District | 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aziec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

2009 JAN 20

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 BGT1 Permit 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 ordinary.	ance
Operator: XTO Energy, Inc. OGRID #: 5380	
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name: _Mountain Ute Gas Com C #2	
API Number: 30-045-29416 OCD Permit Number:	
U/L or Qtr/Qtr B Section 01 Township 31N Range 14W County: San Juan	
Center of Proposed Design: Latitude 36.935750 Longitude 108.258160 NAD: ☐1927 ☒ 19	83
Surface Owner: 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 intent)	of
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
Liner Seams: Welded Factory Other	
The season of th	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120bbl 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	PM
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _Visible sidewalls, vaulted, automatic high-level shut off, no liner	1:45:25
Liner type: Thickness mil HDPE PVC Other	1:45
anti type. Thicknessint int _	- 0

Form C-144

Alternative Method:

Oil Conservation Division

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

Page 1 of 5

Released to Imaging: 8/

Chain India, six feet in height, two strands of barbed wire at top (Required If located within 1000 feet of a permanent residence, school, hospital, autitation or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify_Four foot height, steed mesh field fence (hosewire) with nine too railing Alternate. Please specify_Four foot height, steed mesh field fence (hosewire) with nine too railing Alternate. Please specify_Four foot height, steed mesh field fence (hosewire) with nine too railing Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other_Expanded mest or sold vauleted top Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspections (If netting or screening is not physically feasible) Monthly inspection (If netting or screening is not physically feasible) Monthly inspection or specifical or some of fire following is required to a feasible fea	6.	
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12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Monthly inspections (If netting or screening is not physically feasible)	
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Yes	Applies to permanent pits)	⊠ NA
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Tithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance lopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality Tithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Tithin the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Tithin an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	☐ Yes ☑ N
lopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality (ithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site (ithin the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division (ithin an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		
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'ithin an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map □ Yes □	Within the area overlying a subsurface mine.	☐ Yes 🖾 N
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		
Society; Topographic map		☐ Yes ☑ N
Form C-144 Oil Conservation Division Page 2 of 5		
Form C-144 Oil Conservation Division Page 2 of 5	Within a 100-year floodplain,	☐ Ves ☑ N
Form C-144 Oil Conservation Division Page 2 of 5		
Form C-144 Oil Conservation Division Page 2 of 5		
Form C-144 Oil Conservation Division Page 2 of 5		
	Form C-144 Oil Conservation Division Page 2 c	of 5

II. Temporary Pits. Emergency Pits, and Below	v-grade Tanks Permit Application Attachme	ent Checklist: Subsection B of 19.15.17.9 NMAC
		cate, by a check mark in the box, that the documents are
attached. Hydrogeologic Report (Below-grade Tar	nks) - based upon the requirements of Paragraph	h (4) of Subsection B of 19.15.17.9 NMAC
	nergency Pits) - based upon the requirements of ons - based upon the appropriate requirements of	f Paragraph (2) of Subsection B of 19.15.17.9 NMAC of 19.15.17.10 NMAC
Design Plan - based upon the appropriate	e requirements of 19,15.17.11 NMAC	
	upon the appropriate requirements of 19.15.17	7.12 NMAC propriate requirements of Subsection C of 19.15.17.9 NMA(
and 19.15.17.13 NMAC	mough to, it appreades based apoit the app	noprime requirements of subsection of the subsection of
Previously Approved Design (attach copy	of design) API Number:	or Permit Number:
12.		
	tachment Checklist: Subsection B of 19.15.1 ast be attached to the application. Please indic	7.9 NMAC cate, by a check mark in the box, that the documents are
ittached.		•
		ents of Paragraph (3) of Subsection B of 19.15.17.9 appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriat		appropriate requirements of 15.15.17.18 (11.17.10
	d upon the appropriate requirements of 19.15.17	
Closure Plan (Please complete Boxes 14 and 19.15.17.13 NMAC	I through 18, if applicable) - based upon the app	propriate requirements of Subsection C of 19.15.17.9 NMA
☐ Previously Approved Design (attach copy	of design) API Number:	
Previously Approved Operating and Maint	enance Plan API Number:	(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and p	propose to implement waste removal for closure	e)
3.		w
Permanent Pits Permit Application Checklis		rate, by a check mark in the box, that the documents are
ittached.	is be unacrea to me appreasion. I lease mate	and by a treet mark in the box, that the abenine is are
	requirements of Paragraph (1) of Subsection B	
Climatological Factors Assessment	ons - based upon the appropriate requirements	of 19,15,17,10 NMAC
	sed upon the appropriate requirements of 19.15	5.17.11 NMAC
☐ Dike Protection and Structural Integrity	Design - based upon the appropriate requireme	ents of 19.15.17.11 NMAC
Leak Detection Design - based upon the	appropriate requirements of 19.15.17.11 NMA	AC
☐ Liner Specifications and Compatibility A ☐ Quality Control/Quality Assurance Cons	Assessment - based upon the appropriate requirestruction and Installation Plan	ements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based	d upon the appropriate requirements of 19,15,17	7.12 NMAC
	Plan - based upon the appropriate requirements	of 19.15.17.11 NMAC
 Nuisance or Hazardous Odors, including Emergency Response Plan 	3 H ₂ S, Prevention Plan	
Oil Field Waste Stream Characterization	1	
Monitoring and Inspection Plan		
Erosion Control Plan	4	NIMAC 10 15 17 12 NIMAC
Closure Plan - based upon the appropria	te requirements of Subsection C of 19.15.17.9	NMAC and 19.13.17.13 NMAC
4. Proposed Closure: 19.15.17.13 NMAC		
	boxes, Boxes 14 through 18, in regards to the	proposed closure plan.
	ncy Cavitation P&A Permanent Pin	t 🗵 Below-grade Tank 🔲 Closed-loop System
Alternative		
Proposed Closure Method: Waste Excavat	tion and Removal al (Closed-loop systems only)	
	re Method (Only for temporary pits and closed-	loop systems)
☐ in-	-place Burial On-site Trench Burial	
	osure Method (Exceptions must be submitted to	o the Santa Fe Environmental Bureau for consideration)
s. Vaste Excavation and Removal Closure Pla	n Checklist: (19.15.17.13 NMAC) Instructio	ns: Each of the following items must be attached to the
losure plan. Please indicate, by a check mar	rk in the box, that the documents are attached.	•
	the appropriate requirements of 19.15.17.13 NM ble) - based upon the appropriate requirements of the contract	
	nber (for liquids, drilling fluids and drill cutting	
Soil Backfill and Cover Design Specific	ations - based upon the appropriate requiremen	its of Subsection H of 19.15.17.13 NMAC
	propriate requirements of Subsection I of 19.15. appropriate requirements of Subsection G of 19	
and a whole the	41 -E damentario de mandaminio de 13	
	Oil Conservation Division	Page 3 of 5
Form C-144	Conscivation Division	rage 5 or 5
Form C-144		

Disposal Facility Name:	Disposal Facility Permit No	umber:
	Disposal Facility Permit No	
	ations and associated activities occur on or in areas that will i	
Re-vegetation Plan - based upon the appro	ed for future service and operations: ons based upon the appropriate requirements of Subsection oriate requirements of Subsection I of 19.15.17.13 NMAC propriate requirements of Subsection G of 19.15.17.13 NMAC	
rovided below. Requests regarding changes to	ionstration of compliance in the closure plan. Recommend certain siting criteria may require administrative approval f d to the Santa Fe Environmental Bureau office for consider	from the appropriate district office or ma
Fround water is less than 50 feet below the botto - NM Office of the State Engineer - iWAT	n of the buried waste. ERS database search; USGS; Data obtained from nearby well	Yes N
round water is between 50 and 100 feet below t - NM Office of the State Engineer - iWAT	ne bottom of the buried waste ERS database search; USGS; Data obtained from nearby well	Yes N
Fround water is more than 100 feet below the bo - NM Office of the State Engineer - iWAT	tom of the buried waste. ERS database search; USGS; Data obtained from nearby well	Yes N
Vithin 300 feet of a continuously flowing watercake (measured from the ordinary high-water man - Topographic map; Visual inspection (cer		ebed, sinkhole, or playa
Vithin 300 feet from a permanent residence, scho - Visual inspection (certification) of the pro-	ol, hospital, institution, or church in existence at the time of i	initial application. Yes N
atering purposes, or within 1000 horizontal feet	resh water well or spring that less than five households use for of any other fresh water well or spring, in existence at the time ERS database; Visual inspection (certification) of the propose	ne of initial application.
dopted pursuant to NMSA 1978, Section 3-27-3	in a defined municipal fresh water well field covered under a as amended, the municipality; Written approval obtained from the munici	
Vithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identificat	on map; Topographic map; Visual inspection (certification) of	of the proposed site
Vithin the area overlying a subsurface mine. - Written confirmation or verification or m	ap from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ N
Vithin an unstable area. - Engineering measures incorporated into t Society; Topographic map	ne design; NM Bureau of Geology & Mineral Resources; USO	GS; NM Geological Yes N
Vithin a 100-year floodplain FEMA map		☐ Yes ☐ N
y a check mark in the box, that the documents Siting Criteria Compliance Demonstration: Proof of Surface Owner Notice - based upo Construction/Design Plan of Burial Trend Construction/Design Plan of Temporary Pi Protocols and Procedures - based upon the Confirmation Sampling Plan (if applicable Waste Material Sampling Plan - based upo Disposal Facility Name and Permit Number Soil Cover Design - based upon the appropriate Re-vegetation Plan - based upon the appropriate Plan - b	IMAC) Instructions: Each of the following items must be a tre attached. - based upon the appropriate requirements of 19.15.17.10 No. in the appropriate requirements of Subsection F of 19.15.17.1. (if applicable) based upon the appropriate requirements of 19.15.17.1. (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC - based upon the appropriate requirements of Subsection F of the appropriate requirements of Subsection F of 19.15.17.13 re (for liquids, drilling fluids and drill cuttings or in case on-situate requirements of Subsection H of 19.15.17.13 NMAC propriate requirements of Subsection I of 19.15.17.13 NMAC propriate requirements of Subsection G of 19.15.17.13 NMAC propriate requirements of Subsection G of 19.15.17.13 NMAC	MAC 3 NMAC 9.15.17.11 NMAC riate requirements of 19.15.17.11 NMAC of 19.15.17.13 NMAC 3 NMAC te closure standards cannot be achieved)
	Oil Conservation Division	Page 4 of 5

Name (Print): Kim Champlin	Title: Envi	ronmental Representative
Signature: Kim Chample	01/05/0	000
		009 5) 333-3100
e-mail address: kim champlin@xtoenergy.con	m Telephone: (50;	5) 333-3100
oco Approval: X Permit Application (including	ng closure plan)	ons (see attachment)
•	Burdine A	
Title: Environmental Specialist-A	OCD Permit Number:	
Instructions: Operators are required to obtain an The closure report is required to be submitted to t	sure completion): Subsection K of 19.15.17.13 NMAC in approved closure plan prior to implementing any closure the division within 60 days of the completion of the closure in has been obtained and the closure activities have been co	activities. Please do not complete this mpleted.
	☐ Closure Completion	Date:
22. Closure Method: Waste Excavation and Removal On-Site If different from approved plan, please explain	Closure Method	aste Removal (Closed-loop systems only)
Instructions: Please indentify the facility or facility of facilities were utilized.	sure For Closed-loop Systems That Utilize Above Ground lities for where the liquids, drilling fluids and drill cuttings	were disposed. Use attachment if more th
Disposal Facility Name:		ımber:
Disposal Facility Name:	iated activities performed on or in areas that will not be used	for future service and operations?
Yes (If yes, please demonstrate compliance		tot tutute setvice and operations.
Required for impacted areas which will not be used Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seedin		
1		
Closure Report Attachment Checklist: Instructor mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and Proof of Deed Notice (required for on-site of Plot Plan (for on-site closures and temporary Confirmation Sampling Analytical Results (Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seedin Site Reclamation (Photo Documentation)	f. division) closure) y pits) (if applicable) s (required for on-site closure) The control of th	
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Closure Report Attachment Checklist: Instructormark in the box, that the documents are attached. Proof of Closure Notice (surface owner and Proof of Deed Notice (required for on-site of Plot Plan (for on-site closures and temporary Confirmation Sampling Analytical Results (Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seedin Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Description: Inhereby certify that the information and attachmentary in the proof of	division) closure) y pits) (if applicable) s (required for on-site closure) Ing Technique Longitude Ints submitted with this closure report is true, accurate and contail applicable closure requirements and conditions specified	MAD: □1927 □ 1983 mplete to the best of my knowledge and lin the approved closure plan.
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Hatelel-PO fine 1980, Hobbo, NM 88241-1980 District II PD Drawer DD, Artesla, NM 88211-0749 District III 1000 Rio Ilruzus Rd., Aztec, NM 87410 District IV

PO Box 2008, Santa Fc, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

er .	1 Pool Code	* Cool (Name
29416	86720	Ute Dome Dakota	
		² Property Name	4 Well Number
UTE II	NDIANS A		# 26
		* Operator Name	Elevation
AMOC	O PRODUCTION	N COMPANY	6114
	<u>9416</u> UTE II	29416 86720 UTE INDIANS A	29416 86720 Ute Dome Dakota

Surface Location

UL or lot no. Lot 2	Section 1	Township 31 N	Range 14 W	Let Ide	Feet from the 625	North/Snuth line NORTH	Feet from the 2620	EAST	SAN JUAN
	L		" Bot	lom Hol	e Location I	f Different Fre	om Surface	9	
UL or let no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Declicated Acr	Joint	or taftii '' (Consolidatio	a Code 11 C	Prder No.				

NO ÁLLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		DAKD GIALL HV2 B			
16		1320'	1740.42		OPERATOR CERTIFICATION
	(3075':)	$\widetilde{\varphi}$		100 11	hereby certify that the information contained herein is rue and complete to the best of my knowledge and belief
	3073 37		-2620'	GSCSSS W	0
		1		1330	Patty Haefele Patty Haefele Printed Name Staff Assistant Hile 8/7/96
	9-5-101			- 11	"SURVEYOR CERTIFICATION
		ri		,	hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. August 1, 1996
i			1: T):	Į ti	Date of Survey
	32 - 11 3. 73	APS 1 5	(5 		Signature and Solid Processional Appropria

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Lodestar Service	as Inc	Pit Permit	Client: Project:	
		Siting Criteria	Revised:	
PO Bez 4465, Derze	ps, CU 81302	Information	Prepared by:	
V	L	mormation	Prepared by:	Trevor Yeas
API#:	30	0-045-29416	USPLSS:	31N 14W 1 B
Name:	MOUNTAIN (JTE GAS COM C No. 002	Lat/Long:	36.935750°, -108.258160°
Depth to groundwater:	d	epth > 100'	Geologic formation:	Monofoo Formation (Vmf)
Distance to closest continuously flowing watercourse:	3.9 miles	E to 'La Plata River'	site elevation: 1863m/6112'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:		W to 'Barker Arroyo' mittent stream)		
			Soil Type:	Entisol / Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
	NOTE WATER		Annual Precipitation:	Shiprock: 6.90", Fruitland: 7.38", Farmingto (FAA): 8.21"
Domestic fresh water well or spring within 500'		NO	Precipitation Notes:	Historical daily max. precip.: 2.9" (Shiprock)
Any other fresh water well or spring within 1000'		NO		
Within incorporated municipal boundaries		NO	Attached Documents:	31N13W_IWaters.pdf, 31N14W_iWaters.pdf, 31N15W_IWaters.pdf, 32N13W_iWaters.pdf, 32N14W_iwaters.pdf, 32N15W_iwaters.pdf, 33N13W_IWaters.pdf, 33N14W_IWaters.pdf, 33N15W_IWaters.pdf
Within defined municipal fresh water well field		NO		30-045-29416_gEarth-lWaters.jpg, 30-045-29416_gEart PtS.jpg, 30-045-29416_topo-PLS.jpg
Wetland within 500'		NO	Mining Activity:	None Near
Within unstable area		NO		NM_NRD-MMD_MinesMillQuarries_30-045-29416.jpg NM_NRD-MMD_UTE_COALBNDS_prox.jpg
Within 100 year flood plain	unmapped	area: see note below		
Additional Notes:				
rains to ! a Pinto Diver!				Enhanciel our eller u
rains to 'La Plata River'				E above 'Craig Arroyo', SW of 'Coalbank

MOUNTAIN UTE GAS COM C No. 002, 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 below ground tank location will be located in the northwest corner of the San Juan Basin, where the Hogback monocline ends. Thicker sequences common throughout the central basin begin to pinch out and older units of Cretaceous Age are exposed, specifically the Menefee Formation and Cliff House Sandstone (Brister and Hoffman, 2002). The resistant Cliff House sandstones form prominent cliff bands, while shales and smaller sandstones of the Menefee Formation are exposed at lower elevations. The stratigraphic section reflects deposition in a coastal plain environment and consists of gray, brownish and tank sandstone interbedded with dark, carbonaceous shales and coal beds. Also, deposits of Quaternary alluvial and aeolian sands occur prominently near the surface, especially near streams and washes.

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

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

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

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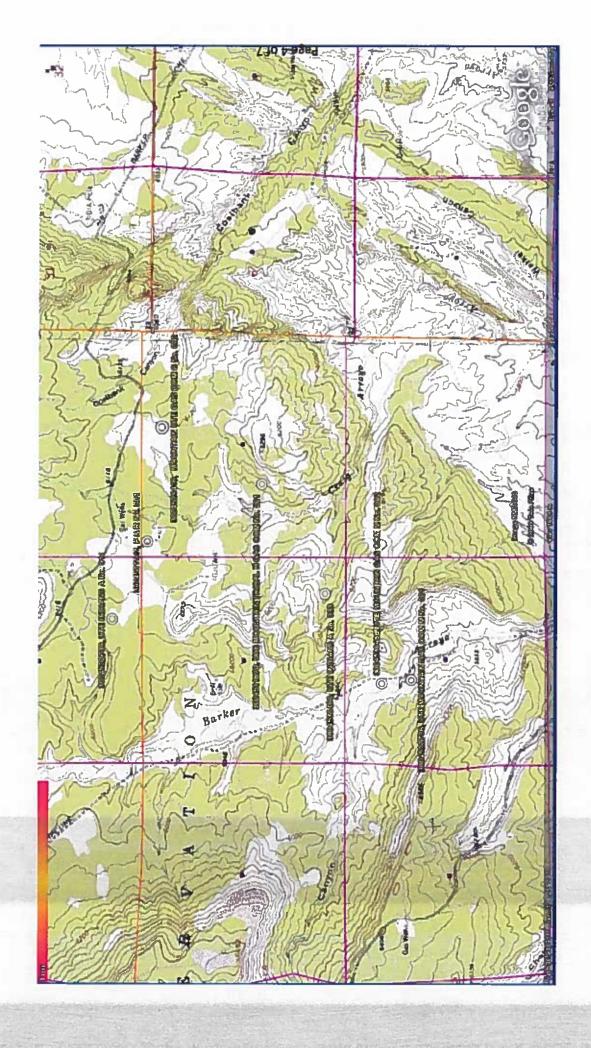
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

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

Local aquifers include sandstones within the Menefee Formation, which range from shallow depths to over 6000 feet deep in this area (Stone et al., 1983). The site in question is located on a gentle slope approximately 5000 feet away from outcropping sandstones that are over 350 feet higher in elevation. The slope is composed of shale and alluvium which, taken together, are expected to be at least 50 feet thick.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is attached. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered near populated areas along the La Plata River east of the proposed site. These sites contain shallow groundwater, but topographic and hydrographic conditions are not representative of the site in question. Rather, the surrounding geology and topography must be used to estimate depth to groundwater. The base of the adjacent Little Barker arroyo is over 250 feet lower in elevation than the proposed site. However, the adjacent Craig Arroyo channel is only 30 feet lower in elevation. Therefore, groundwater is estimated to be over 100' deep.





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Township: 32N Range: 14W		Basin:		face Data Re	이
Township:	.D27 X:		(First)	POD / Sur	
	NA	County:	Owner Name:		

WATER COLUMN REPORT 08/11/2008

Water (in feet) Column Depth Water Depth Well (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Zone Twe Rng Sec q q q POD Number

No Records found, try again

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	Search Radius:	Number:	O Non-Domestic	ter Report Water Column	WATERS Menu Help
Township: 32N Range: 13W Sections:	Y: Zone:	Basin:	(Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form IWATERS
Township: 32N	NAD27 X:	County:	Owner Name: (First)	POD / Surface D	

WATER COLUMN REPORT 08/11/2008

(uarter	s ar	1=1	M	-NE	(quarters are 1=NW 2=NE 3=SW 4=SE)							
(5)	(quarters		bid e	1965	at to	are biggest to smallest)			Depth	Depth	Water	(in feet	Bet
POD Number	Twe	Rng	Sec.	ס	6	Zone	×	×	Well	Water	Column		
SJ 01187 CLW226675	32N	139	10	m	4				24	6	15		
SJ 01187	32N	13W	10	3	1 4				24	O	15		
sJ 01353	32N	13W	10	Z,						38			
SJ 01439	32N	138	10	4	3				45	25	20		
87 02068	32N	13W	15	7					45	91	29		
8J 01549	32N	13W	15	2					47	28	19		
SJ 02985	32N	13W	15	2	7				47	25	22		
sJ 02350	32N	13W	15	7	3 1				26				
3J 02865	32N	13W	15	2	3 2				44	29	15		
87 02558	32N	138	15	m	2 4				41	23	18		
SJ 02934	32N	13W	15	4	1				34	18	16		
SJ 02890	32N	138	15	4	2				55	30	25		
8J 02705	32N	138	22	1	1 2				25	12	13		
8J 02704	32N	138	22	1	1 2				25	12	13		
SJ 03111	32N	138	22	2	4				19	9	13		
SJ 02848	32N	13W	22	2	n 1				608	20	558		
SJ 00922	32N	13W	22	m	6				27	12	15		
8J 00906 X	32N	13W	22	3					98	26	09		
SJ 02918	32N	138	22	3	1 2				51	30	21		
SJ 00736	32N	13W	22	4	2				40	15	25		
SJ 00339	32N	13W	22	4	1 1				50	12	38		
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SJ 00340	32N	13W	22	4	Н	2	50
8J 02847	32N	13W	22	V	4	1	1255
SJ 03123	32N	13W	27	ന	ব	-	30
SJ 03524	32N	13W	27	m	7	1	33
SJ 03525	32N	13W	27	4	m	1	71
SJ 01285	32N	13W	28	m	Н	4	27
sJ 03256	32N	13W	34	Н	7	2	21
SJ 03037	32N	13W	34	-	4	e	100
sJ 03066	32N	13W	34	7	0	2	41
SJ 01079	32N	13W	34	m	m		100
SJ 01943	32N	13W	34	₹,			80
SJ 02901	32N	13W	34	4	2	2	50
SJ 03635	32N	13W	34	Ą	2	4	44
SJ 02577	32N	13W	34	4	乊		30
SJ 03090	32N	13W	35	m	н	1	59
83 02589	32N	13W	35	æ	E	2	09
8J 02783	32N	13W	35	ന	ന	4	62

ast) Number: Suffix: Number: Number: Number: ONon-Domestic Ononestic OAll
(Last) ONon-Domestic ODomestic ©

WATER COLUMN REPORT 08/11/2008

Water (in feet) Column Depth 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

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Township: 31N Range: 14W	X: X:	Basin:	(First) (I	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form
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WATER COLUMN REPORT 08/11/2008

arters a Tws Ru 31N 14	quarters are biggest to smallest) Tws Rng Sec q q q Zone 31N 14W 05	* 0	¥ 2164700	Depth Well	4	Water (in feet) Column
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Record Count: 2

	Search Radius:	Suffix:	ONon-Domestic ODomestic OAll	Vater Column Report
Range: 13W Sections:	Y: Zone: Se	in: Number:	(Last) ONo	POD / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form WATERS Menu Help
Township: 31N Range: 13W	NAD27 X:	County: Basin:	Owner Name: (First)	POD / Surface Da

WATER COLUMN REPORT 08/11/2008

	(quarters are 1=NW 2=NE 3=SW 4=SE	are	1=N	N =	NE	3=SW 4=SE)								
	(quarters	are	big	168	t to	are biggest to smallest)			Depth	Depth	Water	(in	(in feet)	
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SJ 02590	31N 1	13W (114	70	44			
SJ 00835		13W C	32 ;	2					34	19	15			
sJ 03386	• •	13W (33 2	CI.					80	11	69			
SJ 02879		13W (33 2	3	2				30					
SJ 03137		13W (33 2	3	E)				50					
SJ 02990		13W (33 2	8	4				100	22	78			
8J 01295		13W (39 2	T C	-				230	180	50			
8J 02977			09 2	1 2	m				325	124	201			
SJ 02920			09	3	m				85					
8J 02755		_	09 2	6	4				9	40	20			
SJ 02987		13W C	9 60		м				250	87	163			
SJ 03382		13W C	60	3	7				20					
SJ 02717		13W 1	10 1	3					42	22	20			
SJ 01094		13W 1	10 2	61					130	09	7.0			
SJ 00798			10 2	01					125	65	09			
SJ 00089		13W 3	10 2	7	7				80	18	62			
SJ 01952			10 2	4					16	9	10			
SJ 01944		13W 1	01	5 4					20	4	16			
SJ 02276	31N 1	13W 1	01						24	19	S			
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SJ 01950 31N 13W 10 4 1 4 1 21 SJ 02637 31N 13W 15 3 4 4 2 2 2 0 SJ 02048 31N 13W 15 3 2 4 4 0 4 0 SJ 02046 31N 13W 22 3 3 1 104 SJ 03197 31N 13W 22 3 3 1 104 SJ 02197 31N 13W 22 3 3 3 1 104 SJ 02737 31N 13W 22 3 3 3 1 100 SJ 02737 31N 13W 22 3 3 3 1 100 SJ 02737 31N 13W 22 3 3 3 3 1 100 SJ 02753 31N 13W 27 1 1 3 1 3 1 SJ 02753 31N 13W 27 1 1 4 2 4 2 SJ 02754 31N 13W 27 1 1 4 2 4 2 SJ 02754 31N 13W 27 1 1 4 2 4 2 SJ 02764 31N 13W 28 4 2 3 4 4 4 4 4 SJ 02764 31N 13W 28 4 2 3 4 4 4 4 4 4 SJ 02764 31N 13W 28 4 4 3 1 4 4 4 4 4 4 4 4 4 SJ 02764 31N 13W 33 3 1 3 3 1 4										
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	374	31N	13W	33	ന	2		18		9

Record Count: 50

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WATER COLUMN REPORT 08/12/2008

	(quarter	S are	11	王	2	H	3=8	W 4=SE)							
	(quarter	s are	bid '	6	St	\$		allest)			Depth	Depth	Water	(in	feet)
POD Number	TWB	Rug	Sec	ש	0	ש	201	70 ×		×	Well	Water	Column		
SJ 00815 EXPLOR-	2 30N	15W	22	3	m	4					240				
SJ 00815 O-EXPLO	30N	15W	27	P	6	7					231				
SJ 00815 EXPLORE-	-1 30N	15W	27	4	m	1					234				
8J 00815 0	30N	15W	27	4	m	m					231				
SJ 03798 POD1	30N	15W	29	4	N	2		254738	2.1	105417	35	12	23		
SJ 00971 EXPLORE-	2-2 30N	15W	36	Н	4	m	3	NR-2 30N 15W 36 1 4 3 W 342253	2	2100399	524	131	393		
SJ 00971 EXPLORE	-1 30N	15W	36	\vdash	7	3	3	342253	2	00399	532	102	430		
The same of the sa	The objects														

Record Count: 7

NAD27 X: Y: Zone: Search Radius: County: Basin: Suffix:
Basin: Number:
Owner Name: (First) (Last) Owner Onestic Obomestic Ohon-Domestic Ohon-Do
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form IWATERS Men. Help

Water (in feet) Column 56 Depth Water Depth Well 61 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) TWS Rng Sec q q q 30N 14W 03 1 3 POD Number SJ 00944

Record Count: 1

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WATER COLUMN REPORT 08/11/2008

	(quarters	B are	H	3		ň	are law Zane Jask 4#SE)							
	(quarters	S are	bid e	96	biggest to		smallest)			Depth	Depth	Water	(in feet)	Ť.
POD Number	Twa	Rng	300	0	6 6		Zone	×	>1	Well	Water	Column		
RG 22431	30N	13W	30	2						100	45	55		
SJ 01344	30N	13W	01	4	1 2					42	27	15		
SJ 03283	30N	13W	0.5	7	1 2					20	60	12		
SJ 00132	30N	13W	0.5	m	1 4					100	46	54		
SJ 01101	30N	13W	90	Н						41	26	15		
SJ 03326	30N	13W	08	Н	en en					55	30	25		
SJ 00328	30N	131	80	7						33	21	12		
SJ 02268	30N	13W	80	N						30	21	6		
SJ 01463	30N	13W	08	7						52	30	22		
SJ 00877	30N	13W	08	2						09	30	30		
SJ 00293	30N	13%	08	7						50	30	20		
SJ 00855	30N	13W	08	7	_					50	25	25		
SJ 01068	30N	13W	08	N	_					53	28	25		
SJ 02326	30N	13W	08	0	1 3					42	35	7		
SJ 02735	30N	13W	80	N	3 4					43	23	20		
SJ 00587	30N	13W	80	m	2					72	48	24		
SJ 03195	30N	13W	80	4	1					09	35	25		
SJ 03328	30N	13W	80	4	1					09				
SJ 03196	30N	13W	80	4	7					41	20	21		
SJ 03160	30N	13W	80	4	1					09	00	52		
SJ 00374	30N	13W	08	4	CI.						56			

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0.000	2011	1361	0	-	•	7		
SJ 02397	30N	138	080	1 4	J,	31	15	16
SJ 02396	30N	13%	80	4		30	10	20
SJ 02823	30N	13%	80	4	3	40		
SJ 02787	30N	13W	60	Н	3 1	235	140	95
SJ 00818	30N	13₩	60	ر ا	_	130	32	86
SJ 02725	30N	13W	60	6	1	110	100	10
SJ 02647	30N	13%	11	4	3.4	92	58	18
SJ 02943	30N	13W	11	2	2	09		
SJ 03029	30N	13W	17	2	7	65	45	20
SJ 03017	30N	13W	11	2	2	37	20	17
SJ 02574	30N	13W	17	2	4	26	6	17
SJ 01736	30N	13W	26	1	3	332	300	32
SJ 01119	30N	13W	26	1	4	370	300	70
SJ 01454	30N	13%	26	ω	1	400	350	50
SJ 01117	30N	13W	26	ы [1 4	360	300	09
8J 02225	30N	13%	56	(L)	2	339	300	39
SJ 01895	30N	13W	26	63	4	370	250	120
SJ 01181	30N	13W	26	63	3	257	230	27
SJ 01503	BON	13W	26	4	2	310	260	50
SJ 02674	30N	13W	27	3	4	270	250	20
SJ 00992	30N	13W	28	2	-	624	306	318
SJ 00992 CLW303071	30N	13₩	28	7	1	624	306	318
SJ 00868	30N	13W	29	N		49	25	24
sJ 00262	30N	13W	29	7		38	25	13
SJ 01357	30N	13%	29	N	01	71	56	15
SJ 01040	30N	13W	29	7	01	49	20	29
SJ 03046	30N	13%	29	7	2	80	30	20
SJ 01502	30N	13W	29	4		47	20	27
SJ 00448	30N	13W	29	4		45	20	25
8J 00215	30N	13W	29	4	~	52	35	20
SJ 02159	30N	13W	29	4	~	40	15	25
SJ 02754	30N	13W	29	4	4	65	65	
SJ 00467	30N	13W	30	4		36	21	15
SJ 01150	30N	13W	32	1		37	16	21
SJ 00156	30N	13W	32	ന		44	18	26
SJ 00217	30N	13W	32	6		40	10	30
8J 01359	30N	13%	32	(L)	_	25	10	15
SJ 02391	30N	13W	35	1	1	260	200	09
Record Count: 50								

Record Count: 60

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The State Engineer	nd Downloads
Mexico Office of	POD Reports a
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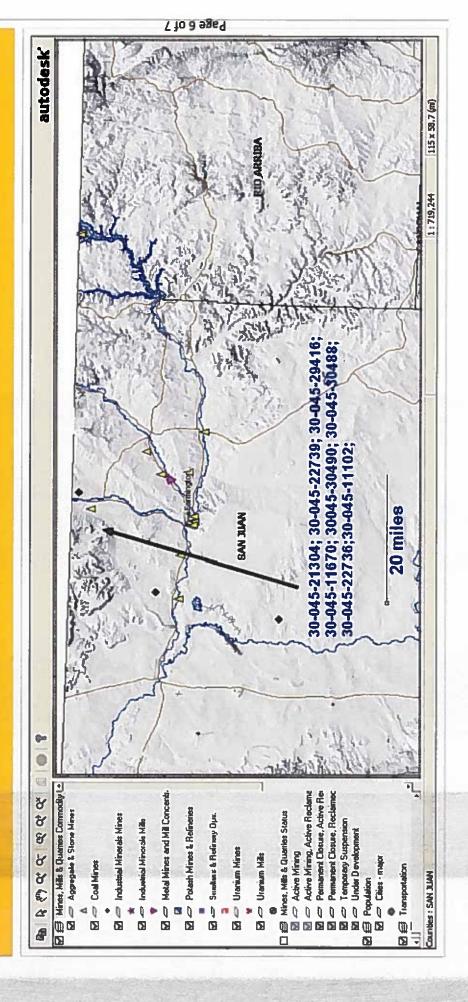
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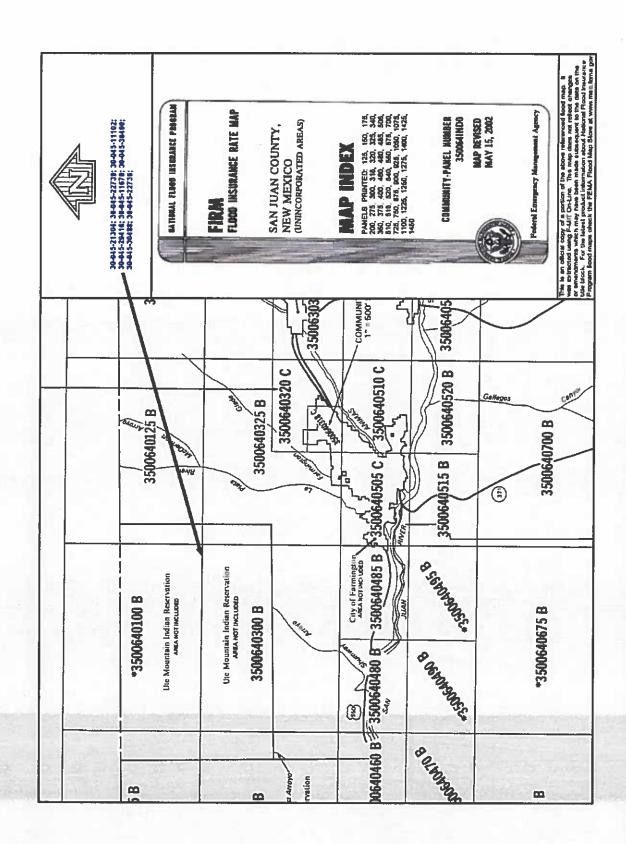
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Mines, Mills and Quarries Web Map





Released to Imaging: 8/15/2022 1:45:25 PM

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.

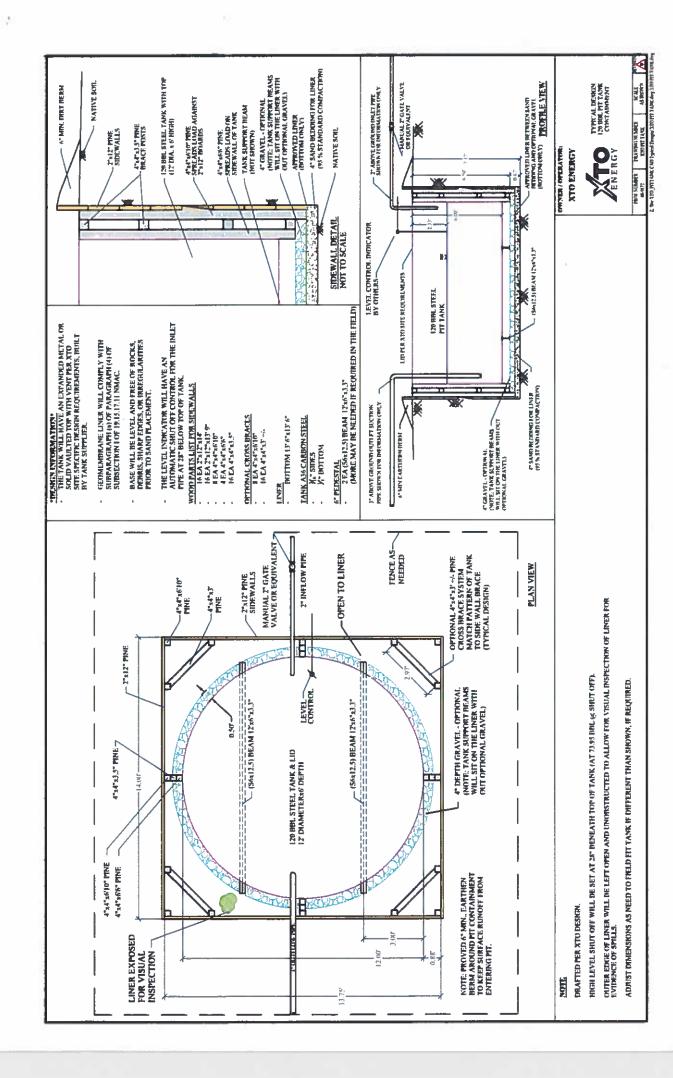
General Plan

- 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 ½ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

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

- 9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).
- 11. The general specifications for design and construction are attached.



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

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 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.
- XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
 - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

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

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

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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.

		MONTE	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	NSPECTIC	N FORM		
Welf Name:					API No.:			
Legals	Sec:		Township:		Range:			
XTO			Any visible		on distribution of			
Inspector's	Inspection	٤	liner	Any visible signs of	surface	Visible layer	Any visible signs	Freeboard
Name	Date	e E	tears (Y/N)	tank overriows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
	¥:							
						m)		1
Notes:	Provide De	Provide Detailed Description:	otion:					
Misc:								

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 2. (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.
- XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade 3. 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.
- XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure 4. 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

- XTO will remove the below-grade tank and dispose of it in a division approved facility or 5. 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.
- XTO will remove any on-site equipment associated with a below-grade tank unless the equipment 6. is required for some other purpose.
- XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. 7. 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

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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);

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viii. Photo documentation of the site reclamation.

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 114863

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114863
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

L	
Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us	identify the appropriate associations in the system.
Facility or Site Name	Mountain Ute Gas Com C 2
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Mountain Ute Gas Com C 2
Well API, if associated with a well	30-045-29416
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	120
Type of Fluid	Produced Water
Pit / Tank Construction Material	Steel
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	True
Tank installed prior to June 18. 2008	True
Other, Visible Notation. Please specify	automatic high level shut off
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

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QUESTIONS, Page 2

Action 114863

QUESTIONS (continued)
	OGRIF

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street Houston, TX 77002	Action Number: 114863
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS	
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	s)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' hogwire
Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	expanded metal or vaulted top
	orpariada motal de radioa top
Signs	
bsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 114863

	QUESTIONS (continued)
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114863
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144] B)

QUESTIONS

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	No
NM Office of the State Engineer - iWATERS database search	True
USGS	Not answered.
Data obtained from nearby wells	Not answered.

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No

oposed Closure Method		
Below-grade Tank	Below Grade Tank - (BGT)	
Waste Excavation and Removal	True	
Alternate Closure Method. Please specify (Variance Required)	Not answered.	

Operator Application Certification	
Registered / Signature Date	01/05/2009

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ACKNOWLEDGMENTS

Action 114863

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114863
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

V	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
V	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

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CONDITIONS

Action 114863

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114863
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created E	y Condition	Condition Date
jburdin	None None	8/15/2022