<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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 Fier NM 87505 4 38	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.
Pit, C	losed-Loop System, Below-Grade	<u>Fank, or</u>
Proposed Alte	ernative Method Permit or Closure I	Plan Application
Existing BGT Closu	t of a pit, closed-loop system, below-grade tank, or re of a pit, closed-loop system, below-grade tank, fication to an existing permit re plan only submitted for an existing permitted or sed alternative method	or proposed alternative method
Instructions: Please submit one application	ution (Form C-144) per individual pit, closed-loop syst	em, below-grade tank or alternative request
environment. Nor does approval relieve the operator	ot relieve the operator of liability should operations result is of its responsibility to comply with any other applicable ge	
1. Operator: XTO Energy, Inc.	OGRID #:	5380
	NM 87410	
	OCD Permit Number:	
	ship32 <u>N</u> Range14 <u>W</u> County:	
Center of Proposed Design: Latitude	889 Longitude 108.2988889	NAD: 1927 🛛 1983
	Tribal Trust or Indian Allotment	
2.		
<u>Pit</u> : Subsection F or G of 19.15.17.11 NM.		
Temporary: Drilling Workover		
Permanent Emergency Cavitation	P&A	
Lined Unlined Liner type: Thickness	mil 🔲 LLDPE 🗋 HDPE 🗋 PVC 🗍 O	ther
String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bb	1 Dimensions: L x W x D
3.		······································
Closed-loop System: Subsection H of 19.1	5.17.11 NMAC	
intent)	well D Workover or Drilling (Applies to activities wh	ich require prior approval of a permit or notice of
_	Haul-off Bins Other	
	mil 🔲 LLDPE 🗌 HDPE 🗌 PVC 🗌	Other
Liner Seams: Welded Factory Other	·	
4.	·····	
Below-grade tank: Subsection I of 19.15.1		
Volume: 120 bbl Type of Tank Construction material: Steel	fluid: Produced Water	
	□ Visible sidewalls, liner, 6-inch lift and automatic or	
Visible sidewalls and liner Visible side	walls only X Other <u>Visible sidewalls, vaulted, autor</u>	matic high-level shut off, no liner
Liner type: Thicknessm	il 🗌 HDPE 🗌 PVC 🗌 Other	
5.	•	
Alternative Method:		
Submittal of an exception request is required. E	xceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing

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

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12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropri- office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryin above-grade tanks associated with a closed-loop system.	riate district proval.
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 ⁻ ☐ NA
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ⊠ NA
 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yès 🛛 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

11.			
<u>Temporary Pit</u> Instructions: E	s, Emergency Pits, and Below-grade Tan Each of the following items must be attached	ks Permit Application . ed to the application. Pl	Attachment Checklist: Subsection B of 19.15.17.9 NMAC lease indicate, by a check mark in the box, that the documents are
Hydrogeo Siting Cri Design Pl	logic Data (Temporary and Emergency Pits teria Compliance Demonstrations - based u an - based upon the appropriate requiremen and Maintenance Plan - based upon the ap lan (Please complete Boxes 14 through 18,	 based upon the require pon the appropriate require ts of 19.15.17.11 NMAC propriate requirements o 	
	Approved Design (attach copy of design)	API Number:	or Permit Number:
12.			
Closed-loop Sy Instructions: E	stems Permit Application Attachment Cl Each of the following items must be attached		of 19.15.17.9 NMAC lease indicate, by a check mark in the box, that the documents are
Siting Cr Design P	iteria Compliance Demonstrations (only for lan - based upon the appropriate requirement g and Maintenance Plan - based upon the ap Plan (Please complete Boxes 14 through 18,	on-site closure) - based tts of 19.15.17.11 NMA propriate requirements of	
Previously	Approved Design (attach copy of design)	API Number:	
			(Applies only to closed-loop system that use
above ground st	teel tanks or haul-off bins and propose to in	plement waste removal	for closure)
Instructions: E attached. Hydroged Siting Cr Climatold Certified Dike Prot Leak Det Liner Spe Quality C Operating Freeboard Nuisance Emergen Oil Field Monitorin Erosion C	s Permit Application Checklist: Subsect: Fach of the following items must be attached blogic Report - based upon the requirement iteria Compliance Demonstrations - based upon gical Factors Assessment Engineering Design Plans - based upon the tection and Structural Integrity Design - base ection Design - based upon the appropriate ectifications and Compatibility Assessment - Control/Quality Assurance Construction and g and Maintenance Plan - based upon the ap d and Overtopping Prevention Plan - based or Hazardous Odors, including H ₂ S, Preve cy Response Plan Waste Stream Characterization ng and Inspection Plan Control Plan Plan - based upon the appropriate requirement	ed to the application. Pl s of Paragraph (1) of Sub appropriate requirement ed upon the appropriate requirements requirements of 19.15.17 based upon the appropriate Installation Plan opropriate requirements of upon the appropriate requirements of upon the appropriate requirements of upon the appropriate requirements of upon the approprise requirements of upon the appropriate req	Pease indicate, by a check mark in the box, that the documents are osection B of 19.15.17.9 NMAC airements of 19.15.17.10 NMAC ts of 19.15.17.11 NMAC requirements of 19.15.17.11 NMAC 7.11 NMAC iate requirements of 19.15.17.11 NMAC of 19.15.17.12 NMAC puirements of 19.15.17.11 NMAC
Instructions: F Type: Drilli Alter	native re Method: Waste Excavation and Ren Waste Removal (Closed-le On-site Closure Method (C In-place Burial	tation P&A Pern noval pop systems only) Only for temporary pits an On-site Trench Bu	manent Pit 🛛 Below-grade Tank 🗌 Closed-loop System nd closed-loop systems)
closure plan. P Protocols Confirma Disposal Soil Back Re-vegeta	Please indicate, by a check mark in the box and Procedures - based upon the appropria- tion Sampling Plan (if applicable) - based upon Facility Name and Permit Number (for lique still and Cover Design Specifications - based ation Plan - based upon the appropriate requ	, that the documents are te requirements of 19.15 upon the appropriate required, drilling fluids and d d upon the appropriate r uirements of Subsection	5.17.13 NMAC airements of Subsection F of 19.15.17.13 NMAC rill cuttings) equirements of Subsection H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC
Site Recl	amation Plan - based upon the appropriate	equirements of Subsecti	

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16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required		
facilities are required. Disposal Facility Name:	Disposal Facility Permit Number:	
	Disposal Facility Permit Number:	
Disposal Facility Name: Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No		vice and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMA(n I of 19.15.17.13 NMAC	2
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may requi considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate dist al Bureau office for consideration of approval. Justi	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; Da	ta obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Da	ta 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; Da	ta obtained from nearby wells	□ Yes □ No □ NA
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	gnificant watercourse or lakebed, sinkhole, or playa	🗋 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or churc Visual inspection (certification) of the proposed site; Aerial photo; Satellin 		🗌 Yes 🗌 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that lewatering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	🗋 Yes 🗌 No
 Within incorporated municipal boundaries or within a defined municipal fresh was adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approximation and the section of the municipality of the section of the municipality of the section of the municipality of the section of th	-	🗋 Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visu	ual 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-Minin 	g and Mineral Division	🗋 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map 	gy & Mineral Resources; USGS; NM Geological	🗋 Yes 🗌 No
Within a 100-year floodplain. - FEMA map		🗋 Yes 🗌 No
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Proof of Surface Owner Notice - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate of a drying Protocols and Procedures - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and 	quirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19. 15.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC f Subsection F of 19.15.17.13 NMAC	15.17.11 NMAC

Disposal racing reality reality reality in 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

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19.		
Operator Application Certification:		
I hereby certify that the information submitted with this application i	s true, accurate and complete to t	he best of my knowledge and belief.
Name (Print): <u>Kim Champlin</u>	Title:	Environmental Representative
1. Ale 1.		11/25/09
		11/25/08
e-mail address: <u>kim_champlin@xtoenergy.com</u>	Telephone:	(505) 333-3100
20. OCD Approval: Dermit Application (including closure plan)	Closure Plan (only) OCI	Conditions (see attachment)
OCD Representative Signature:		
		Approval Date:
Title: Serior Hydrologist	OCD Permit Num	ıber:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Instructions: Operators are required to obtain an approved closure The closure report is required to be submitted to the division within section of the form until an approved closure plan has been obtained	plan prior to implementing any 60 days of the completion of the ed and the closure activities have	closure activities and submitting the closure rep closure activities. Please do not complete this
22.		
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.		
<u>Closure Report Regarding Waste Removal Closure For Closed-lo Instructions: Please indentify the facility or facilities for where the</u> two facilities were utilized.		
Disposal Facility Name:	Disposal Facility F	Permit Number:
Disposal Facility Name:	Disposal Facility F	Permit Number:
And a second		
Were the closed-loop system operations and associated activities perf Yes (If yes, please demonstrate compliance to the items below	formed on or in areas that <i>will not</i>) D No	t be used for future service and operations?
Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service) 🗌 No	t be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation)) 🗌 No	t be used for future service and operations?
Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service) 🗌 No	t be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique) 🗌 No and operations:	,
 Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique) 🗌 No and operations:	,
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Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Z4. Closure Report Attachment Checklist: Instructions: Each of the 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-stellation Re-vegetation Application Rates and Seeding Technique Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Z5. Operator Closure Certification: I hereby certify that the information and attachments submitted with the submitted	 No and operations: following items must be attache site closure) Longitude	d to the closure report. Please indicate, by a cheNAD: 1927 1983
Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the 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-stellation Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable closure	 No and operations: following items must be attache site closure) Longitude	d to the closure report. Please indicate, by a chee NAD: 1927 1983 e and complete to the best of my knowledge and specified in the approved closure plan.
Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the 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-stellation Re-vegetation Application Rates and Seeding Technique Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable close Name (Print):	No and operations: following items must be attache site closure) Longitude	d to the closure report. Please indicate, by a chee NAD: [1927] 1983 e and complete to the best of my knowledge and specified in the approved closure plan.
Yes (If yes, please demonstrate compliance to the items below Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the 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-stellation Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Soil Backfilling and Cover Installation Re-vegetation (Photo Documentation) On-site Closure Location: Latitude 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable closure	NO and operations: following items must be attache site closure) Longitude this closure report is true, accurate sure requirements and conditions Title: Date:	d to the closure report. Please indicate, by a chee NAD:1927 1983

DISTRICT I 1625 N. French Dr., Hobba, N DISTRICT II 1301 W. Grend: Ava., Artesta DISTRICT III 1000' Rio Brosse Rd.; Artest	N.M. (83210 N.M. (87410	•••	OIL CC	NSERV	ATI(St.	esources Departme ON DIVISION Francis Dr.	•	Şübr	nit to App Si	roprial late Lé Fee Le	Form C-102 d June 10: 2003 te District Office asso - 4 Coples asso - 3 Coples
1220 South St. Francia Dr., S	••••••			tour		-) ame	NDED REPORT
1 API Number	WĻ		Pool Code	N AND	<u>AC</u>	REAGE DED					
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*Proparty Codo		•			ortý N				. [• (Noll Number
OGRID' No.		Hen/		UTE I	NDIAN ator N						41
				XTO EN	•						*Elevation 5968 ¹
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SEC. CORNER FD 3 1/4" AC 1985 B.L.M. 1745' 3 (2 0 + + 1 00 0 + 1 0 1 00 0 + 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0		B.LM.	LAT: 30 LONG: 34	CALC COF 165' EAST WITNESS 6'56'56' 1 108' 17'59	N. OF		ь 	gnatur gnatur Inted Ua Sitto Sittor	e Name SURVEYO Ithy that the see from field notes	R CE Interest of A CE	RTIFICATION chown on this plet sameys mode by the same is true
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	_	D:+ *	Client:	XTO Energy
Lodestar Servic	es, Inc.	Pit Permit	Project:	Pit Permits
P0 Box 4465, Duran	•	Siting Criteria	Revised:	11/20/2008
		Information Sheet	Prepared by:	Daniel Newman
API#:		3004533280	USPLSS:	T32N,R14W,34A
Name:	U	TE INDIAN A#41	Lat/Long:	36.9488889 / -108.2988889
Depth to groundwater:		>100'	Geologic formation:	Menefee Formation
Distance to closest continuously flowing	6.18 mie	es west of the La Plata River		L
watercourse: Distance to closest significant watercourse,	123	NE to Barker Arroyo		
lakebed, playa lake, or sinkhole:		42' NW to Blue Lake		
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
	· .		Annual Precipitation:	8.21" Farmington FAA Airport
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	3.82" largest daily rainfall on record
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	
Within defined municipal fresh water well field		No		Topo map, ground water data map, ariel photo, mines and quarries map,
Wetland within 500'		No	Mining Activity:	No
Within unstable area	···.	No		
Within 100 year flood plain	No F	EMA data availble		ł .
Additional Notes:				٤

Ute Indians A#41 Below Grade Tank Siting Criteria and Closure Plan

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The proposed below ground tank location will be located in the northwest corner of the San Juan Basin, where the Hogback monocline ends. Thicker sequences common throughout the central basin begin to pinch out and older units of Cretaceous Age are exposed, specifically components of the Late Cretaceous Mesaverde Group (Point Lookout Sandstone, Menefee Formation and Cliff House Sandstone; (Brister and Hoffman, 2002). The resistant Point Lookout and Cliff House soundstones form prominent cliff bands, while shales and smaller sandstones of the Menefee Formation are exposed at lower, more eroded elevations. The stratigraphic section reflects deposition in a transgressive marine to coastal plain environment and consists of gray, brownish and tank sandstone interbedded with dark, carbonaceous shales and coal beds. Also, deposits of Quaternary alluvial and aeolian sands occur prominently near the surface, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). Within the Menefee Formation, thinner confining units that consist of shale, as well as coal and thick sandstone beds, are present. In general, the water from Cretaceous aquifers is minimal (less than 5 gpm), although moderate quantities (5 - 25 gpm) may be supplied from aquifers within the Menefee Formation (Stone et al., 1983). Aquifer depths range from very shallow depths to over 6000 feet below ground surface. Groundwater within these aquifers flows toward the nearby La Plata River, which is a tributary of the San Juan River.

The prominent soil type at the proposed site is rockland, which are basically little to no soils that do not show any profile development. Soils that are present are unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area and prohibits effective recharge to the underlying aquifers.

Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

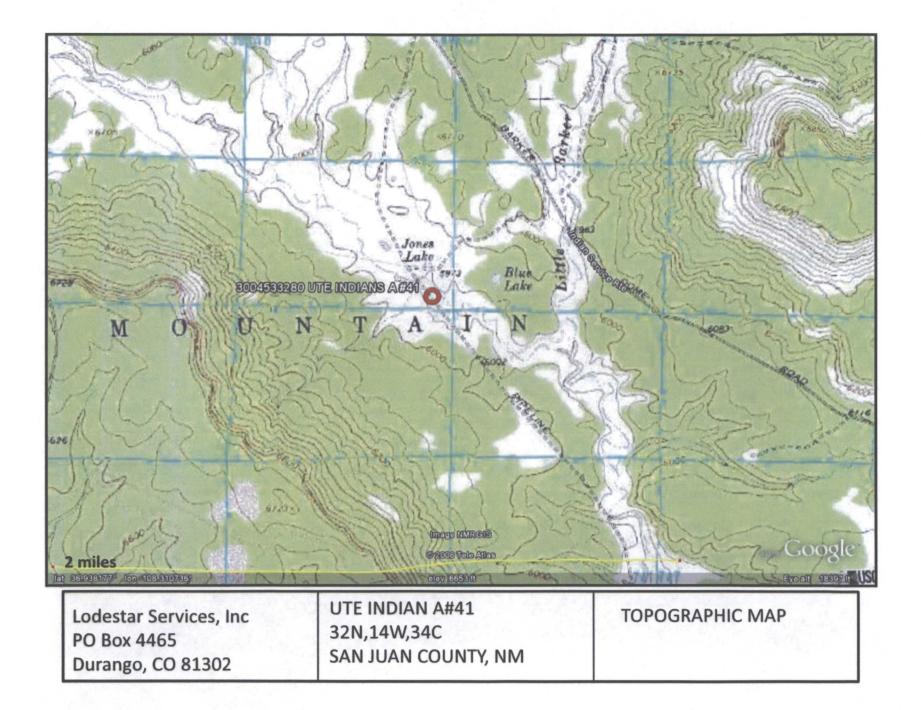
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

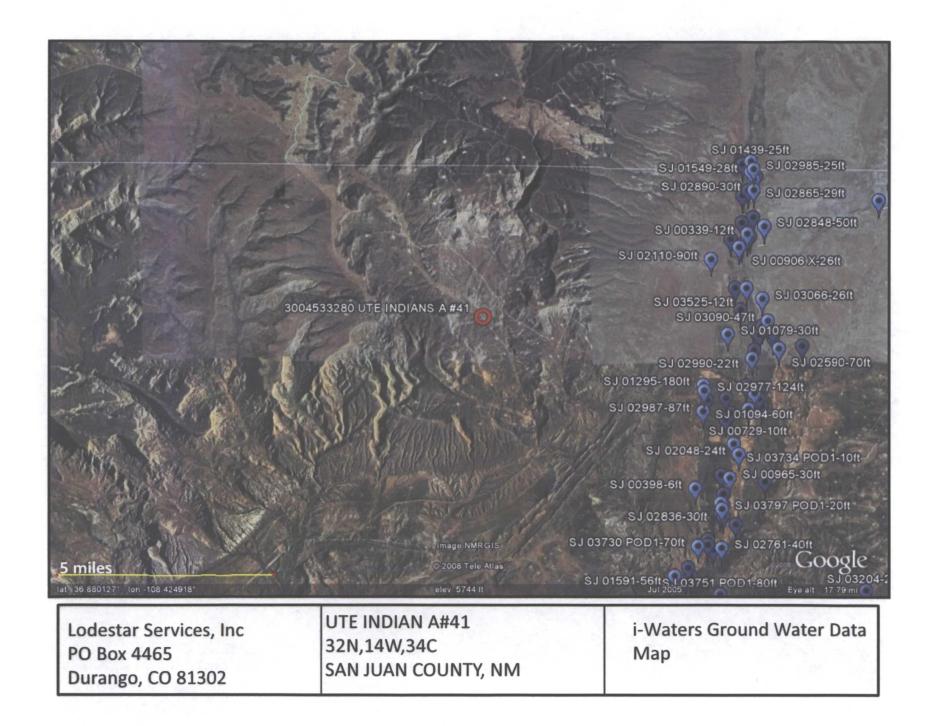
Site Specific Hydrogeology

Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others, 1983 and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Local aquifers include sandstones within the Menefee Formation, which range from shallow depths to over 6000 feet deep in this area (Stone et al., 1983). The site in question is located near the floor of Barker Arroyo. The lower part of Barker Arroyo, where groundwater may be shallow, is over 145' lower in elevation.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is attached. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered near populated areas along the La Plata River east of the proposed site. These sites contain shallow groundwater, but topographic and hydrographic conditions are not representative of the site in question. Many data points exist east of the site and indicate groundwater at 10-180 feet in depth. These groundwater wells are located approximately 5.7 miles to the east and are approximately 170 feet lower in elevation than the proposed site, suggesting groundwater is greater than 100 feet deep at the proposed location.





New Mexico Office of the State Engineer POD Reports and Downloads WATER COLUMN REPORT 09/16/2008

							3=SW 4=SE							_
							smallest	•		Depth	Depth	Water	(in	feet)
POD Number	Tws					-	Zone	x	Y	Well	Water	Column		
SJ 01187 CLW226675		13W		-	4	4				24	9	15		
SJ 01187	32N	13W			4	4				24	9	15		
SJ 01353	32N	13W		4	3						38		•	
SJ 01439	32%	13W		4	3					45	25	20		
<u>SJ 02068</u>	32N	13W		2						45	16	29		
SJ 01549	32N	13W			1					47	28	19		
SJ 02985	32%	13W			1	2				47	25	22		
SJ 02865	32N	13W		2	3	2				44	29	15		
SJ 02558	32N	13W	15	3	2	4				41	23	18		
SJ 02934	32N	13W	15	4	1	1				34	18	16		
SJ 02890	32N	13W	15	4	1	2				35	30	25		
SJ 02705	32N	137	22	1	4	2				25	12	13		
SJ 02704	32N	13W	22	1	4	2				25	12	13		
SJ 03111	32₩	13W	22	2	1	4				19	6	13		
SJ 02848	328	13W	22	2	4	3				608	50	558		
SJ 00922	32N	13W	22	3	1	4				27	12	15		
SJ 00906 X	32N	13W	22	3	4					86	26	60		
SJ 02918	32N	13W	22	3	4	2				51	30	21		
SJ 00736	328	13W	22	4	1					46	15	23		
SJ 00339	32N	13W	22	4	1	1				50	12	38		
SJ 00340	32N	137		4	1	3				50	12	38		
SJ 02847	32N	130		4	4	1				1255		1255		
SJ 03524	32N	137		3	4	1				33	10	23		
SJ 03525	32N	137		4	3	1				71	12	59		
SJ 03256	32%	130		i	4	2				21	6	15		
SJ 03066	32N	13W		2	2	2				41	28	13		
SJ 01079	328	13W		3		-				100	30	70		
SJ 01943	32N	13W		4						100	3	5		
SJ 03635	32N	130		4	2	4				44	35	9		
SJ 02577	32N	130		4	4					30	15	15		
SJ 03090	32N	130		3	-	1				39	47	12		
SJ 02589	32N	130		3	3	2				60	35	25		
SJ 02783	32N	137		3						€0	35 48	14 14		
55 32105	- 943Y	2 U M	00	-	÷	- 2				U 4		4 4		

New Mexico Office of the State Engineer POD Reports and Downloads

AVERAGE DEPTH OF WATER REPORT 10/20/2008

								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
SJ	32N	12W	18				2	5	20	13
SJ	32N	12W	23				1	60	€0	€0
SJ	32N	120	2.8	N	391500	2170000	1	90	90	90
SJ	32N	120	35				1	115	115	115

New Mexico Office of the State Engineer POD Reports and Downloads

AVERAGE DEPTH OF WATER REPORT 10/20/2008

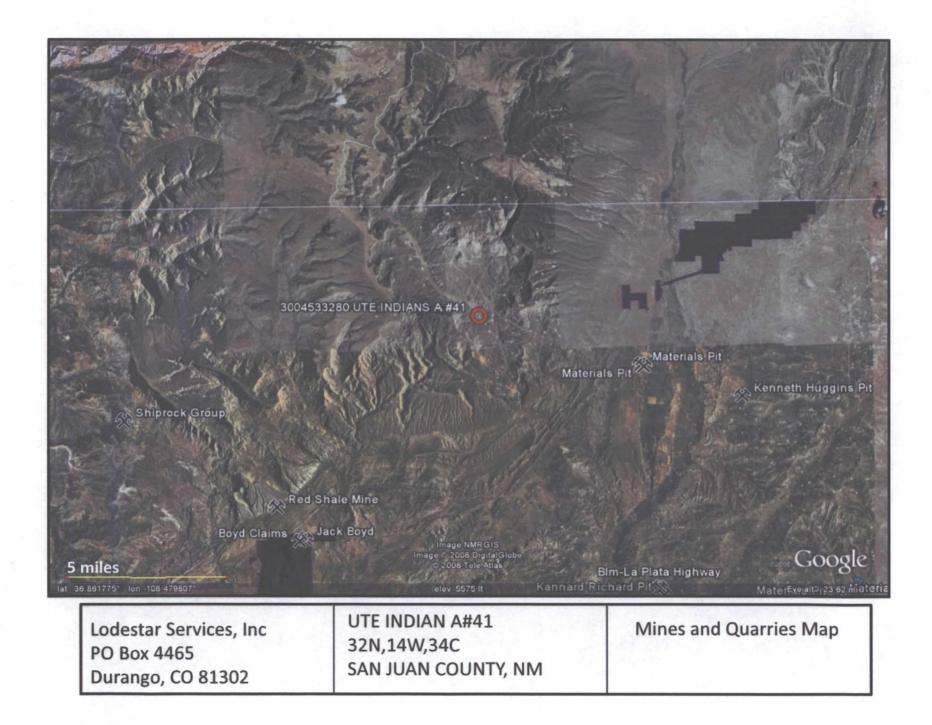
Ban	Tws	Rng	Sec	Zone	x	Y	Wells	(Depth Min	Water in Max	Feet) Avq	
SJ	31N	13W					2	19	70	45	
SJ	31N	13W	03				2	11	22	17	
SJ	31N	137	09				4	40	180	108	
SJ	31N	139	10				11	4	65	22	•
SJ	31N	130	15				2	10	24	17	
SJ	31N	13W	21				· <u>1</u>	£	£	e	
SJ	31N	13W	22				E	5	40	24	
SJ	31N	130	23				<u>1</u>	14	14	14	
SJ	31N	13W	27				5	20	70	38	
SJ	31N	13W	28				5	2	70	21	
SJ	31N	13W	33				4	€	56	24	

New Mexico Office of the State Engineer POD Reports and Downloads

AVERAGE DEPTH OF WATER REPORT 10/20/2008

Bsn	Tws	Rng	Sec	Zone	x	Y Wells	(Depth Min	Water in Max	Feet) Avg
SJ	31N	127	01			7	20	275	122
SJ	31N	12W	08			1	142	142	142
SJ	31N	129	24			1	85	85	85
SJ	31N	12W	25			5	90	505	181
SJ	31N	127	31			1	20	20	20
SJ	31N	12W	35			2	210	250	230





XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction 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 design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

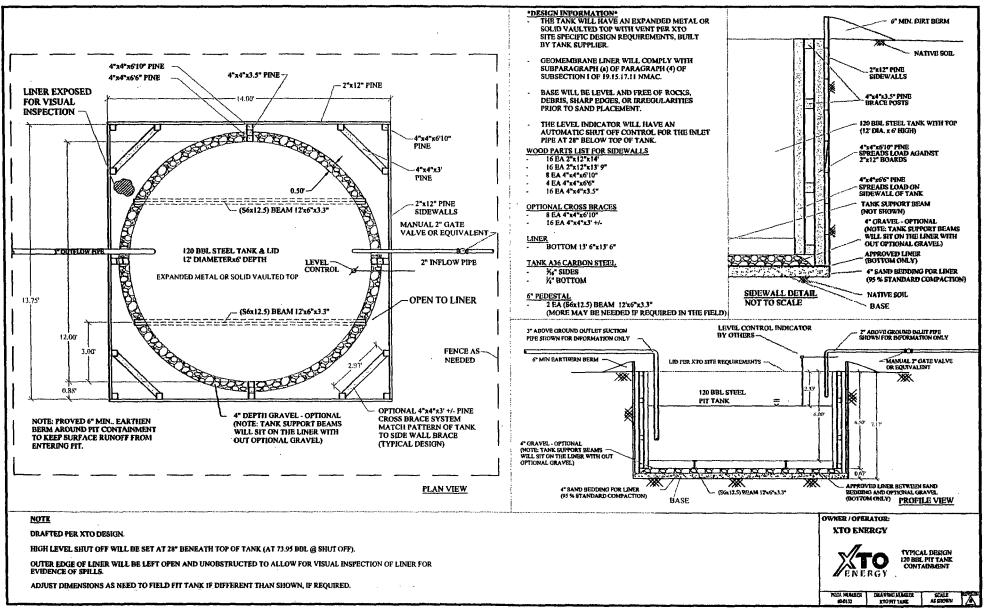
XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

> bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).

10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).

11. The general specifications for design and construction are attached.



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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance 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 operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- 2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
- 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

Well Name API # Sec., Twn., Rng. XTO Inspector's name Inspection date and time Visible tears in liner Visible signs of tank overflow Collection of surface run on Visible layer of oil Visible signs of tank leak Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- 6. XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

XTO Energy Inc.

San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks Page 2

notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan.

Well N	ame:				API No.:	······		
Legals	Sec:] Township:	······	Range:		•	
XTO Inspector's		Inspection		Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeb
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)		of a tank leak (Y/N)	Est.
				·		······································		
		· · · · · · · · · · · · · · · · · · ·						
		<u> </u>		· · · · · · · · · · · · · · · · · · ·		 		

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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

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.
- 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.
- 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.
- 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

- 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 has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks Page 2

analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

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.

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.

 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

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

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.

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. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.

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 divisionapproved 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.

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks Page 3

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;
- ii. Details on capping and covering, where applicable;
- iii. Inspection reports;
- iv. Confirmation sampling analytical results;
- v. Disposal facility name(s) and permit number(s);
- vi. Soil backfilling and cover installation;
- vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
- viii. Photo documentation of the site reclamation.