1023 (N. FTCHUR DE., 110005, (NW 00240 Energy Minerals and Natural Resources For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. District II Department 1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 For permanent pits and exceptions submit to 1220 South St. Francis Dr. the Santa Fe Environmental Bureau office and District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 provide a copy to the appropriate NMOCD District Office. Santa Fe, NM 87505 2000 JEN 12 Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method **Existing BGT** Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: XTO Energy, Inc. OGRID #: 5380 Address: #382 County Road 3100, Aztec, NM 87410 Facility or well name: Florance D LS #9 API Number: <u>30-045-06453</u> _____OCD Permit Number: ___ U/L or Qtr/Qtr M Section 17 Township 27N Range 08W County: San Juan Center of Proposed Design: Latitude 36.570070 Longitude 107.709220 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: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ____

rencing: Subsection D of 19.13.17.11 (NIMAC (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)	hospital,
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	
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 approach office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	ppriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No ☐ 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

Instructions: Each of the following items must be attached	to the application. Please indicate, by a c	check mark in the box, that the documents are
attached. ☐ Hydrogeologic Report (Below-grade Tanks) - based upon Hydrogeologic Data (Temporary and Emergency Pits) - ☐ Siting Criteria Compliance Demonstrations - based upon ☐ Design Plan - based upon the appropriate requirements ☐ Operating and Maintenance Plan - based upon the appro ☐ Closure Plan (Please complete Boxes 14 through 18, if and 19.15.17.13 NMAC	based upon the requirements of Paragrap in the appropriate requirements of 19,15,17 of 19,15,17,11 NMAC operate requirements of 19,15,17,12 NMA	h (2) of Subsection B of 19.15.17.9 NMAC 7.10 NMAC
Previously Approved Design (attach copy of design) A	PI Number:	or Permit Number:
Closed-loop Systems Permit Application Attachment Check Instructions: Each of the following items must be attached attached. Geologic and Hydrogeologic Data (only for on-site clo.) Siting Criteria Compliance Demonstrations (only for on.) Design Plan - based upon the appropriate requirements. Operating and Maintenance Plan - based upon the appropriate Closure Plan (Please complete Boxes 14 through 18, if	sure) - based upon the requirements of Parn-site closure) - based upon the appropriate of 19.15.17.11 NMAC repriate requirements of 19.15.17.12 NMA	ragraph (3) of Subsection B of 19.15.17.9 re requirements of 19.15.17.10 NMAC
and 19.15.17.13 NMAC		
 □ Previously Approved Design (attach copy of design) □ Previously Approved Operating and Maintenance Plan 		
above ground steel tanks or haul-off bins and propose to impl		(Applies only to closed-toop system that tise
13.		
Permanent Pits Permit Application Checklist: Subsection Instructions: Each of the following items must be attached attached. Hydrogeologic Report - based upon the requirements of Siting Criteria Compliance Demonstrations - based upon Climatological Factors Assessment Certified Engineering Design Plans - based upon the application and Structural Integrity Design - based Leak Detection Design - based upon the appropriate recommendation Liner Specifications and Compatibility Assessment - based upon the appropriate recommendation of the Department of the American Structural Plan - based upon the appropriate of the Preeboard and Overtopping Prevention Plan - based upon the appropriate of Hazardous Odors, including H2S, Prevention Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements	of Paragraph (1) of Subsection B of 19.15. on the appropriate requirements of 19.15.17.11 NM upon the appropriate requirements of 19.15.17.11 NMAC ased upon the appropriate requirements of nstallation Plan repriate requirements of 19.15.17.12 NMA on the appropriate requirements of 19.15.	17.9 NMAC 7.10 NMAC MAC 15.17.11 NMAC 19.15.17.11 NMAC AC 17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 1	14 through 18, in regards to the proposed	closure plan.
☐ In-place Burial [val p systems only) ly for temporary pits and closed-loop syste On-site Trench Burial	
Alternative Closure Method (Is. Waste Excavation and Removal Closure Plan Checklist: (closure plan. Please indicate, by a check mark in the box, the Protocols and Procedures - based upon the appropriate Confirmation Sampling Plan (if applicable) - based upon Disposal Facility Name and Permit Number (for liquid Soil Backfill and Cover Design Specifications - based Re-vegetation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate required Site Reclamation Plan - based upon the appropriate Site Reclamation Plan - based upon the plan - based upon t	(19.15.17.13 NMAC) Instructions: Each hat the documents are attached. requirements of 19.15.17.13 NMAC on the appropriate requirements of Subsec s, drilling fluids and drill cuttings) upon the appropriate requirements of Subsements of Subsection I of 19.15.17.13 NM	of the following items must be attached to the tion F of 19.15.17.13 NMAC section H of 19.15.17.13 NMAC

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attach facilities are required.	ment if more than two
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name; Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for fit Yes (If yes, please provide the information below) \(\sum \) No	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.1 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	3 NMAC
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptada provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	inte district affice or man ha
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	playa Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stowatering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	ock Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinal adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	ance Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed si	☐ 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 Geologic Society; Topographic map 	cal Yes No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure of the closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure of the closure proof of the compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 or in case on-site closure standard Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	C s of 19.15.17.11 NMAC

I hereby certify that the information submitted with this application is true, as	ccurate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	01/02/2009
e-mail address: kim_champlin@xtoenergy.com	Telephone:	(505) 333-3100
20.		
OCD Approval: Permit Application (including closure clan) X Closur	re Plan (only) 📙 OCI	
OCD Representative Signature:)	Approval Date: 15 Feb 18
Title: Hydrologist	OCD Permit Nun	nber:na
21. Closure Report (required within 60 days of closure completion): Subsect Instructions: Operators are required to obtain an approved closure plan pri The closure report is required to be submitted to the division within 60 days section of the form until an approved closure plan has been obtained and the	ior to implementing any of the completion of the e closure activities have	closure activities and submitting the closure report. e closure activities. Please do not complete this e been completed.
	☐ Closure Com	ipletion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Altered If different from approved plan, please explain.	ernative Closure Method	d ☐ Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized.	drilling fluids and drill	cuttings were disposed. Use attachment if more than
Disposal Facility Name:		Permit Number:
Disposal Facility Name:		Permit Number:
Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No		t be used for future service and operations?
Required for impacted areas which will not be used for future service and ope Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	rations:	
Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	re)	
On-site Closure Location: Latitude Loc	ngitude	NAD: 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closubelief. I also certify that the closure complies with all applicable closure requi	rements and conditions	e and complete to the best of my knowledge and specified in the approved closure plan.
Signature:		74 F 44F 9 dada
e-mail address:	Telephone:	

JANUARY 31, 1958

Service Ac-FLORANCE 27 N 1090 32 NM 03380 EL PASO NATURAL GAS COMPANY 27 N 8 W SHIM se se 9-D (PM) is elected M se reco 1 160 1090 SOUTH 320 € 160 MESA VERDE & PICTURED CLIFF BLANCO EXT MV - SO BLANCO PC SAN JUAN (2) I the Opera the graph as seen a role dedicated a visit of multiple and a contract of a visit of the property.

It the above to present the protection of a first section of a first section of the end of the e

151. 3

Application data and a second to the second

Transferred to the second of the second . Management to specified two in the many at the con-6 1958 CON. COM.

19 - 11 The 11 TH

place of the All Control of the soft week the sec-El Paso Batural Ges Company

I will be seen to be the information

Original Signed D. C. Johnston

Box 997 Representatives

we then the

Farmington, Her Mexico

Same and the same of the same

SECTION 17

as put a few request from:

District the second of the first and a second contract of the first and a second current

Character of the state of the s

NM 03380

090'

english as the first part of a of the wholest the term

OCTOBER 17, 1957

and the second second second second second

	ſ		Client:	XTO Energy
Lodestar Service	es. Inc.	Pit Permit	Project:	tank permitting
PO Bex 4465, Darrag	,	Siting Criteria	Revised:	29-Nov-08
10001100,0000	a, co araur	Information	Prepared by:	Trevor Ycas
NA STATE OF THE ST				
API#:	3(0-045-06453	USPLSS:	27N 08W 17 M
Name:	FLORANCE	D LS No. 009	Lat/Long:	36.570070°, -107.709220°
Depth to groundwater:	C	lepth > 100'	Geologic formation:	San Jose Formation (Tsj)
Distance to closest continuously flowing watercourse:	~10 miles N	NW to 'San Juan River'	site elevation: 2069m/6788'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:		W to 'Blanco Canyon' n wash channel		
			Soil Type:	Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
			Annual	Navajo Dam: 12.95", Governador: 11.98",
ras massassassassassassassassassassassassass			Precipitation:	Capulin Rgr Stn.: 14.98", Otis: 10.41"
Domestic fresh water well or spring within 500'		NO	Precipitation Notes:	Historical daily max. precip.: 4.19" (Bloomfield)
Any other fresh water well or spring within 1000'		NO		
				26N7W iWaters.pdf, 26N08W iWaters.pdf,
Within incorporated municipal boundaries		NO	Attached Documents:	26N09W_iWaters.pdf, 27N07W_iWaters.pdf, 27N08W_iwaters.pdf, 27N09W_iwaters.pdf, 28N07W_iWaters.pdf, 28N08W_iWaters.pdf, 28N09W_iWaters.pdf
Within defined municipal fresh water well field		NO	FM3500640750B_30- 045-06453 jpg	30-045-06453_gEarth-iWaters.jpg, 30-045-06453_gEarth- PLS.jpg ,30-045-06453_topo-PLS.jpg
Wetland within 500'		NO	Mining Activity:	None Near
Within unstable area		NO		NM_NRD-MMD_MinesMillQuarries_30-045-06453.jpg
Within 100 year flood plain	NO -	FEMA Zone 'X'		
Additional Notes:			150	
drains to Blanco Canyon'				Atop Blanco Mesa, S of 'Hollis Pass' and W of 'Star Canvon'

Florance D #9 Below Grade Tank Hydrogeologic Report for Siting Criteria

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 pit location will be located in the central Largo Canyon region of the San Juan Basin south of Hollis Pass and atop Blanco Mesa. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, 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). In most of the proposed area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose ranges from 200 to 2700 feet, thickening from west to east (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the San Jose Formation are between 0 and 2700' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River. Little specific Hydrogeologic data is available for the San Jose Formation system, but "numerous well and springs used for stock and domestic supplies" draw their water from the San Jose Formation (Stone et al., 1983).

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. 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

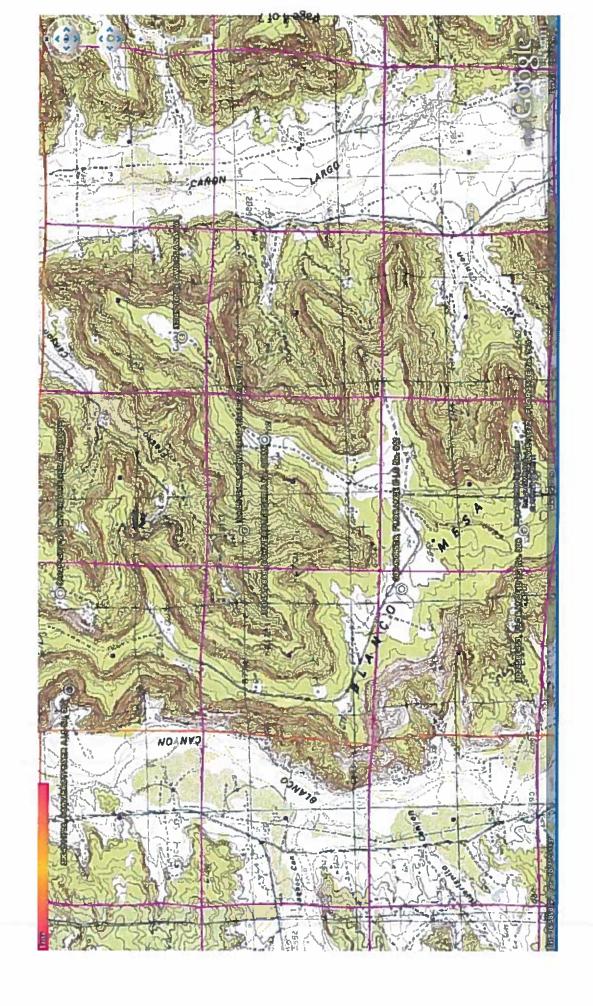
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone, shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the San Jose Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to several hundred feet (USGS, Groundwater Atlas of the US) (Stone et al, 1983).

The site in question is located on relatively flat ground atop Blanco Mesa at an elevation of approximately 6790 feet and approximately 1.2 miles east of Blanco Canyon. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the other dominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Largo Canyon and within major tributary systems. However, an elevation difference between the site and the base of Blanco Canyon of over 500 feet suggests groundwater is considerably deeper at the proposed site.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 3.5 miles southeast in Blanco Canyon (SJ02961). Other 'nearby' iWaters wells are located 5.3 miles northeast (SJ02800), 6.8 miles east-(SJ02314), and 4.6 miles southeast (SJ02410).

Wells located at similar elevations along Largo Canyon contain groundwater primarily at depths greater than 18 feet, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached. An elevation difference of over 500 feet between the site and the nearest major stream channel suggests groundwater is likely deeper than 100 feet.





			● All		
S:	Search Radius:	Number: Suffix:	O Non-Domestic O Domestic O All	POD / Surface Data Report Avg Depth to Water Report	S Menu Help
Township: 28N Range: 08W Sections:	Y: Zone:	Basin:	(Last)	Data Report Avg Depth to W	Clear Form iWATERS Menu
Township: 28	NAD27 X:	County:	Owner Name: (First)	POD / Surface	

WATER COLUMN REPORT 08/04/2008

3	puarters	are	1 II	3	2E	11 N	3=SW 4=SE)							
5)	quarters	BIE	big	96	9	40	smallest)			Depth	Depth Water (in feet)	Water	(in	feet)
POD Number	TWB	Rng	Sec	סי	5	H	Zone	×	×	Well	Water	Column		
SJ 02283	28N	M80	14	4	2	-1				540	480	09		
SJ 00209	28N	08W	17	m	2	<u>_</u>				15				
SJ 00209 -AMENDED-S	-S 28N	M80	17	Z,	, =	1	ZD-S 28N 08W 17 4 1 1			15				
SJ 00209 S	28N	M80	17	4		1				15		15		
SJ 00163 S	28N	. M80	18	4	- V	CI.				1450	800	650		

Record Count: 5

8/4/2008 8:1

-00

New Mexico Office of the State Engineer

WATER COLUMN REPORT 08/11/2008

	(quarters	are	1=1	3	= NE	3	1=NW 2=NE 3=SW 4=SE)							
	(quarters are biggest to sm	are	big	ge	ät t	100	smallest)			Depth	Depth	Water (in)	(in	feet)
POD Number	Tws	Rng	Sec	מ	ם ה	2	Zone	×	Þ	Well	Water	Column		
SJ 00002	28N	07W	14	Ţ						375				
SJ 03116	28N	07W	21	ш,	3					86	20	78		
	Î													

8/11/2008 5:2

Ŀ	
Engineer	spe
State.	Downlo
e of the Si	and l
Office	Leborts
Mexico	PODE
New	

					manual and trades as										
			Township: 28	Township: 28N Range: 06W	Sections:									5	
			NAD27 X:	N.	Zone:		Search Radius.	adius:							
			County	Basin		Number		Suffix							
		Owi	Owner Name: (First)	(Last)		0	Non-Do	O Non-Domestic O Domestic		• All					
			POD/Surface	POD / Surface Data Paport Avg Depth to Water Report Water Column Report	vg Depth to W	Tater Report	Water	Column Report							
				Clear Form	Clear Form WATERS Menu Halp	Menu	e e								
		POD / SURFACE DATA REPORT 10/11/200	T 10/11/2008				30								
	(acre ft per annum)			(quarters are lab! 2 will 3 mSW degit) (quarters are biogest to smallest	1 man 2 mag	3mSW 4mg		X X age in Teet	ى	100 AC	UTM age in Meters		Brart	Finish	Deoth
DB File Whr SD 07849	Use Diversion	Diversion Owner 3 ROSA B. HARTIMES	POD Mumber SD 07649	Source	Twe Rng Sec	8ec q q q	••	×	>4	UTM Zone	Easting Northing 284303 4060381		Date	Date	He11
8J D0200	**	20 BURLINGTON RESOURCES OIL 6	GAS 83 00200	Artesian		23 3 3				13	2815E4	4057870		05/23/1967	1551
8.7 03005		3 DON SCHREIBER	83 03005	П	26H 06W 21	21 4 2 2				13	279663	4058421	06/06/2000	06/10/2000	245
8.7 03043		3 JANE SCHREIBER	6.7 03043	ı	M30	21 4 2 2				13	279663	4058421	09/01/2000	09/05/2000	290
#J 03091	STK	3 JANE SCHREIBER	63 03081	Shallow	M90	29 2 2 3				en (277634	4057457	05/11/2001	05/18/2031	150
П		1 APTHRO D CANCER	100 Can	challon.	77 M30 N87	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		153127 50	60313	n r ⊣ -	7,7807	405/404	300073071	11/10/1000	200
8.3 03700		3 JANE SCHREIBER	8J 03700 Pop1	1.1		12 2 2 4	,	76/6607 /91661	75156	n -4	976797	4019346	02/20/2009	02/25/2006	150
Record Count:	9														

10/11/2008 3::

Township:	POO / SURFACE DATA REPORT 08/12/2008 (quarters are least 3=504 4=52) % see in Feet (quarters are biggest to emails x X are in Feet Source Tys Eng Sec q q q Zone X Y
	POD / a (Acre 2t per annum) DB File Mbr Use Diversion Owner No Records found, try again

8/12/2008 8:2

tange: 08W Sections:	Y: Search Radius:	Number: Suffix:	(Last) ONon-Domestic ODomestic OAil	Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help	UMN REPORT 08/04/2008	
Township: 27N Range: 08W Sections:		County: Basin: Num	1	POD / Surface Data Report Avg Depth to Water Report		WATER COLUMN REPORT 08/04/2008	

Water (in feet) Column Depth Water Depth Well 2200 þi × (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) **Tws Rng Sec q q q** 27N 08W 36 1 3 2 POD Number SJ 02410 8/4/2008 7::

	Search Radius:	Number: Suffix:	ONon-Domestic ODomestic OAll	aport Water Column Report	Help
Township: 27N Range: 07W Sections:	NAD27 X: Zone:	County: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help

WATER COLUMN REPORT 08/04/2008

ф) (ф)			1	1	1								
	uarters	are	bigg	1681	t to	(quarters are biggest to smallest)				Depth	Water	(in	feet)
	TWS	S gra	000	5	ש	Zone	×	×		Water	Column		
RG 81025	27N (7W 3	35 4	m	m					465	95		
	27N C	17W 1	15 2						1633	200	1133		
7 02314	27N (7W 1	17 3	m						320	35		
	27N C	2 WT(21 2	=	٣					300	100		
	27N C	€ MLC	35 3	4	4								
7 02404	27N C	77W 3	35 4	m	m				550	250	300		

Record Count:

8/4/2008 8:0

Engineer	oads
of the State	and Down
Dice.	ports
New Mexic	POD Re

li di	POD / SURFACE DATA R Diversion Owner 0 EL PASO HATURAL GAS CO	Owner Name: (First) Owner Name: (First) POD/Surface POD / Surface POD / Surfa	AD27 X: Y: Zone:	Avg Depth to Water I Avg Depth to Water I Avg Depth to Water I Avg Depth to See Tee Budgest Tee Budges Tee Budgest Tee Budgest Tee Budgest Tee Budgest Tee Budgest Tee	Menu Mer Papo	Honor Number Search Radius: Search Radius: Suffix Suffx Suffix Suffi		Are Cone	h Meters) Rasting Northing 276278 4044923	Btart Data 11/01/1956	Fintsh Date 11/07/1956	Depth Wall 145
5.J 66213 5.J 02291	IND 17 EL PASO NATURAL GAS COMPANY STK 3 BLM	6J 00213	Shallow	27N 27N	06W 32 1 4 4		-1 41	3 276897			06/20/1974	1308
03001	DOH 2 JOE OR WILMA KAIME DOH 3 CHARLES E. BRADLEY	EJ 02403	Shallou	27H	06W 30 3 1 3			274714		06/20/2000	12/31/1946	505

9/16/2008 2:0

			● All		
	Search Radius:	Number: Suffix:	ONon-Domestic ODomestic OAll	Avg Depth to Water Report Water Column Report	u Help
Sections:	Zone:			Depth to Water F	WATERS Menu
Township: 26N Range: 09W	X:	Basin:	(Last)	POD / Surface Data Report Avg	Clear Form
Township: 526	NAD27 X:	County:	Owner Name: (First)	POD / Surface	

WATER COLUMN REPORT 08/08/2008

	(quarters	a re	I =	32	=NE	3=SW 4=SE)						
	(quarters	are	big	ges	it to	(quarters are biggest to smallest)		Depth	Depth	Water (in	(in	feet)
POD Number	TWB	Rng	Sec	D.	0	Zone	×	Well	Water	Column		
SJ 02961		M60	01 2 2 3	2	е С			1500				
8J 02962			01	ω '''	<u>س</u>			1500				
8J 01756				2	2 2 3			75	40	35		
SJ 03811 POD1			12	m	3			348	175	173		
SJ 00412	26N	M60	16	4	٥.			202	65	137		
SJ 00214			26	2 4	2			946	230	716		
SJ 00064			26 ,	4	7 7			490	215	275		
SJ 00063			26 ,	4	m			479	234	245		

Record Count: 8

8/8/2008 1:5

ions:	ne: Search Radius:	Number: Suffix:	ONon-Domestic ODomestic @All	Water Report Water Column Report	WATERS Menu Help
Township: 26N Range: 08W Sections:	NAD27 X: Y: Zone:	County: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATE

WATER COLUMN REPORT 08/07/2008

ar Tws Rng Sec q q q Zone X Y Well Water 26N 08W 01 3 4 3 180 100 26N 08W 01 4 4 1 6000 26N 08W 01 4 4 1 2200		(quarters	are	Did	3	ZHN St	t B	smallest)			Depth	Depth	Water	(in	feet)
26N 08W 01 3 4 3 180 100 26N 08W 01 4 4 1 6000 25N 08W 01 4 4 1 2000	Mumber	Tws	Rng	Sec	שו	ה ה		Zone	×	×	Well	Water	Column		
26N 08W 01 4 4 1 6000	7 02405	26N	M80	01	m	L.					180	100	80		
26N 08W 01 4 4 1	7 02411	26N	M80	01	4	4					0009				
	J 02407	26N	08W	01	7	-					2200				

Record Count:

8/7/2008 6:2

			(e) All		
	П	īx:	ONon-Domestic ODomestic ® All	tio.	
	lius:	- Suffix:	itic O	ımın Rep	
	Search Radius:		-Domes	ater Colu	
	Seg	Number:		POD / Surface Data Report Avg Depth to Water Report Water Column Report	Help
		Ž		ter Repo	
Sections:	Zone:			th to Wa	WATERS Menu
1	T		(Last)	Avg Dep	
Township: 26N Range: 07W	\ \ \ \ \		ا ج	port	Clear Form
Rar		Basin:		Data Re	O
up: 26N	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M ==	L	Surface	
Towns	NAD27 X:		(First)	POD/	
	NA	L :x	Owner Name:		
		County:)wner		

WATER COLUMN REPORT 08/06/2008

	(quarters	are	1 2	12	Z	ក្នា ស	-SW 4=SE	_						
	(quarters	are	big	96	يد	5	smallest	_				Water	(in	feet)
H	Tws	grag !	300	п	ט	14	Sone	×	×			Column		
	26N C	7W (1	7	2							300		
SJ 02402	26N 07W 05 3 3 2) W (m	2					36	18	18		
	26N C	7W 1			2							339		
	26N 0	7W .	. 21	5 7	<u>س</u>							313		
SJ 02406	26N 0	ML(000	(A)	٦							100		

Record Count:

8/6/2008 3:0

Suffix:	ONon-Domestic O Domestic ® All	lumn Rej	
Number:	○ Non-D	t Water Column Report	Heip
Nu		Depth to Water Repor	WATERS Menu Help
3asin:	(Last)	Data Report Avg	Clear Form
	Name: (First)	POD / Surface	
	County: Basin: N	me: (First) Basin: [Last)	(First) Basin: (Last) POD / Surface Data Report Avg Depth to Water Re

WATER COLUMN REPORT 08/12/2008

Depth Well × × (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone POD Number

Depth Depth Water (in feet) Y Well Water Column

No Records found, try again

8/12/2008 10::

POD / Surface Data Report	NAD27 X: Zone: Zone: Search Radius:	Township: 28N Range: 09W Sections:	Township: 28N Range: 09W Sections: D27 X: Y: Zone: Nu Basin:
	Basin: Number:	NAD27 X: Y: Zone: Search Radius Basin: Number:	(First) (Last)
		Y: Zone:	Basin: Number:

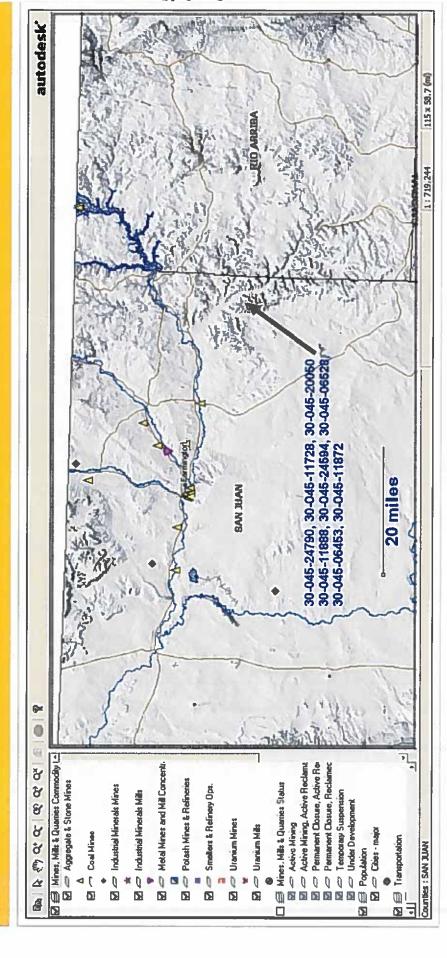
WATER COLUMN REPORT 08/06/2008

	(quarters	are		3	2=N	园	3=SW 4=S	េ						
	(quarters	are	big	95	4	4	smalles'	T.		Depth		Water	(in	feet)
POD Number	Tws	Rng :	Sec	טי	ה ה	_	Zone	×	>1	Well		Column		
8J 03746 POD1	28N	. W60	20	-	2 3					190		150		
SJ 00018	28N 09W 20 3 1 4	M60	20	m	1 4					135	71	64		
SJ 02800	28N	M60	24	~	2 3					200				

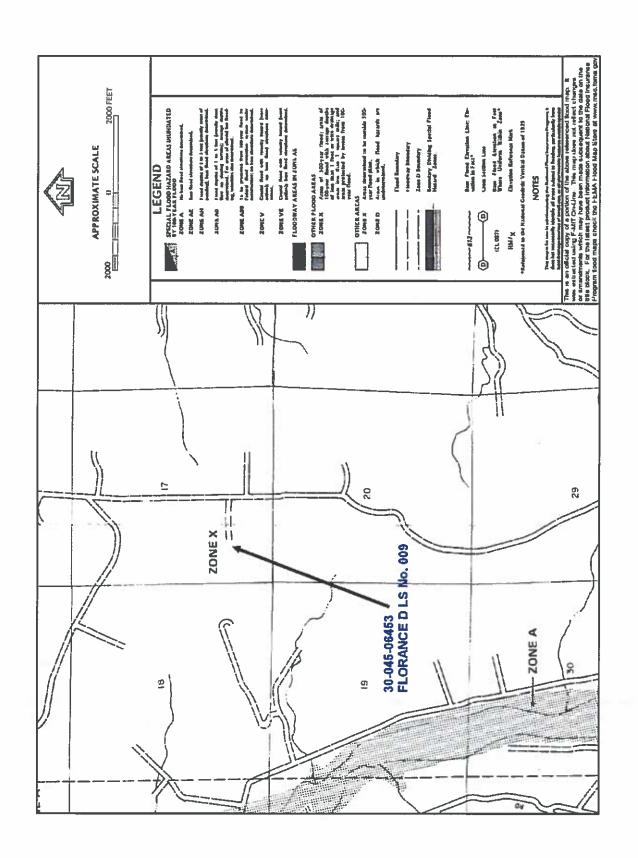
Record Count: 3

8/6/2008 3:1





Mines, Mills and Quarries Web Map



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.

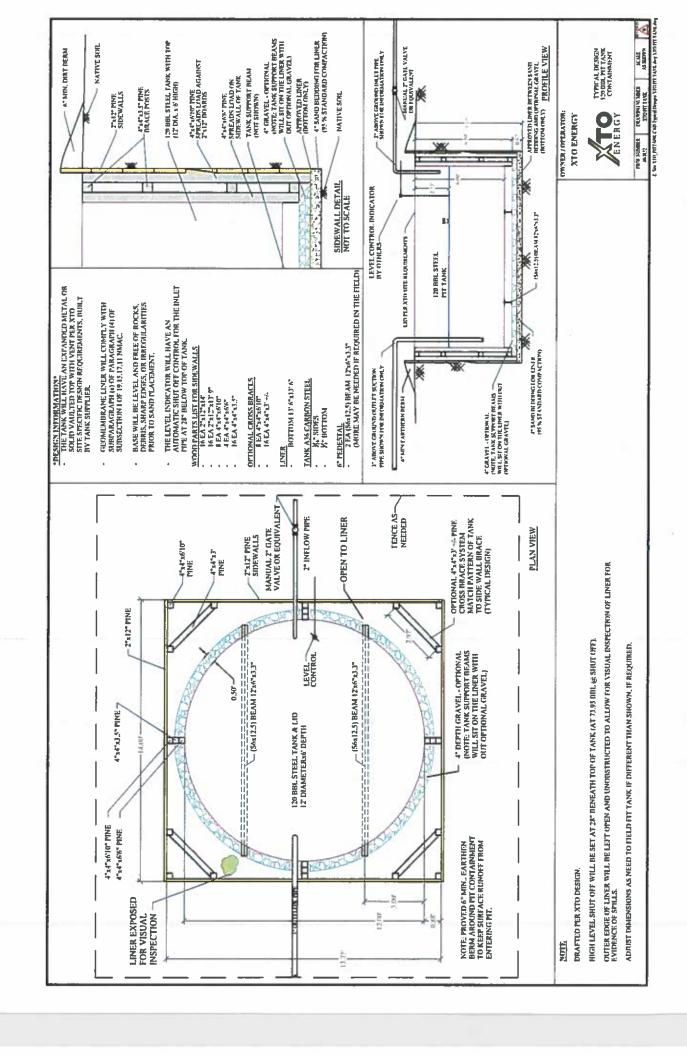
General Plan

- 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.
- 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 ½" 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).

- 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

- 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.
- 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.

-		Freeboard Est. (ft)											
		Any visible signs of a tank leak (Y/N)											
N FORM		Visible layer of oil (Y/N)									1		
NSPECTIO API No.:	Range:	Collection of surface run on (Y/N)											
MONTHLY BELOW GRADE TANK INSPECTION FORM API No.:		Any visible signs of tank overflows (Y/N)											
ILY BELOY	Township:	Any visible liner tears (Y/N)							otion:	in the second			
NOM		Inspection							Provide Detailed Description:				
	လိုင်း	Inspection	-						Provide De				¥
Well Name:	Legals	XTO Inspector's Name							Notes:				

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.
- 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.