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

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.

Santa Fe, NM 87505

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

	rtopo	seu Alternative Method re	timi of Closure Flan	Application	
	Type of action: Existing BGT	Permit of a pit, closed-loop syste Closure of a pit, closed-loop syst Modification to an existing perm	em, below-grade tank, or prit	roposed alternative met	hod
	_	Closure plan only submitted for a c, or proposed alternative method			
Instruction	ons: Please submit	one application (Form C-144) per indivi	dual pit, closed-loop system, b	elow-grade tank or alteri	iative request
		quest does not relieve the operator of liabilit the operator of its responsibility to comply v			
Operator: XTC	Energy, Inc.		OGRID #:	5380	

OperatorXTO Energy, tite.	OGRID #	2200
Address: #382 County Road 3100, Aztec, NM 874	110	
Facility or well name:Larcher #2		
API Number: <u>3004521143</u>	OCD Permit Number:	
U/L or Qtr/Qtr _G Section13 Towns	ship <u>31N</u> Range <u>11W</u> County: _	San Juan
Center of Proposed Design: Latitude 36.90111	Longitude <u>107.93826</u>	NAD: □1927 🛛 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Triba	al 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: Thickness	mil	
☐ String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bbl Di	mensions: 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 intent)	Workover or Drilling (Applies to activities which re	equire prior approval of a permit or notice of
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Ha	ul-off Bins	
Lined Unlined Liner type: Thickness	milLLDPE HDPE PVCOth	er
Liner Seams:  Welded Factory Other		
4.		
Below-grade tank: Subsection I of 19.15.17.11 N	MAC	
Volume: 21bbl Type of fluid:	Produced Water	
Tank Construction material: Steel		5
Secondary containment with leak detection   Vis	ible sidewalls, liner, 6-inch lift and automatic overflo	ow shut-off
Visible sidewalls and liner  Visible sidewalls on	ly Other <u>Visible sidewalls, vaulted, automatic</u>	high-level shut off, no liner
Liner type: Thicknessmil	HDPE PVC Other	
725		
Alternative Method:		
Submittal of an exception request is required. Exception	ns must be submitted to the Santa Fe Environmental I	Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	
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)	l, 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)	
s. 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	
9.	
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.	u office for
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 acc	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ Ne
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
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 ⊠ N
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 ⊠ N
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ N
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ N
	☐ Yes ⊠ N
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	[
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> <li>Within a 100-year floodplain.</li> <li>FEMA map</li> </ul>	☐ Yes ⊠ N
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> <li>Within a 100-year floodplain.</li> <li>FEMA map</li> </ul>	☐ Yes ⊠ N
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map  Form C-144  Oil Conservation Division	☐ Yes ⊠ N
Society; Topographic map	

3 0				
Temporary Pits, Emergency Pits				absection B of 19.15.17.9 NMAC
attached.  ☐ Hydrogeologic Report (Belo ☐ Hydrogeologic Data (Tempo ☐ Siting Criteria Compliance I ☐ Design Plan - based upon the ☐ Operating and Maintenance	w-grade Tanks) - based userary and Emergency Pits Demonstrations - based uses appropriate requirement Plan - based upon the app	pon the requirements of Par ) - based upon the requirement from the appropriate requirements of 19.15.17.11 NMAC propriate requirements of 19	ragraph (4) of Subsection control of Paragraph (2) of nents of 19.15.17.10 NM	n B of 19.15.17.9 NMAC Subsection B of 19.15.17.9 NMAC
Previously Approved Design (	attach copy of design)	API Number:	or Pen	mit Number:
attached.  Geologic and Hydrogeologi Siting Criteria Compliance Design Plan - based upon th Operating and Maintenance	ng items must be attache c Data (only for on-site c Demonstrations (only for e appropriate requiremen Plan - based upon the ap	d to the application. Please losure) - based upon the req on-site closure) - based upon ts of 19.15.17.11 NMAC propriate requirements of 19.	e indicate, by a check muirements of Paragraph on the appropriate requires 2.15.17.12 NMAC	
and 19.15.17.13 NMAC	ne boxes 14 inrough 18,	ir applicable) - based upon	ate appropriate requirem	nents of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (		API Number:		
Previously Approved Operation	_			lies only to closed-loop system that use
above ground steel tanks or haul-o	ff bins and propose to im	plement waste removal for	closure)	
Siting Criteria Compliance Climatological Factors Asso Certified Engineering Desig Dike Protection and Structu Leak Detection Design - bas Liner Specifications and Co Quality Control/Quality Ass Operating and Maintenance Freeboard and Overtopping Nuisance or Hazardous Ode Emergency Response Plan Oil Field Waste Stream Cha Monitoring and Inspection I Erosion Control Plan Closure Plan - based upon the	essment In Plans - based upon the In Plans - based upon the Integrity Design - base Integrity Design - base Integrity Design - base Integrity Assessment - Integ	appropriate requirements of upon the appropriate requirements of 19.15.17.11 based upon the appropriate Installation Plan propriate requirements of 19 upon the appropriate requirements of 19 upon the approp	19.15.17.11 NMAC uirements of 19.15.17.11 NMAC NMAC requirements of 19.15.1	I NMAC 7.11 NMAC MAC
Proposed Closure: 19.15.17.13 N	IMAC		2	
Instructions: Please complete the  Type: ☐ Drilling ☐ Workover ☐ Alternative  Proposed Closure Method: ☑ W	☐ Emergency ☐ Cavit	ation P&A Perman	* -	•
☐ Oı	☐ In-place Burial	nly for temporary pits and c  On-site Trench Burial		vironmental Bureau for consideration)
Waste Excavation and Removal closure plan. Please indicate, by  ☐ Protocols and Procedures - I ☐ Confirmation Sampling Plan ☐ Disposal Facility Name and ☐ Soil Backfill and Cover Des ☐ Re-vegetation Plan - based ☐ Site Reclamation Plan - based ☐ Form C-144	a check mark in the box, based upon the appropriat of (if applicable) - based u Permit Number (for liqui ign Specifications - based upon the appropriate requ	that the documents are atte e requirements of 19.15.17. pon the appropriate requirer ds, drilling fluids and drill of I upon the appropriate requirements of Subsection 1 of	nched.  13 NMAC nents of Subsection F of cuttings) rements of Subsection I 19.15.17.13 NMAC	1 of 19.15.17.13 NMAC
Form C-144		Oil Conservation Divi	sion	Page 3 of 5
				*

6				
Waste Removal Closure For Closed-loop Syste Instructions: Please indentify the facility or fact facilities are required.				
Disposal Facility Name:		Disposal Facility Permit Nur	nber:	
Disposal Facility Name:				
Will any of the proposed closed-loop system open  Yes (If yes, please provide the information	rations and associated activities o			
Required for impacted areas which will not be us  Soil Backfill and Cover Design Specificati Re-vegetation Plan - based upon the appro Site Reclamation Plan - based upon the appro	ons based upon the appropriat priate requirements of Subsection	e requirements of Subsection     I of 19.15.17.13 NMAC	H of 19.15.17.13 NMA(	2
17.  Siting Criteria (regarding on-site closure meth Instructions: Each siting criteria requires a den provided below. Requests regarding changes to considered an exception which must be submitted demonstrations of equivalency are required. Plantage of the submitted demonstrations of equivalency are required.	nonstration of compliance in the certain siting criteria may requi ed to the Santa Fe Environmenta	re administrative approval fro A Bureau office for considera	om the appropriate disti	ict office or may be
Ground water is less than 50 feet below the bottom - NM Office of the State Engineer - iWAT		a obtained from nearby wells		Yes No
Ground water is between 50 and 100 feet below to NM Office of the State Engineer - iWAT		a obtained from nearby wells		☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bot - NM Office of the State Engineer - iWAT		a obtained from nearby wells		☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watere lake (measured from the ordinary high-water mar  - Topographic map; Visual inspection (cert	·k).	gnificant watercourse or lakeb	ed, sinkhole, or playa	Yes No
Within 300 feet from a permanent residence, scho - Visual inspection (certification) of the pro-			itial application.	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic watering purposes, or within 1000 horizontal feet - NM Office of the State Engineer - iWAT	of any other fresh water well or	spring, in existence at the time	of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or with adopted pursuant to NMSA 1978, Section 3-27-3.  - Written confirmation or verification from	, as amended.			Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identificat	ion map; Topographic map; Visu	al inspection (certification) of	the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or m	ap from the NM EMNRD-Minin	g and Mineral Division		Yes No
Within an unstable area.  - Engineering measures incorporated into t Society; Topographic map	he design; NM Bureau of Geolog	y & Mineral Resources; USG	S; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map				☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 In the box, that the documents of the box of the box, that the documents of the box of the box of the box, that the documents of the box of th	are attached.  s - based upon the appropriate recon the appropriate requirements of the applicable based upon the act (for in-place burial of a drying pappropriate requirements of 19.1) - based upon the appropriate recon the appropriate requirements of the appropriate requirements of the appropriate requirements of the appropriate requirements of subsection priate requirements of Subsection priate requirements of Subsection	puirements of 19.15.17.10 NM f Subsection F of 19.15.17.13 ppropriate requirements of 19.20d) - based upon the appropri 5.17.13 NMAC puirements of Subsection F of Subsection F of 19.15.17.13 ldrill cuttings or in case on-site H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	AC NMAC 15.17.11 NMAC ate requirements of 19.1 19.15.17.13 NMAC NMAC	21 2:52:3 PM
Received by OCD	Oil Conservation	Division	Page 4 of	eleased to Imag

19.		
Operator Application Certification:  I hereby certify that the information submitted with this appli	igntion is true accurate and complete to the bos	of my knowledge and helief
	•	· · · · · · · · · · · · · · · · · · ·
Name (Print): Kim Champlin	Title: <u>En</u>	vironmental Representative
Signature: Kim Champlin	Date;11/19	/2008
e-mail address: <u>kim_champlin@xtoenergy.com</u>	Telephone:(5	05) 333-3100
20.  OCD Approval:  Permit Application (including closure p	olan)	itions (see attachment)
OCD Representative Signature:CRWhitehe		Approval Date: September 8, 2021
Title: Environmental Specialist	OCD Permit Number:	DOT 4
21.		
Closure Report (required within 60 days of closure comple Instructions: Operators are required to obtain an approved The closure report is required to be submitted to the division section of the form until an approved closure plan has been	closure plan prior to implementing any closur within 60 days of the completion of the closur obtained and the closure activities have been o	re activities. Please do not complete this completed.
	Closure Completion	n Date:
22.  Closure Method:  Waste Excavation and Removal On-Site Closure Model of the Closure of the Clos	ethod	Waste Removal (Closed-loop systems only)
23.  Closure Report Regarding Waste Removal Closure For Cl  Instructions: Please indentify the facility or facilities for wh  two facilities were utilized.		
Disposal Facility Name:	Disposal Facility Permit	Number:
		Number:
Were the closed-loop system operations and associated activit  Yes (If yes, please demonstrate compliance to the items	ties performed on or in areas that will not be use	
Required for impacted areas which will not be used for future  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	service and operations:	
Closure Report Attachment Checklist: Instructions: Each 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 applicabl Waste Material Sampling Analytical Results (required in Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude	le) for on-site closure) ne	e closure report. Please indicate, by a check  NAD:   1927   1983
25.		
Operator Closure Certification: I hereby certify that the information and attachments submitte belief. I also certify that the closure complies with all applications.		complete to the best of my knowledge and ed in the approved closure plan.
Name (Print):	Title:	
Signature:		
e-mail address:		
Form C-144	Oil Conservation Division	Page 5 of 5

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## MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

		All distances mus	t be from the outer	boundaries of th	e Section		
Operator	W. P. CARR		Lease	ARCHER		Well No	-
Unit Lette	Section	Township	Range	Cour			
<b>G</b> Actual Factage L	Location of Well:	31 NORTI	1 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WEST	SAN JUAN	114 (10)	15 10
1720	feet from the	NORTH line	.n. 1725	feet from	n the EAST	line	=20 0
Ground Lovel En		formation ED CLIFFS	Blane	PICTURED	CLIF'S EXT.	Dedkland Avereuge 158-8 160	Aires
-		ed to the subject well					
Cutaine in	ne accrage acorean	to the subject then	01 00:0:0:0 1:0(,0)		12A-788		
2 If more sinterest and		ledicated to the wel	l, outline each a	nd identify th	na lownership thered	of (both as to w	orking
3 If more (	than one lease of c tization, unitizatio	lifferent ownership is n, force-pooling, etc	s dedicated to the	well, nave t	he interests of all c	owners been consol	idated
(🛣 ) Yes	( ) No If	answer is "yes," typ	ge of consolidat®	emmiloitiza	tion	Dagoors (1930) in responsively hadel PAISI TAGES	14415-110000-6
	"no," list the owne	ers and tract descrip	tions which have	actually cons	olidateri (Use reve	erse side of this f	orm if
No allowable pooling, or o	e will be assigned to therwise) or until o	the well until all in non standard unit,	terests have been climinating such	consolidated interests, has	tby communitizat heen approved by t	ion, unitization, f the Commission.	orced-

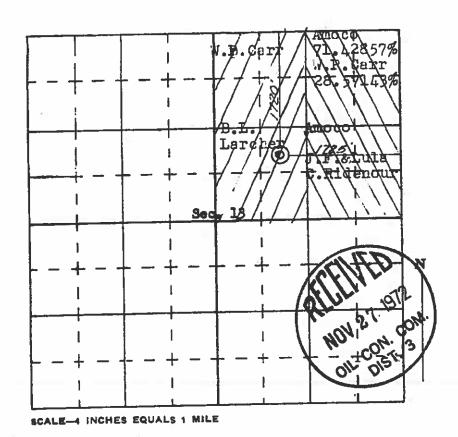
## CERTIFICATION

I heraby certify that the information contained herein is true and complete to the best of my knowledge and belief.

25/00			
Name			
Position	Agent		-
Wa Pa C	aer		181
3 N	ovember, 1	.972	
Date			•

I 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 an knowledge and belief.  3 Horamber.  Dre Streeyed:			1 2:52:33 PM
Registered Professional and/or Land Surveyor JAMES P. LEI			ıg: 9/8/202
1463			- Isi
Certificate No.	46	**	d to Ima
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SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

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Lodestar Service P0 Box 4465, Durang	•	Pit Permit Siting Criteria Information Shee		XTO Energy Pit Permits 15-Oct-08 Brooke Herb
API#:		3004521143	USPLSS:	T31N,R11W,S13G
Name:		LARCHER #2	Lat/Long:	36.90111, -107.93826
Depth to groundwater:		50' - 100'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:		W of the Animas River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	1750' E ( 1050' N	of Kiffen Canyon wash; E of man-made pond; Stacy Irrigation Ditch		
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
			Annual Precipitation:	9.77 inches (Aztec)
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
Within defined municipal fresh water well field		No		Aerial Photo, Topo Map, Mines Mills and Quarries Map
Wetland within 500'		No	Mining Activity:	
Within unstable area		No		5.26 miles NE of Aztec Gypsum Prospect
Within 100 year flood plain	No - F	EMA Flood Zone 'X'		
Additional Notes:				

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## LARCHER #2 Below Ground Tank Siting Criteria and Closure Plan

### **Well Site Location**

Legals: T31N, R11W, Section 13, Quarter Section G Latitude/Longitude: approximately 36.90111, -107.93826

County: San Juan County, NM

General Description: near Animas River

## 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 on the flanks of the Farmington Glade between Aztec and La Plata, New Mexico. Within the Farmington Glade, the Tertiary Nacimiento Formation is exposed, along with Quaternary alluvial and aeoloian sands surrounding the center of the wash.

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

The prominent soil type at the proposed site is entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes soils that cover the area.

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

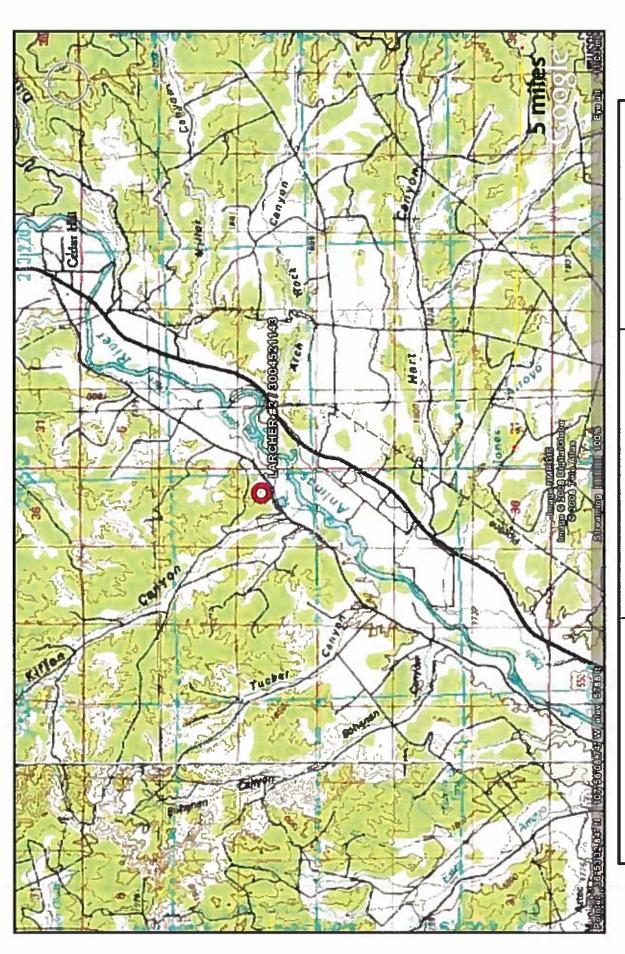
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

## Site Specific Hydrogeology

Depth to groundwater is estimated to be between 50 feet and 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.

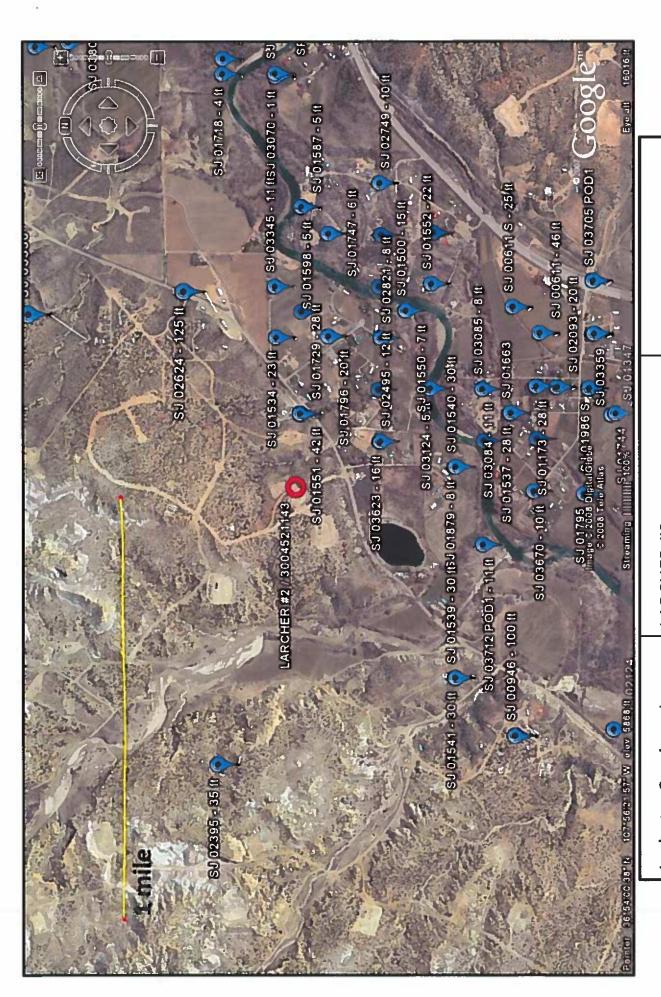
Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 1980 feet to the northwest of the Animas River, and is approximately 140 feet higher in elevation (Google Earth).

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered to the east of the proposed site along the Animas River. Wells near the proposed site range in groundwater depth from 5 feet to 125 feet below ground surface. A cluster of four wells is approximately 1000 feet to the southeast of the proposed site, and is about 80 feet lower in elevation (Google Earth). Depth to groundwater within the wells ranges from 7 feet to 42 feet below ground surface. A group of three wells to the south-southeast is approximately 135 feet lower in elevation then the proposed site. Depth to groundwater within the wells ranges from 6 to 16 feet below ground surface.



San Juan County, NM T31N, R11W, S13G LARCHER #2 Lodestar Services, Inc Durango, CO 81302 PO Box 4465

Topographic Map



San Juan County, NM T31N, R11W, S13G LARCHER #2 Lodestar Services, Inc Durango, CO 81302 PO Box 4465

iWaters Groundwater Data Map

## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 311/Range: 111/ Sections: 13.23.24

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

## WATER COLUMN REPORT 10/15/2008

<u>Б</u> )	uarters	are	H	Į.	=X=2	quarters are 1=NW 2=NE 3=SW 4=SE)								
5	uarters	are	bic	ge	st to	quarters are biggest to smallest)			Depth	Depth	Water	(in	(in feet)	
POD Number	Tws	Rag	Sec	6	4	Zone	×	>1	Well	Water	Column			
SJ 02395	313	N.	(9 (-1	-1	8				(I)	(A)	ψ			
SJ 01551	31%	211	(*) 1	ci					er Vo	다	eq eq			
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## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31h Range: 10V Sections: 7.8.17.18.19

POD / Surface Data Report Avg Depth to Water Report Water Column Report

## WATER COLUMN REPORT 10/15/2008

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## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31/Range: 111/ Sections; 13.23.24

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

## WATER COLUMN REPORT 10/15/2008

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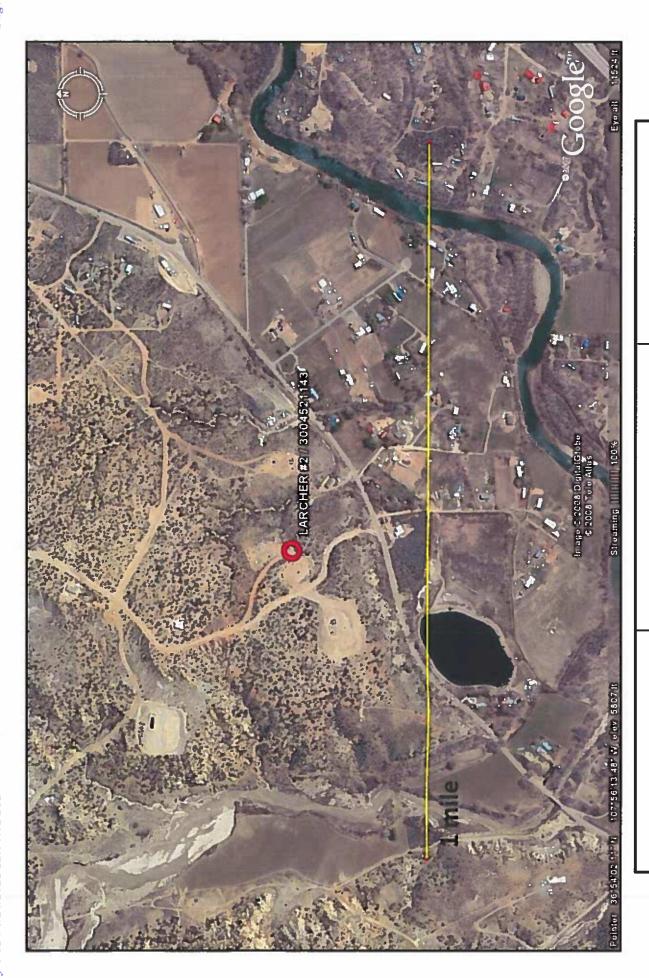
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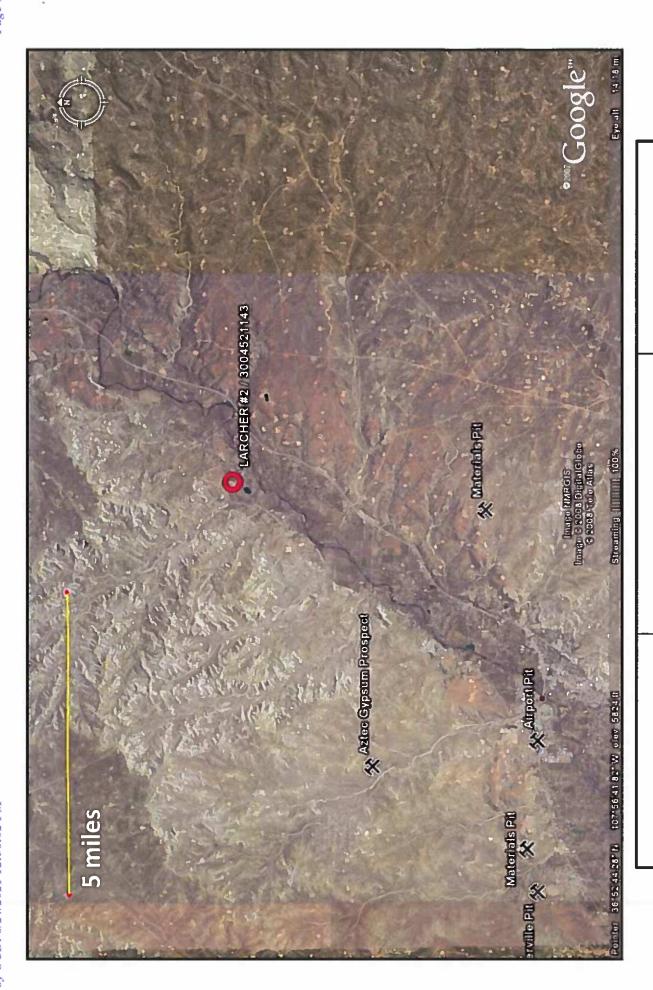
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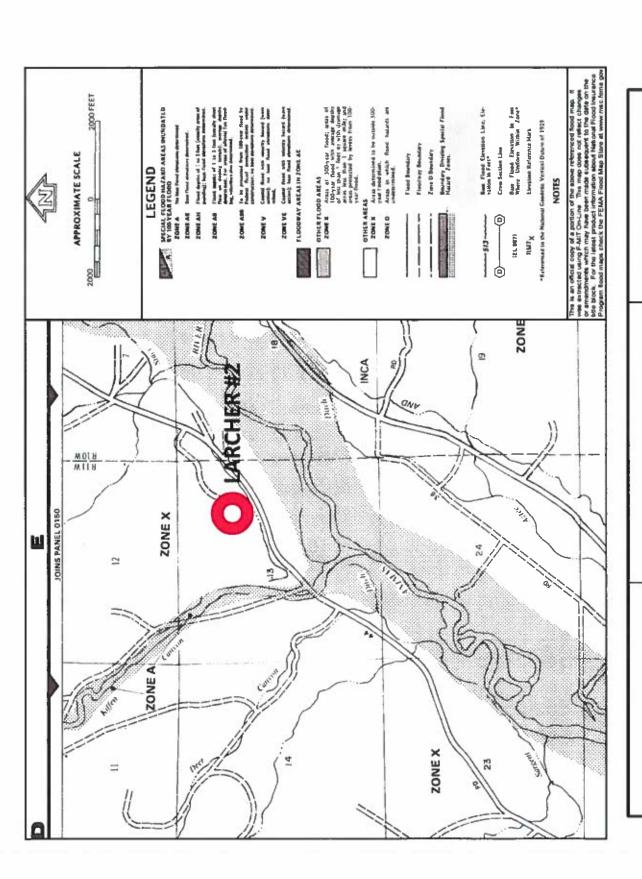
Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
San Juan County, NM

Aerial Photograph



Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
San Juan County, NM

Mines, Mills, and Quarries Map



San Juan County, NM T31N, R11W, S13G LARCHER #2 Lodestar Services, Inc Durango, CO 81302 PO Box 4465

**FEMA Flood Zone 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

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and \( \frac{1}{2} \)" 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

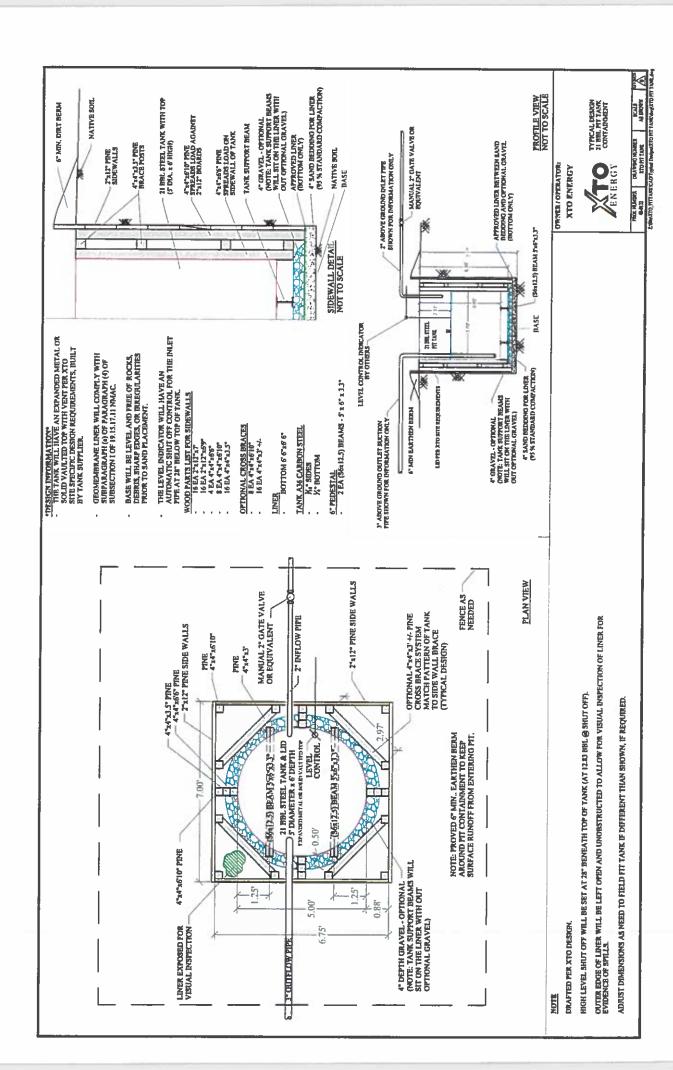
XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

> 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 Lof 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).

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



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

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

## General Plan

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

Well Name API#

Sec., Twn., Rng.

XTO Inspector's name

Inspection date and time

Visible tears in liner

Visible signs of tank overflow

Collection of surface run on

Visible layer of oil

Visible signs of tank leak

Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- 6. XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 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.

	2	MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTION	N FORM		
Well Name:	*(C)				API No.:			
Legals	Sec:		Township:		Range:			-
XTO	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible laver	Any visible signs	Freeboard
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (fl)
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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

- 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.
- XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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

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

- If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116
   NMAC and 19.15.1.19NMAC as appropriate.
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
  - Operator's name

i.

- 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

- 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:
  - 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;
  - 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.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 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 44112

## **QUESTIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	44112
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us i	dentify the appropriate associations in the system.
Facility or Site Name	Not answered.
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Not answered.
Well API, if associated with a well	Not answered.
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)	Not answered.
Type of Fluid	Not answered.
Pit / Tank Construction Material	Not answered.
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	Not answered.
Tank installed prior to June 18. 2008	Not answered.
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

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)	Not answered.

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)	Not answered.	

## Signs

Subsection 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	Not answered.

Variances and Exceptions	
Justifications and/or demonstrations ofequivalency 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:	
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.

## 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	Not answered.	
NM Office of the State Engineer - iWATERS database search	Not answered.	
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)	Not answered.	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.	

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

Operator Application Certification	
Registered / Signature Date	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

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

**District IV** 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** 

ACKNOWLEDGMENTS

Action 44112

## **ACKNOWLEDGMENTS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	44112
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### **ACKNOWLEDGMENTS**

14	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.
₩.	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 44112

## **CONDITIONS**

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	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### CONDITIONS

	Created By	Condition	Condition Date
I	cwhitehead	None	9/8/2021