıkken = BAK
Logan Hixon			iples on Ice (Y/N)			<u>Turnaround</u> andard						1	iton = RAT ceance = PC
Company		QA/QC Requested			77.	ext Day wo Day							osevelt = RSV Barge = LB
Signature						hree Day I. 5 Bus. Days (by	contract)	7				Or	angeville = OV
Joy H		Gray Areas	for Lab Us	e Only!	Date N			87.		ľ			
· Sample ID	Sam	ple Name	Media	Date	Time	Preservative	No. of Conts.	]					Sample Number
Far LH 050213-11:50		Closure	5	5-2-13	11:30	(001	1-402	X				Y	305004-01
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<u>Media :</u> Filter = F Soil = S Waste	water = WV	V Groundwal	er = GW D	rinking V	Vaster = C	)W Sludge = SG S	l urface Wate	r = SW	Air = A	Drill N	Aud = D	OM Other =	от
Relinquished By: (Signature)			Date: (-7-)	2	Time: /4:00	Received By: (Sig	nature)			P	lumbe	er of Bottle	s Sample Condition
V 11		Date:	<u> </u>	Time:	Received By (Sig	nature)		7	7	empe	rature:		
Relinquished By: (Signature)		Date:		Time:	Time: Received for Lab by: (\$i		.ab by: (Signature)			Date: 5-2-1	Time: 3 2:450	Other Information	
Comments			·				-			T			

<sup>\*</sup> Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200



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

Tuesday May 07, 2013

Report Number: L633745
Samples Received: 05/03/13
Client Project:

Description: Ropco 16 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:

Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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.

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REPORT OF ANALYSIS

May 07,2013

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

ESC Sample # : L633745-01

Date Received : May
Description : Ropco 16 1

03, 2013

Site ID :

Sample ID

FAR LH-050213

Project # :

Collected By : Logan Hixon Collection Date : 05/02/13 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	480	11.	mg/kg	9056	05/06/13	1
Total Solids	91.2	0.100	96	2540 G-2011	05/07/13	1
Benzene Toluene Ethylbenzene Total Xylene TPH (GC/FID) Low Fraction Surrogate Recovery-%	BDL BDL BDL BDL BDL	0.0027 0.027 0.0027 0.0082 0.55	mg/kg mg/kg mg/kg mg/kg mg/kg	8021/8015 8021/8015 8021/8015 8021/8015 GRO	05/05/13 05/05/13 05/05/13 05/05/13 05/05/13	5 5 5 5
a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)	101. 100.		% Rec. % Rec.	8021/8015 8021/8015	05/05/13 05/05/13	5 5
TPH (GC/FID) High Fraction	BDL	4.4	mg/kg	3546/DRO	05/06/13	1
Surrogate recovery(%) o-Terphenyl	66.6		% Rec.	3546/DRO	05/06/13	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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

Aztec, NM 87410

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Est. 1970

Quality Assurance Report Level II

L633745

May 07, 2013

			oratory E	ll ank						
Analyte	Result		its	% Rec		Limit		Batch	Date	Analyze
Benzene	< .0005	mq	/kg					WG659650	05/05	/13 00:
Ethylbenzene	< .0005	mg	/kg					WG659650	05/05	/13 00:
Toluene	< .005		/kg					WG659650		
TPH (GC/FID) Low Fraction	< .1		/kg					WG659650		
Total Xylene	< .0015		/kg					WG659650		
a, a, a-Trifluorotoluene (FID)			Rec.	101.4		59-128		WG659650		
a,a,a-Trifluorotoluene(PID)		8	Rec.	100.5		54-144		WG659650	05/05	713 00:
TPH (GC/FID) High Fraction	< 4		/kg	75 7	0	50 350		WG659647		
o-Terphenyl		*	Rec.	75.7	U	50-150		WG659647	05/06	713 08:
Total Solids	< .1	%						WG659621	05/07	/13 09:
Chloride	< 10	mg	/kg					WG659670	05/06	/13 13:
			Duplicat							
Analyte	Units	Result	Dupli	cate	RPD	Limit		Ref Sam	2	<u>Bat</u> ch
Total Solids	8	93.0	91.2		1.64	5		L633745	-01	WG6596
Chloride	mg/kg	260.	270.	. 3.77		20	L633551-01		-01	WG6596
Chloride	mg/kg	440.	440.		0	20		L633745-	-01	WG6596
		Laborat	ory Contr	ol Samp	le					
Analyte	Units	Known	Val	Res	ult	% Rec		Limit		Batch
Benzene	mg/kg	.05		0.0430		86.0		76-113		WG6596
Ethylbenzene	mg/kg	.05		0.045	2	90.4		78-115		WG6596
Toluene	mg/kg	.05		0.043	7	87.4		76-114		WG6596
Total Xylene	mg/kg	.15		0.138		92.2		81-118		WG65965
a,a,a-Trifluorotoluene(PID)						99.74		54-144		WG65965
TPH (GC/FID) Low Fraction	mg/kg	5.5		5.89		107.		67-135		WG6596
a,a,a-Trifluorotoluene(FID)						102.1		59-128		WG6596
TPH (GC/FID) High Fraction	mg/kg	60		39.2		65.4		50-150		WG6596
o-Terphenyl						70.70		50-150		WG6596
Total Solids	8	50		50.0		100.		85-115		WG65962
Chloride	mg/kg	200	200		<del></del>	97.5		80-120		WG6596
		boratory C			plicate					
Analyte	Units F	esult	Ref	%Rec		Limit	RPD	Lin	nit	Batch
Benzene	mg/kg C	.0479	0.0430	96.0		76-113	10.7	20		WG6596
Ethylbenzene			0.0452	101.		78-115	10.8	20		WG6596
Toluene			0.0437	97.0		76-114	10.8	20		WG6596
Total Xylene	mg/kg 0	.155	0.138	103.		81-118	11.1	20		WG6596
a,a,a-Trifluorotoluene(PID)				100.2		54-144				WG6596
TPH (GC/FID) Low Fraction	mg/kg 6	.03	5.89	110.		67-135	2.49	20		WG6596
<pre>a,a,a-Trifluorotoluene(FID)     * Performance of this Analyt</pre>				102.4		59-128				WG6596

<sup>\*</sup> Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOURILAS OF CHOICE

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

Aztec, NM 87410

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L633745

May 07, 2013

		Laborator	y Control	Sample Dupl	licate				
Analyte	Units	Result	Ref	%Rec		Limit	RPD	Limit	<u>Bat</u> ch
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	40.6	39.2	68.0 71.80		50-150 50-150	3.51	20	WG65964 WG65964
Chloride	mg/kg	195.	195.	98.0		80-120	0	20	WG65967
			Matrix	Spike					
Analyte	Units	MS Res	Ref F		% Rec	Limit		Ref Samp	Batch
Benzene	mg/kg	0.218	0	.05	87.1	32-13	7	L633745-01	WG65965
Ethylbenzene	mg/kg	0.231	0	.05	92.2	10-15	)	L633745-01	WG65965
Toluene	mg/kg	0.226	0	.05	90.3	20-14:	2	L633745-01	WG65965
Total Xylene	mg/kg	0.705	0	.15	94.0	16-14	1	L633745-01	WG65965
a,a,a-Trifluorotoluene(PID)					100.3	54-14	4		WG65965
TPH (GC/FID) Low Fraction	mg/kg	22.4	0.056	6 5.5	81.4	55-10	9	L633745-01	WG65965
a,a,a-Trifluorotoluene(FID)					100.3	59-12	3		WG65965
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	34.5	0	60	57.6 55.60	50-150 50-150	-	L633684-14	WG65964 WG65964
-		Mat	riv Snike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.287	0.218	115.	32-137	27.5	39	L633745-01	WG65965
Ethylbenzene	mg/kg	0.295	0.231	118.	10-150	24.4	44	L633745-01	WG65965
Toluene	mg/kg	0.289	0.226	116.	20-142	24.7	42	L633745-01	WG65965
Total Xylene	mg/kg	0.901	0.705	120.	16-141	24.4	46	L633745-01	WG65965
a,a,a-Trifluorotoluene(PID)	3. 3			90.39	54-144			· · · · · · · · · · · · · · · · · · ·	WG65965
TPH (GC/FID) Low Fraction	mg/kg	25.4	22.4	92.3	55-109	12.6	20	L633745-01	WG65965
a,a,a-Trifluorotoluene(FID)	, ,			99.47	59-128	. •			WG65965
TPH (GC/FID) High Fraction	mg/kg	37.3	34.5	62.2	50-150	7.81	20	L633684-14	WG65964
o-Terphenyl				60.20	50-150				WG65964

Batch number /Run number / Sample number cross reference

WG659650: R2652800: L633745-01 WG659647: R2653140: L633745-01 WG659621: R2655220: L633745-01 WG659670: R2656180: L633745-01

<sup>\*</sup> 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.'



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

Aztec, NM 87410

Quality Assurance Report Level II

1.633745

May 07, 2013

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Est. 1970

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.

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<sup>\*</sup> Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

From:

Hixon, Logan

To:

BRANDON POWELL (brandon.powell@state.nm.us); itaschek@slo.state.nm.us

Cc:

McDaniel, James; Hoekstra, Kurt

Subject:

Ropco 16 #1 (30-045-30942) BGT Closure Notification (21 BBL)

Date:

Friday, May 03, 2013 5:54:00 AM

**Attachments:** 

image001.png

# Brandon & John Taschek,

Please accept this email as the required notification for the BGT closure activities at the following site:

Ropco 16 #1 (30-045-30942) Located in Section 16, Township 29N, Range 14W, San Juan County New Mexico

This below grade tank is being closed due upgrades being made to this site. Thank you for your time in regards to this matter.



Thank You! Logan Hixon Western Division 382 CR 3100 Aztec NM 87410 Office (505)333~3683 Cell (505) 386~8018 Logan Hixon@xtoenergy.com



# Well Below Tank Inspection Report

DEN NM Run 69 ROPCO 16 001		Griswold, Marcia Morrow, Pete		ROPCO 16 01			3004530942		16 14W	29N		
InspectorNam e	Inspection Date	Inspectio n Time	Visible LinerTears	VisibleTankLeak Overflow	Collection OfSurfaceRun			Freeboard EstFT	PitLocation	PitType	Notes	
BJ Perry	08/25/2008	13:00	No	No	No	No	No	6				
BJ Perry	08/25/2008	13:05	No	Yes	No	Yes	No	2				
BJ Perry	09/15/2008	12:00	No	No	No	No	No	6	Well Water	Pi Below Ground		
BJ Perry	10/30/2008	10:30	No	No	No	No	No	6	Well Water	Pi Below Ground		
BJ Perry	02/06/2009	10:00	No	No	No	No	No	5	Well Water	Pi Below Ground		
BJ Perry	02/06/2009	13:00	No	No	No	No	No	5	CDP Water	Pi Above Ground	PIT CHANGE	D
gene martin	05/29/2009	08:30	No	No	No	No	No	5	Well Water	Pi Below Ground		
gene martin	10/26/2009	03:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	01/30/2010	02:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	05/04/2010	12:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	06/11/2010	11:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	08/27/2010	11:00	No	No	No	No	No	5	Well Water	Pi Below Ground		
gene martin	09/20/2010	09:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	12/21/2010	11:00	No	No	No	No	No	5	Well Water I	Pi Below Ground		
gene martin	8/24/2011	11:00	No	No	No	No	No -	5	Well Water	Pi Below Ground		

# XTO Energy, Inc. ROPCO 16 #1 Section 16, Township 29N, Range 14W Closure Date: 5/10/2013

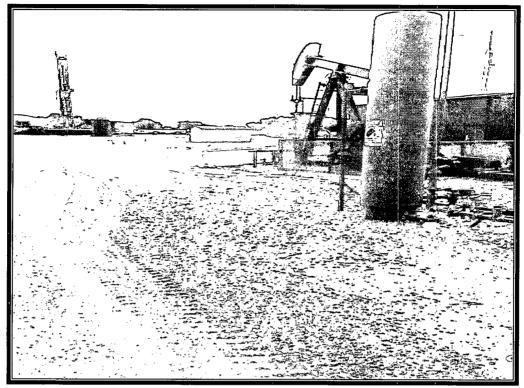


Photo 1: ROPCO 16 #1 after Closure and Backfill

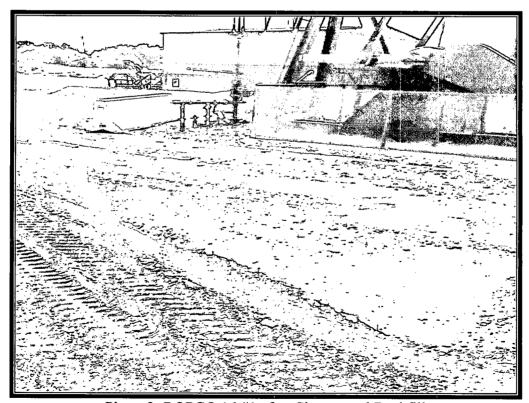


Photo 2: ROPCO 16 #1 after Closure and Backfill