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 -1220 S. St. Francis Dr., Santa Fe, NM-87505, LUUJ LIN

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to

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

Pit, Closed-Loop System, Below-Grade Tank, or											
Proposed Alternative Method Permit or Closure Plan Application											
Type of action: Existing BGT Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,											
below-grade tank, or proposed alternative method											
Instructions: Please submit one application (Form C-144) per individual pit, closed-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.											
I. Operator: XTO Energy, Inc. OGRID #: 5380											
Address: #382 County Road 3100, Aztec, NM 87410											
Facility or well name: Valencia Canyon Unit #35											
API Number: 30-039-21612 OCD Permit Number:											
U/L or Qtr/Qtr M Section 34 Township 28N Range 04W County: Rio Arriba											
Center of Proposed Design: Latitude											
Surface Owner: A Federal State Private Tribal Trust or Indian Allotment											
2.											
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. Below-grade tank: Subsection I of 19.15.17.11 NMAC											
Volume: 120 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											

Alternative Method:

Liner type: Thickness

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other <u>Visible sidewalls, vaulted, automatic high-level shut off, no liner</u>

mil HDPE PVC Other

6. 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)	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									
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)									
☐ Screen ☐ Netting ☐ Other Expanded metal or solid vaulted top									
Monthly inspections (If netting or screening is not physically feasible)									
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.									
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 appropriate 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 dryitabove-grade tanks associated with a closed-loop system.	priate district pproval. ng pads or								
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								

11.
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:
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
☐ Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
· · · · · · · · · · · · · · · · · · ·
attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
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
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank 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)
15.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) 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 future service and operations? Yes (If yes, please provide the information below) No											
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC											
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.											
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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											
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells											
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site											
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No										
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site											
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										

Page 4 of 5

Operator Application Certification:										
I hereby certify that the information submitted with this application is true,	accurate and complete to t	the best of my knowledge and belief.								
Name (Print): Kim Champlin	Title:	Environmental Representative								
Signature: him Champler	Date:	01/02/2009								
		(505) 333-3100								
OCD Approval: Permit Application (including closure plan) Clos	sure Plan (only) 🔲 OCE	Conditions (see attachment)								
OCD Representative Signature:		Approval Date:								
Title:	OCD Permit Núm	nber:								
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 Com	pletion Date:								
22. Closure Method: Waste Excavation and Removal On-Site Closure Method A If different from approved plan, please explain.	Alternative Closure Method	l ☐ Waste Removal (Closed-loop systems only)								
23. Closure Report Regarding Waste Removal Closure For Closed-loop Sy Instructions: Please indentify the facility or facilities for where the liquid two facilities were utilized.										
Disposal Facility Name:	Disposal Facility F	Permit Number:								
Disposal Facility Name:	Disposal Facility F	Permit Number:								
Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate compliance to the items below)		t be used for future service and operations?								
Required for impacted areas which will not be used for future service and of Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	perations:									
24. Closure Report Attachment Checklist: Instructions: Each of the follow 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)	sure)									
On-site Closure Location: LatitudeL	ongitude	NAD: [] 1927 [] 1983								
25. Operator Closure Certification:										
I hereby certify that the information and attachments submitted with this clobelief. I also certify that the closure complies with all applicable closure rec										
Name (Print):										
Signature:										
e-mail address:	Telephone:									

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

CK

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Oates				i_ease	Well No.								
AMOCO PRODU	CTION COMPAN	Y			Canyon Unit		35						
Unit Letter M	Section 34	Township	28N	Range 4W	County	Rio Arri	ba						
Actual Footage Loca 950	ation of Well:	South	line and	810	feet from the	West	line						
Ground Level Elev. 7109	Producing For	motion esaverde		Pool	co Mesaverd		Dedicated Acreage: 43,60						
1. Outline th	e acreage dedica	ted to the	subject we	ell by colored per	cil or hachure	marks on the	plat below.						
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).													
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?													
Yes	No If a	nswer is "	yes," type o	f consolidation _									
	is "no," list the f necessary.)	owners an	d tract desc	riptions which ha	ve actually be	en consolidat	ted. (Use reverse side of						
No allowat	ole will be assign	ed to the wo	ell until all non-standar	interests have b d unit, eliminatin	een consolidat g such interest	ed (by comm s, has been a	nunitization, unitization, approved by the Commis-						
					I		CERTIFICATION						
	ţ					I hereby ce	errify that the information con-						
	·					1	in Is true and complete to the knowledge and belief.						
	İ				٤	71	Kush						
	+					Norme J. L.	KRUPKA						
	1			i I		Position DISTRI	CT ENGINEER						
				 		Company AMOCO	PRODUCTION COMPANY						
						Date Januar	y 8, 1979						
	S	ec	34										
	1		34	1			certify that the well location his plot was plotted from field						
				-		notes of a	ctual surveys made by me or upervision, and that the same						
						is true an	and belief.						
	+			4		, and a coope							
810'	 					Date Surveye	r 30, 1977						
_					1	Registered P and/or Land	rolessional Engineer Surveyor,						
0.50	7			!		_	l signed by . Kerr, Jr.						
	190 1320 1650 19	80 2310 26	40 200	1500 1000	500 O	Certificate N							
0 330 660	320 1030 19												

			Client:	VTO Engrave					
A1-1-4-C	- 1	Pit Permit		XTO Energy					
Lodestar Service	es, inc.	Siting Criteria	Project:	tank permitting					
PO Bez 4465, Duran	ga, CO 81302		Revised:	25-Nov-08					
V		Information	Prepared by:	Trevor Ycas					
API#:	30	-039-21612	USPLSS:	28N 04W 34 M					
Name:	VALENCIA C	ANYON UNIT No. 035	Lat/Long:	36.609670°, -107.243780°					
Depth to groundwater:	c	lepth < 50"	Geologic formation:	San Jose Formation (Tsj), alluvium					
Distance to closest continuously flowing watercourse:	~23 miles iv	W to 'San Juan River' Ivajo Reservoir	Site Elevation: 2151m/7057	groundwater depth estimation is based primarily on elevation of nearby springs					
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	507 E to '\	/alencia Canyon'							
			Soil Type:	Rockland/ Aridisols					
Permanent residence, school, hospital, institution or church within 300		NO							
	THE RESERVED		Annual	Navajo Dam: 12.95", Governador: 11.98",					
			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							
		The state of the s							
Within incorporated municipal boundaries		NO	Attached Documents:	27N03W_iWaters:pdf, 27N04W_iWaters.pdf, 27N05W_iWaters.pdf, 28N03W_iWaters.pdf, 28N04W_iwaters:pdf, 28N05W_iwaters.pdf, 29N03W_iWaters:pdf, 29N04W_iWaters.pdf, 29N05W_iWaters.pdf					
Within defined municipal fresh water well field		NO	FM350049IND0_30- 039-21612.jpg	30-039-21612_gEarth-PLS.jpg, 30-039-21612_topo- :PLS.jpg, 30-039-21612_gEarth-iWaters.jpg					
				A STATE OF THE STA					
Wetland within 500'		NO	Mining Activity:	None Near					
				NM_NRD-MMD_MinesMillQuarries_30-039-21612.jpg					
Within unstable area	Continues of the continues of the fi	NO		The state of the s					
Within 100 year flood plain	unr	napped area							
	a summi		S Love Ctally	at the same was a second					
Additional Notes: drains to 'Cereza Canyon' via 'Valencia Canyon'	SP03619(elev. 2 water; Scissor S	igs SP03972(elev: 2182m), 211m) both supply livestock pring(SP03622) (elev:2234m) Chosa Spring(USGS) (elev. 2177m)		located on 'Vigas Mesa', W of 'Lost Canyon', W of 'Valencia Canyon'					

Valencia Canyon Unit #35 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 Cereza Canyon region of the San Juan Basin near the upper reaches of Valencia Canyon and near Vigas & Chosa Mesas. 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 across the region of interest (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 north, toward the San Juan River. Little specific hydrogeologic data is available for the San Jose Formation system, but "numerous wells 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 exhibiting little to no 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.

Regional weather further prohibit active recharge. The climate is arid, averaging just over 12 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

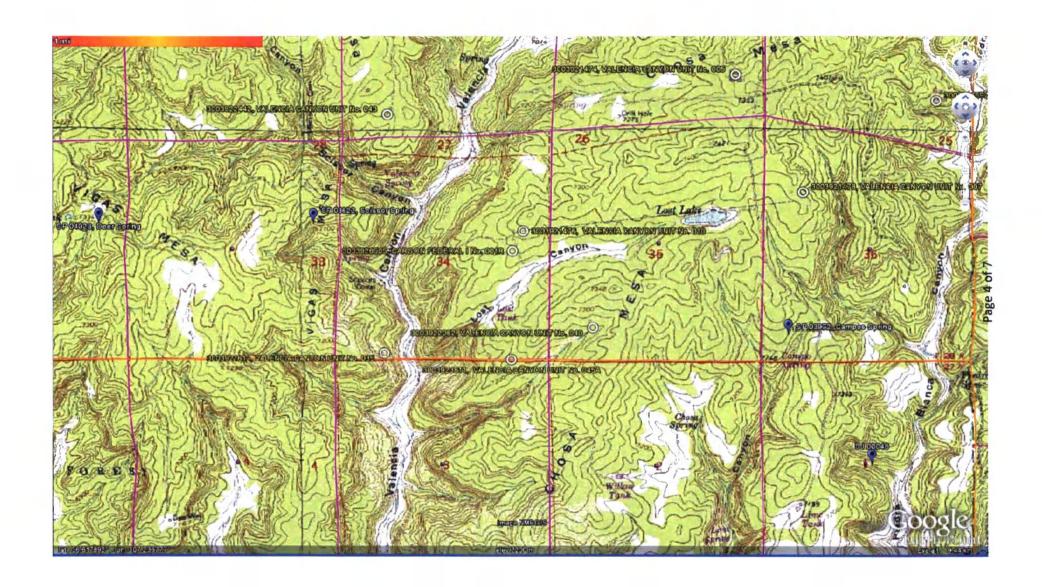
Depth to groundwater is estimated to be less than 50'. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography, proximity to adjacent channels & spring features at similar elevations nearby are also taken into consideration.

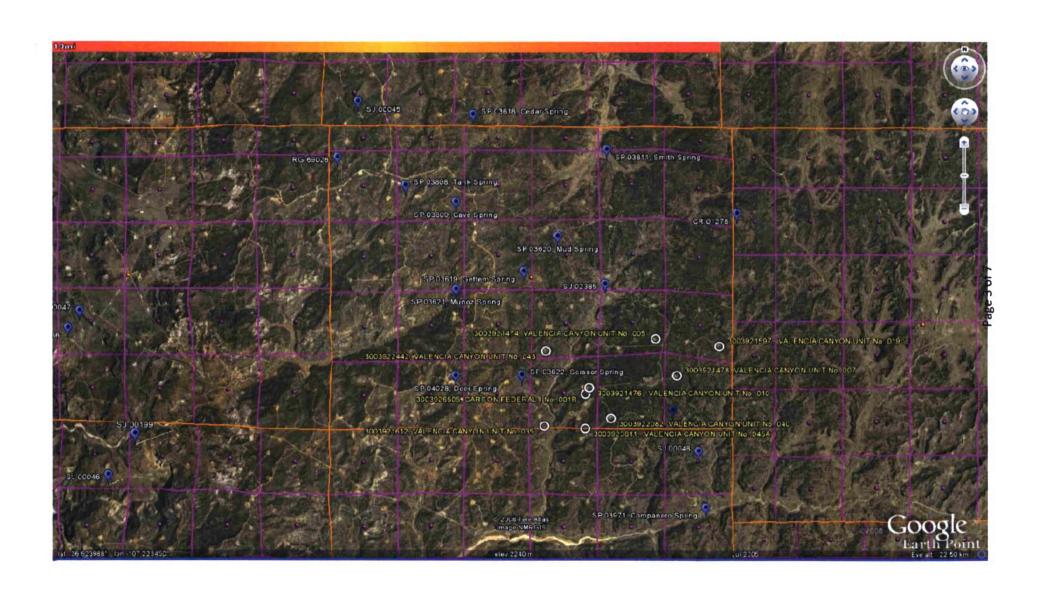
Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone & shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while 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 rolling, hilly terrain west across Valencia Canyon from Lost Canyon, at an elevation of approximately 7050 feet and approximately 1.6 miles north of the main Cereza Canyon wash channel, the nearest significant watercourse. This site drains to Cereza Canyon via Valencia Canyon. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the predominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. Groundwater is expected to be shallow within Largo and Blanco Canyons and within major tributary systems. Additionally, the Valencia Canyon area has many surface springs at varying elevations, including at least 6 within 5 miles of this 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, Scissors Spring, lies ~2500-3600' north (SP 03622); this spring is used for livestock watering, as are many others in the surrounding area. 'Deer Spring' is located ~1.4 miles NW of the site in question, at a higher elevation.

Wells located at similar elevations nearby contain groundwater at depths of 45 feet and deeper, occasionally in excess of 200 feet. However, there exist numerous surface springs in the PLSS section 28N, 04W. The exact topography(spring proximity, a drainage), numerous springs, and elevation relative to nearby surface spring features (approx. 0'-100' higher) is not enough to be certain that groundwater is deeper than 50 feet. A map showing the location of wells in reference to the proposed pit location is attached.





						to post	July Donimones								
				Towns	hip: 28N Range: 05W	Se	ections:								
				NAD27	X: Y:		Zone: S	earch Radius							
				County:	Basin:		Number	: S	uffix:						
				Owner Name: (First)	(Las	st)	0 N	Von-Domestic	O Domestic	⊕ All					
				POD	/ Surface Data Report	Avg De	oth to Water Report	Water Colum	n Report						
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SD 07851	PDL	3	ROSA B. MARTINEZ	SD 07851		28N	05W 18 1 2 1			13	285228	4060731			
8D 07852	PDL	3	ROSA B. MARTINEZ	8D 07852		28N	05W 18 2 1 1			13	285579	4060759			
8J 00036	IND	65	BURLINGTON RESOURCES O				05W 28 3			13	268156	4056298	06/27/1953	06/27/1953	303
SJ 00047	NOT	0	MAMIE MANGUM	8J 00047						13	288558	4056700	07/30/1953		465
8J 01893	STK	3	ROSA B. OR JUAN L. MAR				05W 18 4			1.3	285827		09/14/1984		390
8J 03806	STK	3	ROSA B. MARTINEZ	SJ 03806				1305	09 2065482	13	286111	4061033			320

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SJ 00045	IND	0	U.S. GOVERNMENT	8J 00		28N					13	295235	4061453	09/04/1952	09/10/1952	600
8J 02385	STK	3	CARSON NATIONAL FOREST		Shallow	28N					13	300818	4057064			160
8P 03618	STK	1.88	UNITED STATES OF AMERICA		618	28 N					13	297832	4061209			
8P 03619	STK	0.36	UNITED STATES OF AMERICA	SP 03		28N					13	298924	405741€			
SP 03620	STK	0.36	UNITED STATES OF AMERICA		620	2 B N					13	299736	4058240			
SP 03621	STK	0.58	UNITED STATES OF AMERICA		3621	28N					13	297324	4057019			
SP 03622	STK	0,36	UNITED STATES OF AMERICA		1622	28N					13	298821	4054927			
SP 03808	STK	1.67	CARSON NATIONAL FOREST		808	28N					13	296199	4059551			
SP 03809	STK	1.67	CARSON NATIONAL FOREST	SP 03		26N					13	297376	4059116			
SP 03811	STK	1.67	CARSON NATIONAL FOREST		911	28N					13	300941	4060310			
SP 03972	STK	0	CARSON NATIONAL FOREST		972	28N					13	302344	4053996			
SP 04028	STK	0.85	CARSON NATIONAL FOREST	SP 04	1028	28N	04W 32 2 4				13	297271	4054953			

No Records found, try again

Township: 28N Range: 03W Sections:
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RG 81026 STK	3 BUREAU OF LAND MANAGEMENT	RG 81026 Shallo			13	290530 4046294	09/12/2003	09/16/2003	460
SJ 00046 IND SJ 00199 OFM	16 BURLINGTON RESOURCES OIL & GAS 4 BURLINGTON RESOURCES OIL & GAS		w 27N 05W 04 4 4 an 27N 05W 03 2 1		13 13	289133 4052788 290409 4053971	01/13/1954	01/13/1954	506 1840
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BJ 00048	IND	48				Shallow		04W 01				13	302928	4052997	07/28/1953	07/31/1953	143
SJ 01049	IND	30,55					27N					13	295646	4049831		06/30/1967	15
8J 01205	OIL	60			01205	Artesian		04W 34 4 4 4				13	300255		10/18/1980	10/25/1980	3054
8P 03616	STK	0.58			03616			04W 24 2 4				13	303452	4048375			
SP 03617	STK	0.50			03617			04W 25 4 4				13	303396	4045974			
SP 03010	PLS	1,24					27N	04W 30 1 2				13	294693	4047368			
SP 03971	STK	D	CARSON NATIONAL FOREST	RP	03971		27N	04W 12 2 3				17	303116	4051580			

Date

Well 1

UTM Zone Easting Northing Date

New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 27N Range: 03W Sections: Zone: Search Radius: County: Basin: Suffix: Number: Owner Name: (First) (Last) O Non-Domestic O Domestic O All POD / Surface Data Report | Avg Depth to Water Report | Water Column Report Clear Form WATERS Menu Help POD / SURFACE DATA REPORT 10/19/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in Feet Depth

Source Tws Rng Sec q q q Zone

POD Number

No Records found, try again

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WATER COLUMN REPORT 08/12/2008

	•	uarters are 1=NW 2=NE 3=SW 4=SE) uarters are biggest to smallest)							Depth	Depth	Water	(in feet)
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SJ 02339	29N	0.5W	29	3	3 3				350	108	242	
SJ 00422	29N	05W	31	2					239	135	104	
SJ 00056	29N	05W	31	2 :	3 1				142	50	92	
SJ 00057	29N	05W	31	2	3 1				158	57	101	
SJ 03208	29N	05W	31	3 :	3 3				220	160	60	
SJ 02383	29N	05W	32	1 :	1 1				300	100	200	

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(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone X

29N 03W 08 4 4 2

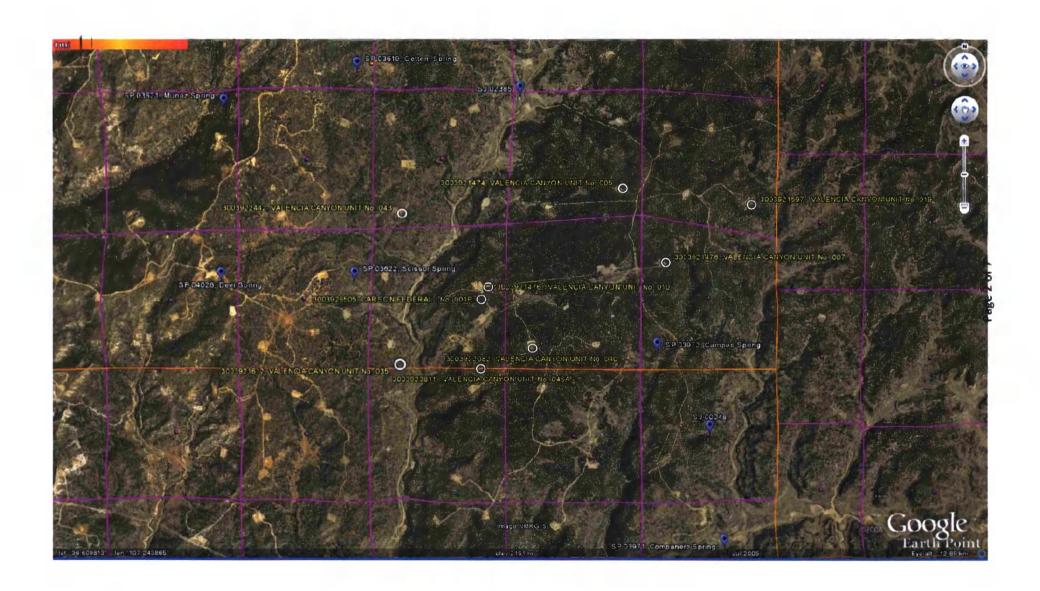
Depth Depth Water (in feet) Y Well Water Column

306

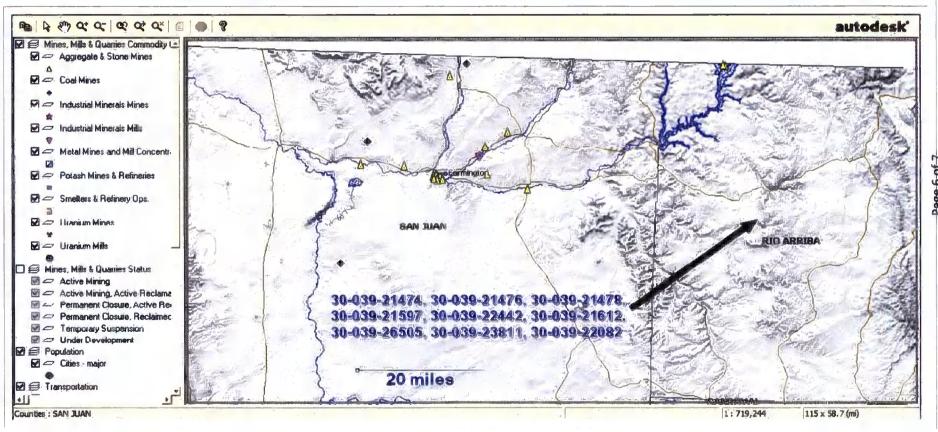
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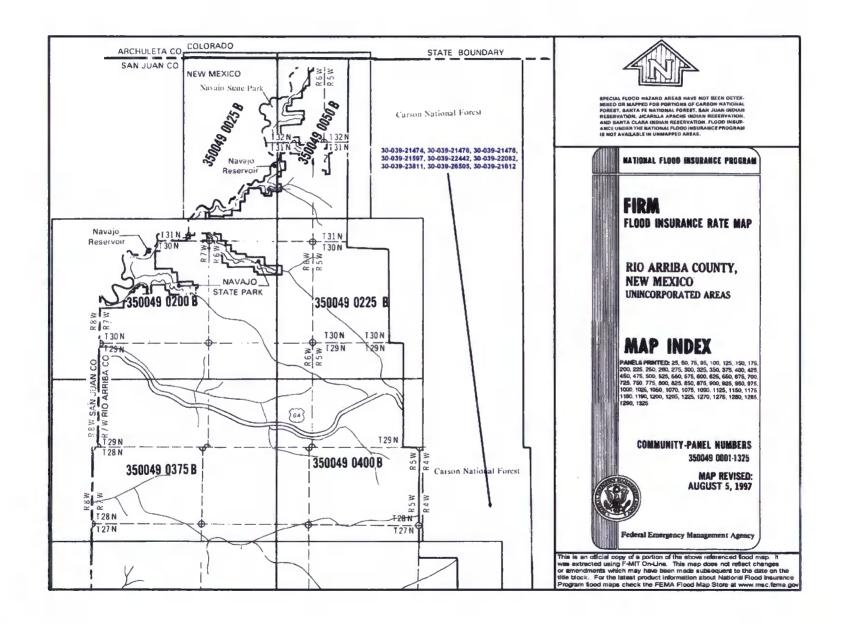
POD Number

SJ 01575



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.

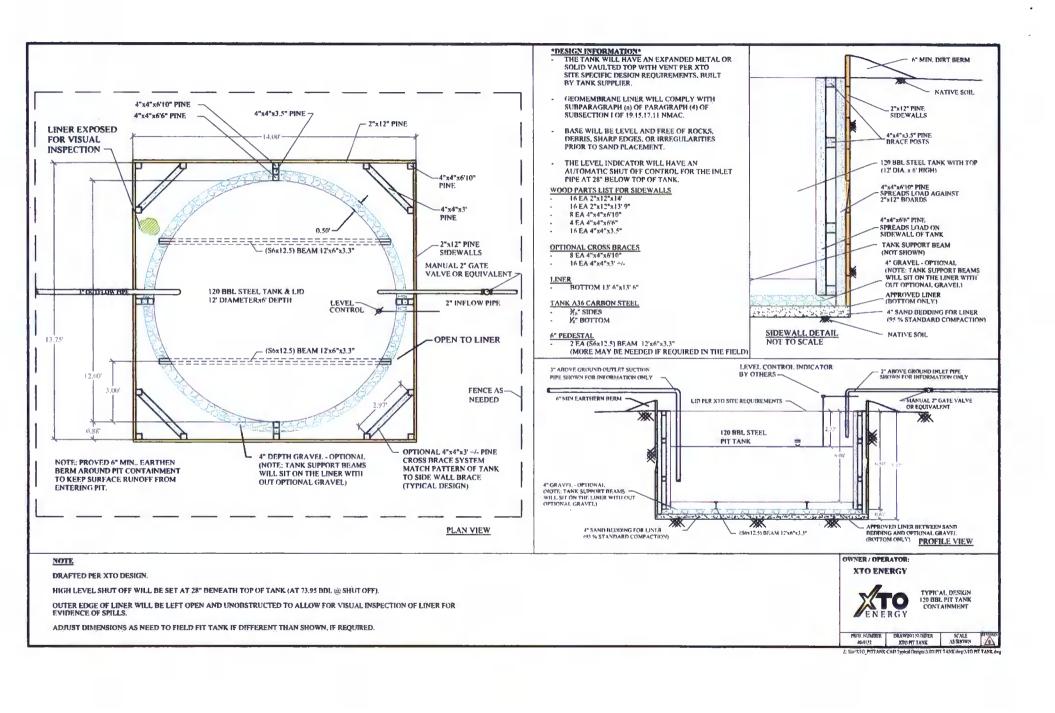
General Plan

- 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.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and 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.
 - 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	e:				API No.:				
Legais	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 of oil (Y/N)	Any visible signs of a tank leak (Y/N)	Freeboard Est. (ft)	
						,			
Notes:	Provide De	tailed Descri	ption:						
									
Misc:									
								<u>-</u>	
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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

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

General Plan

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

- 8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
- 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.