Jones, Brad A., EMNRD

From:

Kurt_Hoekstra@xtoenergy.com

Sent:

Friday, September 07, 2012 3:26 PM

To:

Jones, Brad A., EMNRD

Subject:

Request for closure plan Ropco Fee FC 6 # 1 T

Brad Jones.

Please accept this email as a request for approval of the closure plan only for the BGT at the Ropco Fee FC 6 # 1 T location (API # 30-039-33251) located in Unit F, Section 6, Township 29N, Range 12W, Lat. N 36.75728 Long W108.142 San Juan County, New Mexico. Our records show that this closure plan was submitted to your office on 12/5/2008. This tank will no longer be used due to the plugging and abandoning of this location.

Thank you for your time in regards to this matter.

Kurt Hoekstra Sr. Environmental Technician XTO Energy 505-333-3202 Office 505-486-9543 Cell Kurt Hoekstra@xtoenergy.com District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. D Santa Fe, NM 87505 2008 DEC 8 PM 4 41 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.

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

Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method	
Existing BGT	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method	
	Modification to an existing permit	
,	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop sys	stem,
below-grade tank	, or proposed alternative method	

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance

environment. Nor does approval reneve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations of ordinances.
1. Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Ropco Fee FC 6#1T
API Number: 3004533251 OCD Permit Number:
U/L or Qtr/Qtr F Section 06 Township 29N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.75728 Longitude 108.1424 NAD: ☐1927 ☐ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
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 Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams: Welded Factory Other
4.
<u>A.</u> <u>Below-grade tank</u> : Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thickness mil HDPE PVC Other
S. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Expanded metal or solid vaulted top Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" 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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 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 drying above-grade tanks associated with a closed-loop system.	priate district pproval.
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
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (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	⊠ Yes □ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🖾 No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes 🖾 No
Within a 100-year floodplain FEMA map	☐ Yes ⊠ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control 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 G of 19.15.17.13 NMAC

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.		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	-	
Required for impacted areas which will not be used for future service and operatio 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	e requirements of Subsection H of 19.15.17.13 NMA I of 19.15.17.13 NMAC	C
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 requir 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	e administrative approval from the appropriate dist I 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; Database search;	a 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; Dat	a 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; Database search;	a obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or s - NM Office of the State Engineer - iWATERS database; Visual inspection (pring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approv	•	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visus	al 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	g and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map 	y & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 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 Confirmation Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	uirements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 5.17.13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Kim Champlin Title: Environmental Representative
Signature: Nim Champler Date:11/24/08
e-mail address: kim_champlin@xtoenergy.com Telephone: (505) 333-3100
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 9/10/17
Title: OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
22.
Closure Method: □ Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-loop systems only) □ If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD: \[\] 1927 \[\] 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address:Telephone:

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

_	· · · · · · · · · · · · · · · · · · ·			WELL			CREAGE (DEDICATION			
١	30.00	PA Num		-, _	Pool Cod	1	D 4 CIM E1	N. 1971. A A 15		Name	
ŀ	Property (Code	765		1629	Property No		RUITLANE) CO	AL	Well Number
ı	3013	75			ROF	CO FEE					14T
t	OCRED N	a.				Operator N					Bevation
	233194			•	TEX	AKOMA OIL	& GAS				5390
_							e Location				
	ULerLot	Sec.	Twp	Rge.	Lot lds.		North/South		East/	West	County
l	F	6	29 N.	12 W.	1870'	NORTH	1880	WEST	<u> </u>		SAN JUAN
ſ	UL or Lot	Sec. I	Тер.	Rge.	Lot ldn.	Hole Locatio	North/South	Feet Iron>	East/	Wort	County
,	32 3. 23 .	'''	7	3	201 722	1.44.11.		33	Com		,
1	Dedication	 	int?	Consolida	tion		<u> </u>	0rd	er Na.		
۱	317.94			С							•
•		N	O ALLOWAE					NTERESTS I		EEN CONS	CETACUC
	_	2	632.29		n-standar 1 89 54' 1		EEN APPROVE	D BY THE DM	NOK		
•				1	10954	"	2640		[8]		
				1			20 10	,		OPERA	TOR CERTIFICATION
	,		1		- 1	4:057.76	77.700			contained	certify that the information herein is true and complete
			l.		 	ASTRICT.			11	to the be belief.	est of my knowledge and
ш			J	1870		ું પ્રા	200m 36	41	υ .	Signature	D4 1
	55				[F. F. S. S.	200 5		2347	again e	Str Mel
0.38	764		-		- (1.55 1.65		S. Div A		اریا	Printed N	come
Z		1000	1		W. J. J.		ં લું	1			BRIAN WOOD
	•	1880.		 ∳ ·		Willia.	0185			Title	CONSULTANT
				66		<u></u> 0				Date	JULY 13, 2005
_		1		e. L	4		·		8		EYOR CERTIFICATION
•			*		. [I hereby	certify that the well location lat was plotted from field
				7	ر أ د					notes of	actual surveys made by me my supervision, and that the
					,					ti emor	true and correct to the best
	•							u :-		of my be Date of	olief. Survey
								0.03		rev:	107
								z	2594	Signature	Sed Suppor
										Professo K	Sentation Co.
											(6844)
								_			O THE STATE OF THE
					1		0607			1	e mily a
			2579	N 86 35	E from	BLM	2607		_1		EREO LAND SUR
										1	

Lodestar Services, Inc. 70 Box 4465, Durango, CO 81302

Pit Permit Siting Criteria Information Sheet

Client:	XTO Energy	
Project:	Pit Permits	
Revised:	17-Nov-08	
Prepared by:	Brooke Herb	

		Information Sheet	Prepared by:	Brooke Herb			
API#:		3004533251	USPLSS:	T29N,R12W,S06F			
Name:	RO	PCO FEE FC 6 #1T	Lat/Long:	36.75728, -108.1424			
Depth to groundwater:	Depth to groundwater: < 50'		Geologic formation:	Nacimiento Formation			
Distance to closest continuously flowing watercourse:	681' N	I of the Animas River					
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	857'	S of Irrigation Ditch					
			Soil Type:	Entisols			
Permanent residence, school, hospital, institution or church within 300'		No		·			
			Annual Precipitation:	8.21 inches (Farmington)			
Domestic fresh water well or spring within 500'	Yes - 39	90' SE of iWaters well SJ03529	Precipitation Notes:	no significant precip events			
Any other fresh water well or spring within 1000'	Yes - 88	38' NE of iWaters well SJ01385					
Within incorporated municipal boundaries Within defined	No - 675	' from Farmington City Limits	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map			
within defined municipal fresh water well field		No		Aerial Photo, Topo Map, Mines Mills and Quarries Map			
Wetland within 500'		No	Mining Activity:	1.19 miles NW of a Materials Pit			
Within unstable area		No		1.19 miles NW of a Materials Pit			
Within 100 year flood plain	No - I	FEMA Flood Zone 'X'					
Additional Notes:							
				ļ			

ROPCO FEE FC 6 #1T Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T29N, R12W, Section 06, Quarter Section F Latitude/Longitude: approximately 36.75728, -108.1424

County: San Juan County, NM

General Description: near Farmington, New Mexico

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 just north of the Animas River near Farmington, New Mexico. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the nearby San Juan River and its tributaries.

The prominent soil type at the proposed site is entisols, which are defined as soils that do not show any profile development. Soils are basically 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 soils that cover the area.

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).

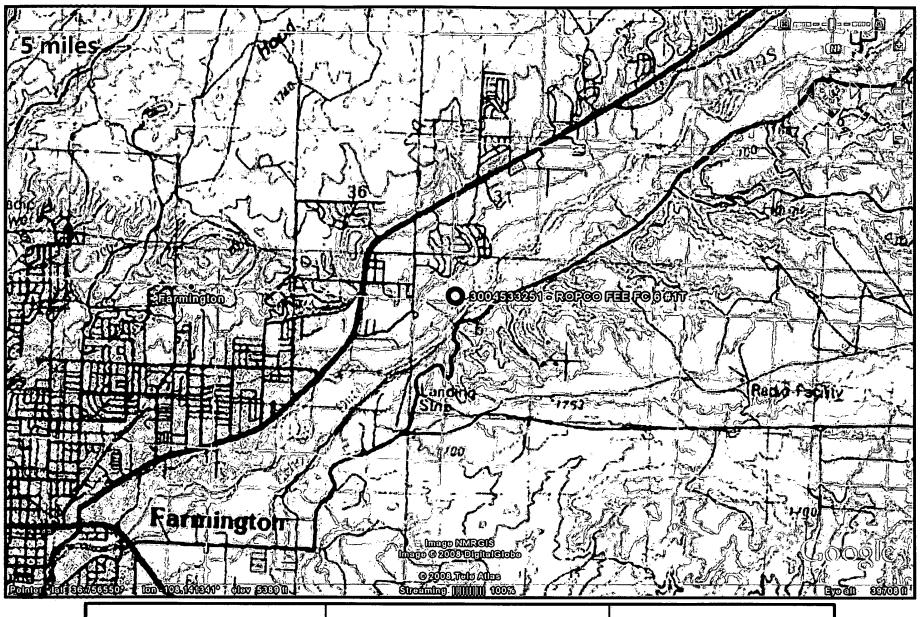
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

Depth to groundwater is estimated to be less than 50 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.

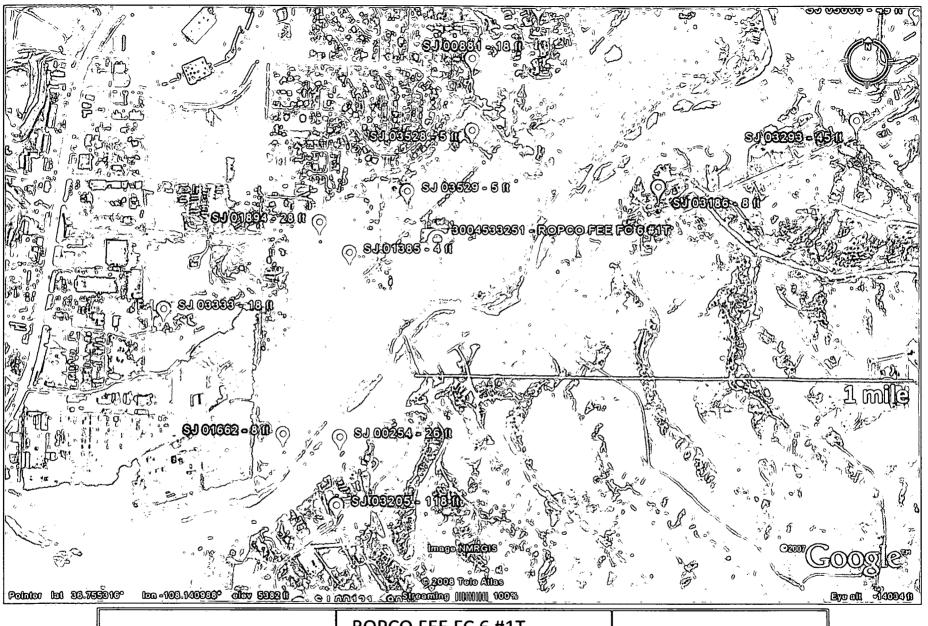
Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 681 feet to the north of the Animas River, and is approximately 8 feet higher in elevation (Google Earth).

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 also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered around the proposed site. Depth to groundwater within the surrounding wells ranges from 4 to 28 feet below ground surface. Topographic elevation at the proposed site is approximately 5390 feet (Google Earth). The closest well to the proposed site is 390 feet to the northwest at an elevation of approximately 5396 feet. Depth to groundwater within the well is 5 feet below ground surface. The shallow groundwater data nearby, as well as the close proximity to the Animas River suggest that groundwater at the proposed site is less than 50 feet below ground surface.



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 ROPCO FEE FC 6 #1T T29N, R12W, S06F San Juan County, NM

Topographic Map



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 ROPCO FEE FC 6 #1T T29N, R12W, S06F San Juan County, NM

iWaters Groundwater Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

Т	290	12V	C	2,3,4,5,6,7,8,9,10
Township:	Range:		Sections:	2,5,4,5,0,1,5,8,10

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 10/16/2008

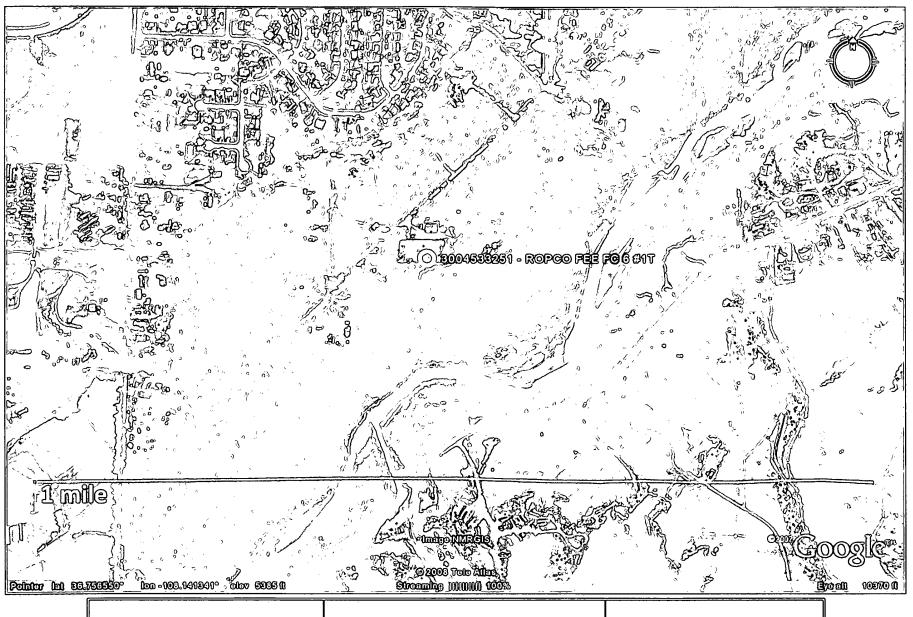
(qu	arter	s are	e 1=1	NW	2=N]	E 3=SW 4=SE)							
(qu	arter	s are	e bi	gge	st 1	to smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q ·	q q	Zone	X	Y	Well	Water	Column		
RG 36980	29N	12W	02	1					113	40	73		
RG 27250	29N	12W	02	1					85	40	45		
SJ 01504	29N	12W	04	2	1				130	155	25		
SJ 01031	2 9 N	12₩	04	2	1				275	172	103		
SJ 02851	2 9N	12W	04	2	1 1				370	310	60		
SJ 03293	29N	12W	05	1	1 4				€3	45	23		
SJ 00881	29N	12W	96	1	2 2				137	18	119		
SJ 03528	29N	12W	06	1	2 4				21	5	16		
SJ 01894	29N	12W	06	1	3				29	28	1		
SJ 01385	2 9N	12W	06	1	3 4				31	4	27		
SJ 03529	29N	12W	06	1	4 1			•	21	5	16		
SJ 03186	29N	12W	06	2	4 1				21	8	13		
SJ 01662	29N	12W	96	3	3 1				25	8	17		
SJ 00254	29N	12W	06	3	3 2				90	26	64		
SJ 03205	29N	12W	06	3	34				127	118	9		
SJ 01383	29N	12W	07	1					125	80	45		
SJ 00121	29N	12W	07	1	1				160	90	70		
SJ 03553	29N	12W	07	1	2 2				150				
SJ 03061	29N	12W	07	3	1 2				280	180	100		
SJ 01566 CLW227534	29N	12W	98	3	1 2				105	60	45		
SJ 01566	29N	12W	96	3	1 3				105	60	45		
SJ 01839	29N	12W	10	1	4				212	175	37		

	SJ 02412	29N 13W 02 4 2	48	28	20	•	
	SJ 02751	29N 13W 02 4 2 4	58	17	41		
	SJ 02750	29N 13W 02 4 2 4	59	18	41		
	SJ 02281	29N 13W 02 4 3 4	59	30	29		
	SJ 02328	29N 13W 04 3 3	40	10	30		
	SJ 02730	29N 13W 04 3 3 3	40	īε	24		
	SJ 02912	29N 13W 04 3 3 3	50				
	SJ 02899	29N 13W 04 3 3 3	45				
	SJ 03203	29N 13W 05 2 4 4	59	20	39		
	SJ 03234	29N 13W 05 4 2 4	60	20	40		
	SJ 02728	29N 13W 05 4 2 4	52	12	40		
	SJ 01444	29N 13W 05 4 4 2	55	10	45		
	SJ 02931	29N 13W 06 4 3 2	50	12	38		
	SJ 02134	29N 13W 08 2 2	33	4	29		
	SJ 03346	29N 13W 08 4 3 4	80	30	50		
	SJ 01333	29N 13W 09 1 1	38	20	18		
	SJ 01487	29N 13W 09 1 1	36 2€	10	16		
	SJ 01038	29N 13W 09 1 1	42	10	32		
	SJ 01556	29N 13W 09 1 1 3	27	10	17		
	SJ 03457	29N 13W 09 1 1 3	29	9	20		•
	SJ 02594	29N 13W 09 1 1 4	44	17	27		
	SJ 02386	29N 13W 09 1 1 4	30	10	20		
	SJ 01779	29N 13W 09 1 4	31	11	20		
	SJ 00512	29N 13W 09 1 4 1	41	15	26		
	SJ 02209	29N 13N 09 1 4 1			20		
	SJ 00957	29N 13N 09 1 4 1 29N 13W 09 4 3	74	20	54	•	
	SJ 00894	29N 13W 09 4 3 1	74 30	20 15	15		
	SJ 00894 SJ 02712	29N 13W 09 4 3 1 29N 13W 09 4 3 3	30 90	15 50	15 40		
	SJ 02712 SJ 02367	29N 13W 09 4 3 4	50 50	30 20	40 30		
	SJ 02052				46		
			€8 3€	22 14	46 22		
	SJ 00775 SJ 01271		36 60	14 30	22 30		
	SJ 01271 SJ 03404		42	30 22	30 20		
	SJ 01317	29N 13W 10 2 4 2	50 =0	23	27 36		
	SJ 00852	29N 13W 10 2 4 2	50 = 0	24	26 20		
	SJ 00314 X	29N 13W 10 2 4 2	58 35	38 15	20		
	SJ 01402	29N 13W 10 3 2	25	15	10		
•	SJ 03311	29N 13W 10 3 2 1	42	20	22		
	SJ 03314	29N 13W 10 3 2 3	32	18	14		
	SJ 02935	29N 13W 10 3 2 4	. 100	10	90		

	SJ 03578	29N	13W 10 3 3	1	240	23	217		
'	SJ 03297	29N	13W 10 3 3	2	29	9	20		
	SJ 00720		13W 10 3 3		29	15	14		
	SJ 03332		13W 10 4 2	3	60				
	SJ 00776		13W 10 4 4		25	10	15		
•	SJ 02417	29N	13W 11 1 3	1	37	20	17		
•	SJ 00955	29N	13W 11 1 4	1	59	30	29		
	SJ 02333	29N	13₩ 11 2 2	1	40	10	30		
	SJ 02136	29N	13W 11 2 2	2	50	20	30		
	SJ 01951		13W 11 2 3		39	39			
	SJ 02001	29N	13W 11 2 3		20	10	10		
'	SJ 00758		13W 11 2 3		35	15	20		
,	SJ 00310	29N	13W 11 2 3	1	45	11	34		
	SJ 00301	29N	13W 11 3			20			
	SJ 02795	29N	13W 11 4 4	1	180				
'	SJ 00716	29N	13W 14 1		30	12	18		
'	SJ 02307	29N	13W 14 1		15	5	10		
	SJ 03097	29N	13W 14 1 1	3	18	6	12		
'	SJ 02709	29N	13W 14 1 3		28	10	18		
	SJ 03625	29N	13W 14 1 4	1	27	€	21		
	SJ 01970	29N	13W 14 1 4	2	32 .	30	2		
	SJ 02024 EXPLOR-18	29N	13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-16	29N	13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-22	29N	13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-10	29N	13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-15	29N	13W 14 2 1	1	14	4	10		
		29N	13W 14 2 1	1	12	4	8		
		29N	131 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-3	29N	13W 14 2 1	1	12	4	ទ		
	SJ 02024 EXPLOR-6	29N	13W 14 2 1	-	12	4	8		
	SJ 02024 EXPLOR-17	29N	13W 14 2 1		12	4	8		
	SJ 02024 EXPLOR-14		13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-25	29N	13W 14 2 1		12	4	- 8		
	SJ 02024 EXPLOR-13	29N	13W 14 2 1	1	12	4	8		
	SJ 02024 EXPLOR-20	29N	13W 14 2 1		12	4	8		
	SJ 02024 EXPLOR-2	29N	13W 14 2 1		12	4	8		
	SJ 02024 EXPLOR-9	29N	13W 14 2 1		12	4	8		
	SJ 02024 EXPLOR-11	29N	13W 14 2 1		12	4	8		
		29N	13W 14 2 1		12	4	8		
	SJ 02024 EXPLOR-5	29N	13W 14 2 1	1	12	4	8		

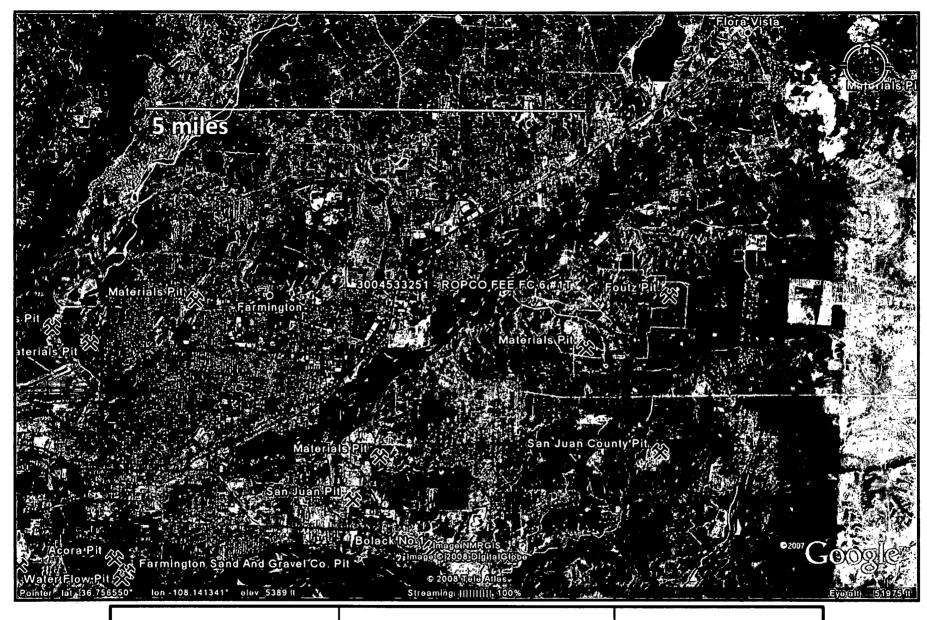
	9N 13	3W 14	2 1 1			12	4	8			
		3W 14	2 1 1			12	4	8			
		3W 14 3W 14	2 1 1 2 1 1			12 12	4	8 8			
		3W 14	2 1 1			12	4	8			
		3W 14	2 1 1			12	4	8			
		3W 14	2 4			35	9	26			
SJ 00176 2:	29N 13	3W 14	3 1 3			35	10	25			
			1 2 1			50				•	
		3W 15	3			29					
		3W 15	3			75	4				
			3 2 2			8	4	4			
		.3W 15 .3W 1€	3 4 2 1 3 2			38 38	25 24	13 14	. •		
		.3W 16	3 4			35 44	35	9			
		3W 16	3 4 4			40	21	19			
		.3₩ 17	231			30	8	22			
		3W 17	4 3 2	•		80	20	60			
SJ 02635 2:	29N 13	3W 18	2 3 1			23	11	12		•	
			1 4 3	261218	2079099	13	5	8			
		3W 21	2 1			31	ε	25			
		3W 21	2 2			39	20	19			
		3W 21	4 2 2			20	7	13			
			111	261.522	200000	100	1.	7 =			
		3W 22 3W 22	1 1 1	261533	2080965	30 49	15 28	15 20			
			1 2 1 2 1			48 40	25 12	20 28			
			1 2 3			39	19	20 20			
	29N 13		1 2 3			3€	12	24			
						33	10	23			
SJ 01765 2°						39	19	20		•	
	29N 13	3W 22	1 4			3€	19	17			
		3W 22	21.			52	27	25			
		3W 22	2 1			43	21	22			
		3W 22	2 2			4 E	35 20	11			
						42	20	22			
		.3W 22 .3W 22	2 4 2 4 1			32 40	14 20	18 20			
		.3W 22				34 -	20 18	20 16			
	JN 1	3W 22	3 1 1			34 · 35	15	20			
20 00000	211 20	JR	J + +				10	20			

•



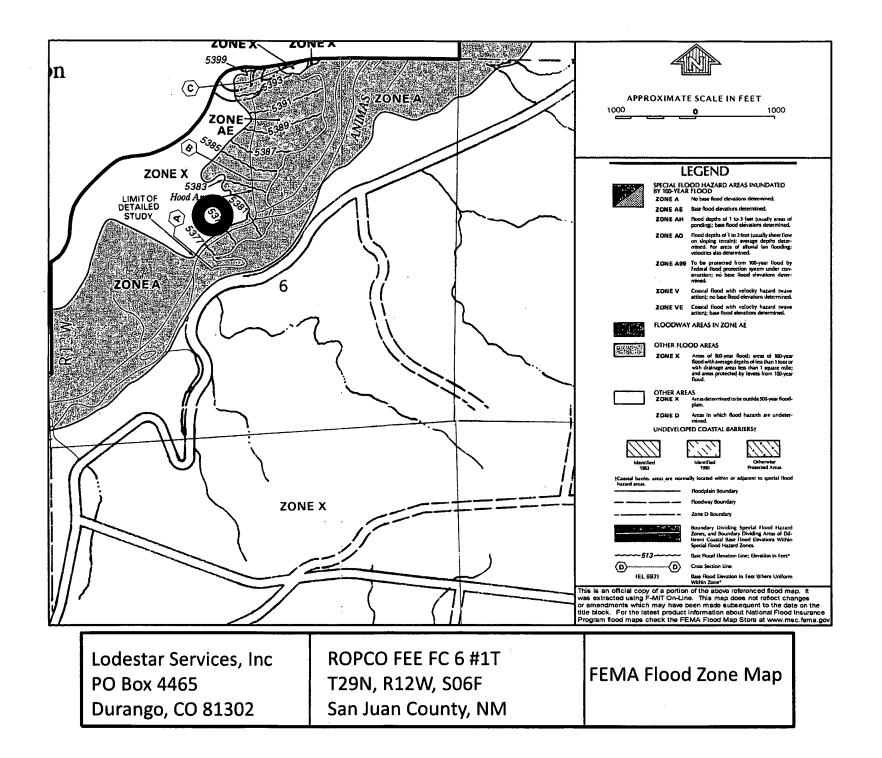
Lodestar Services, Inc PO Box 4465 Durango, CO 81302 ROPCO FEE FC 6 #1T T29N, R12W, S06F San Juan County, NM

Aerial Photograph



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 ROPCO FEE FC 6 #1T T29N, R12W, S06F San Juan County, NM

Mines, Mills, and Quarries Map



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

- 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.
- 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.
- 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.
- 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

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 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.

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.

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.

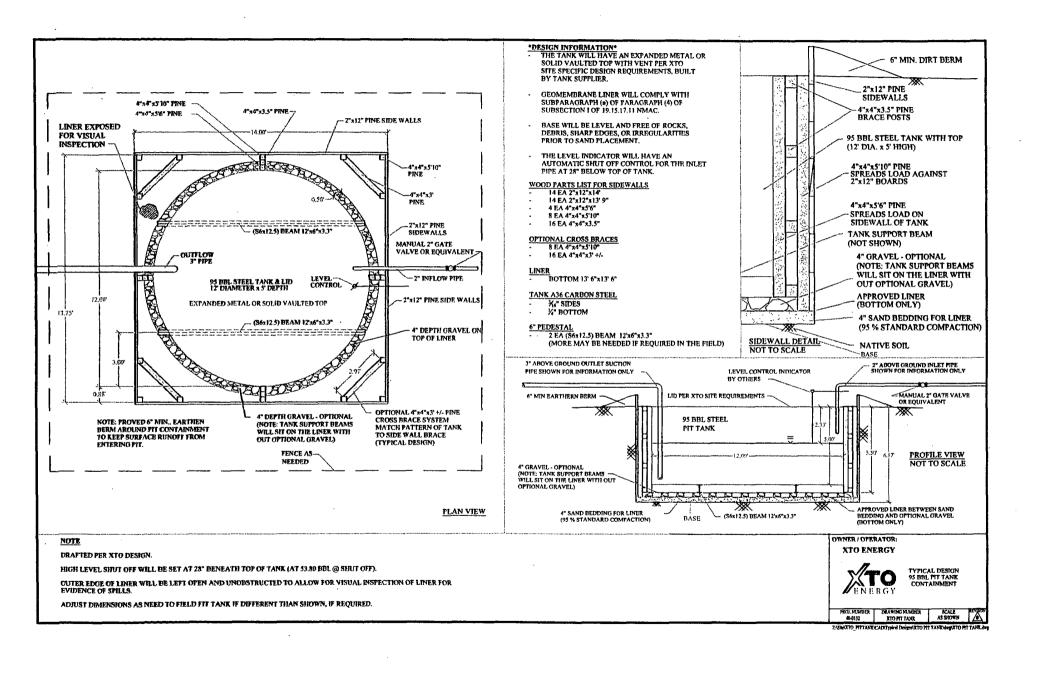
General Plan

- 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 ½ 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 1/4" 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.



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.

MONTHLY BELOW GRADE TANK INSPECTION FORM									
Well Name	:			·	API No.:				
Legals	Sec:		Township:		Range:				
XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer	Any visible signs of a tank leak (Y/N)	Freeboard Est. (ft)	
								201. (1.7	
					<u> </u>				
	 				 				
	 	 	<u> </u>	·	 	 			
		 					-		
		ļ					<u> </u>		
		<u> </u>	<u> </u>			1			
Notes:	Provide De	etailed Descr	iption:						
				·				-	
Misc:									
					_ 	/			