State of New Mexico **Energy Minerals and Natural Resources** Department

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

Form C-144 July 21, 2001

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

2000 MIN 24 GM 11 26
Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Existing BGT Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method 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 ordinance
t. Operator: <u>XTO Energy, Inc.</u> OGRID #:
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name:FEE #12C
API Number:30@45-32042 OCD Permit Number:
U/L or Qtr/Qtr _J Section 12 Township 30N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.82639 Longitude 108.045 NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx Wx D
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water

Volume: <u>120</u> bbl Type	of fluid: Produced Water	
Tank Construction material: Steel		
Secondary containment with leak detection	n Visible sidewalls, liner, 6-inch lift and automatic over	flow shut-off
☐ Visible sidewalls and liner ☐ Visible s	dewalls only 🛛 Other <u>Visible sidewalls, vaulted, automat</u>	ic high-level shut off, no liner
Liner type: Thickness		
ē.		
Alternative Method:		
Submittal of an exception request is required.	Exceptions must be submitted to the Santa Fe Environmenta	l Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

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, schoinstitution or church)	ool, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	<u></u>
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☑ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureconsideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	au office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of a material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the ap office 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 a above-grade tanks associated with a closed-loop system.	propriate district of 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 ☒ N
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 ⊠ N
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 🖾 N
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 N
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 🖾 1
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🛛 N
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes 🖾 N
Within a 100-year floodplain FEMA map	☐ Yes ☒ N

III. Temporary Pits, Emergency Pits, and Below-ge Instructions: Each of the following items must be attached. Hydrogeologic Report (Below-grade Tanks) Hydrogeologic Data (Temporary and Emerge Siting Criteria Compliance Demonstrations) Design Plan - based upon the appropriate re Operating and Maintenance Plan - based up Closure Plan (Please complete Boxes 14 thr and 19.15.17.13 NMAC	be attached) - based up gency Pits) - based up equirements bon the app	pon the requirements of Parag - based upon the requirement on the appropriate requirement s of 19.15.17.11 NMAC ropriate requirements of 19.15	raph (4) of Subsoft Paragraph ts of 19.15.17.	seck mark in the box, that the documents are osection B of 19.15.17.9 NMAC (2) of Subsection B of 19.15.17.9 NMAC 10 NMAC
Previously Approved Design (attach copy of o	design)	API Number:	0	or Permit Number:
and 19.15.17.13 NMAC ☐ Previously Approved Design (attach copy of comparison of the copy of copy of the copy of copy of the copy of copy of copy of the copy of copy of the copy of copy of the copy of copy of copy of the copy of co	to on-site cless (only for equirement pon the appropriate last), it is a clession of the cless	osure) - based upon the requirements of 19.15.17.11 NMAC propriate requirements of 19.15.15.15.15.15.15.15.15.15.15.15.15.15.	ements of Para he appropriate 5.17.12 NMAC appropriate rec	graph (3) of Subsection B of 19.15.17.9 requirements of 19.15.17.10 NMAC quirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Operating and Maintena above ground steel tanks or haul-off bins and proj				(Applies only to closed-loop system that use
Hydrogeologic Report - based upon the req Siting Criteria Compliance Demonstrations Climatological Factors Assessment Certified Engineering Design Plans - based Dike Protection and Structural Integrity De Leak Detection Design - based upon the ap Liner Specifications and Compatibility Ass Quality Control/Quality Assurance Constru Operating and Maintenance Plan - based up Freeboard and Overtopping Prevention Plan Nuisance or Hazardous Odors, including Hy Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate r	s - based up l upon the a sign - base propriate re- sessment - l action and l pon the app n - based u ₂ S, Prevent	poon the appropriate requirements of 19 d upon the appropriate requirements of 19 d upon the appropriate requirements of 19.15.17.11 N passed upon the appropriate requirements of 19.15 appropriate requirements of 19.15 pon the appropriate requirements of 19.15 pon the appropriate requirements of Plan	ats of 19.15.17. 15.17.11 NM. ments of 19.15 MAC uirements of 1 5.17.12 NMAC nts of 19.15.17	.10 NMAC AC 5.17.11 NMAC 9.15.17.11 NMAC 2 7.11 NMAC
☐ In-pla	Cavita n and Remo (Closed-loc Method (On Ince Burial Ince Method Checklist: In the box, if appropriate Ince based up Ince for liquid Income based	tion P&A Permanent oval op systems only) ally for temporary pits and close On-site Trench Burial (Exceptions must be submitted (19.15.17.13 NMAC) Instruct that the documents are attach the requirements of 19.15.17.13 on the appropriate requirements, drilling fluids and drill cutt upon the appropriate requirements of Subsection I of 19. quirements of Subsection G of	Pit Below ed-loop system d to the Santa I tions: Each op ed. NMAC tts of Subsection ings) nents of Subsection 15.17.13 NMA 19.15.17.13 N	Fe Environmental Bureau for consideration) f the following items must be attached to the on F of 19.15.17.13 NMAC ction H of 19.15.17.13 NMAC
rorn C-144		Oil Conservation Division	1	Page 3 of 5

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6 4 of		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S Instructions: Please indentify the facility or facilities for the disposal of liquids, a facilities are required.		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occ ☐ Yes (If yes, please provide the information below) ☐ No		ice and operations
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	:
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the control provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	e administrative approval from the appropriate distr Bureau office for consideration of approval. Justif	ict office or may b
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	· I	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ificant watercourse or lakebed, sinkhole, or playa	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church Visual inspection (certification) of the proposed site; Aerial photo; Satellite	in existence at the time of initial application. image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp - NM Office of the State Engineer - iWATERS database; Visual inspection (c	oring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approva	.	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual	I inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining	and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	following items must be attached to the closure pla	n. Please indicate
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Inconstruction/Design Plan of Temporary Pit (for in-place burial of a drying pa Protocols and Procedures - based upon the appropriate requirements of 19.15. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Significant Disposal Facility Name and Permit Number (for liquids, drilling fluids and draw Soil Cover Design - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requirements of Subsection In Site Reclamation Plan - based upon the appropriate requireme	Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.15.17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC subsection F of 19.15.17.13 NMAC dill cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	022 2.4
Form C-144 Oil Conservation E	Division Page 4 of	2 of the spale
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Operator Application Certification: I hereby certify that the information submitted with this a	application is true, accurate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin		
e-mail address: kim_champlin@xtoenergy.com		
		(303) 333-3100
OCD Approval: Permit Application (including closs	ure plan) 🗌 Closure Plan (only) 🔲 OCI	D Conditions (see attachment)
OCD Representative Signature: Shelly Wells		Approval Date: <u>9/19/2022</u>
Title: _Environmental Specialist-A	OCD Permit Nun	nber: Legacy BGT1
21. Closure Report (required within 60 days of closure con Instructions: Operators are required to obtain an appro The closure report is required to be submitted to the divisection of the form until an approved closure plan has be	oved closure plan prior to implementing any ision within 60 days of the completion of the een obtained and the closure activities have	oclosure activities and submitting the closure report. e closure activities. Please do not complete this
22.		pretton pate.
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closur ☐ If different from approved plan, please explain.	re Method Alternative Closure Method	d Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Instructions: Please indentify the facility or facilities for two facilities were utilized.</u>	or Closed-loop Systems That Utilize Above or where the liquids, drilling fluids and drill	e Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more tha
Disposal Facility Name:	Disposal Facility I	Permit Number:
Disposal Facility Name:		Permit Number:
Were the closed-loop system operations and associated ac Yes (If yes, please demonstrate compliance to the i	ctivities performed on or in areas that will no items below) \(\subseteq\) No	t be used for future service and operations?
Required for impacted areas which will not be used for fu Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Tech	ture service and operations:	
Closure Report Attachment Checklist: Instructions: In 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 appliment Waste Material Sampling Analytical Results (requiment Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technology Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	icable) ired for on-site closure) nique	nd to the closure report. Please indicate, by a check NAD: 1927 1983
25. Operator Closure Certification: I hereby certify that the information and attachments subm	nitted with this closure report is true, accurat	te and complete to the best of my knowledge and
belief. I also certify that the closure complies with all app	plicable closure requirements and conditions	specified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
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Form C-144	Oil Conservation Division	Page 5 of 5
		Relea

DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco

Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

ISTRICT IV 040 South Pached	co, Santa Fe	, NM 87505			Santa Fe, NM	87505] AMENI	DED REPORT
		٧	VELL L	OCATION	AND ACI	REAGE DEDI				
30-04	Number 5-3	32042	772	Pool Code	B.	ano Ma	Pool Nam	1		
Property Co					⁶ Property No				* Wel	il Number 📑
322	84		13		FEE					12C
OGRID No.					*Operator N	ome			1 '	Devation
16700	04				XTO ENERGY	r INC.				5698'
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We		County
J	12	30-N	12-W		2485	SOUTH	1355	EA	ST	SAN JUAN
			11 Bott	om Hole	Location I	f Different Fr		6		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eqst/We	est line	County
^{is} Dedicated Acres	•	1	u Joint or l	nfil	¹⁴ Consolidation Co	ide	¹⁰ Order No.			
320	2/3	2	i			31				
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W T THE WE 88 2 600 1 DE\$ 2003 36'49'35" N. (NAD 27) QTR. CORNER 108'02'42" W FD 3 1/4" BC Bb 1969 LONG: SURVEYOR CERTIFICATION t hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by LOT 1 714-50 2638.0° Released to Imaging: 9/19/2022 2:57:46 PM 2485 Received by QCD: 9/15/2022 5:54:40 AM Z SEC_CORNER FROM W.C. 2 1/2" AC 16.5" WEST 14827 QTR. CORNER FD 2" ALCAP LS 11598 89-54-26 W Cartificate Number 2573.9

Received by OCD: 9/15/2022 5:54:40 AM

A	_	m1. m 1.	Client:	XTO Energy
Lodestar Servic	es, Inc.	Pit Permit	Project:	Pit Permits
PO Box 4465, Duran	•	Siting Criteria	Revised:	29-Sep-08
V		Information Shee	t Prepared by:	Brooke Herb
API#:		3004532042	USPLSS:	T30N,R12W,S12J
		TTT 400		25 22522 422 245
Name:		FEE # 12C	Lat/Long:	36.82639, -108.045
Depth to groundwater:		50' to 100'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	1.13 mile	es N-NW of the Animas River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	2040' E of	f Barton Arroyo; 1390' N f Farmers Ditch		
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
	action of		Annual	9.77 inches (Aztec)
Domestic fresh water well or spring within 500'		No	Precipitation: Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries Within defined		No	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
municipal fresh water well field		No		Aerial Photo, Topo Map, Mines Mills and Quarries Map
Wetland within 500'		No	Mining Activity:	74517 634 3 3 4 5 5
Within unstable area		No		715' S of Materials Pit
Within 100 year flood plain	IN∩-F	FEMA Flood Zone 'X'		
Additional Notes:			2 0-€1	

Released to Imaging: 9/19/2022 2:57:46 PM

FEE #12C Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T30N, R12W, Section 12, Quarter Section J Latitude/Longitude: approximately 36.82639, -108.045

County: San Juan County, NM General Description: near Glade Run

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).

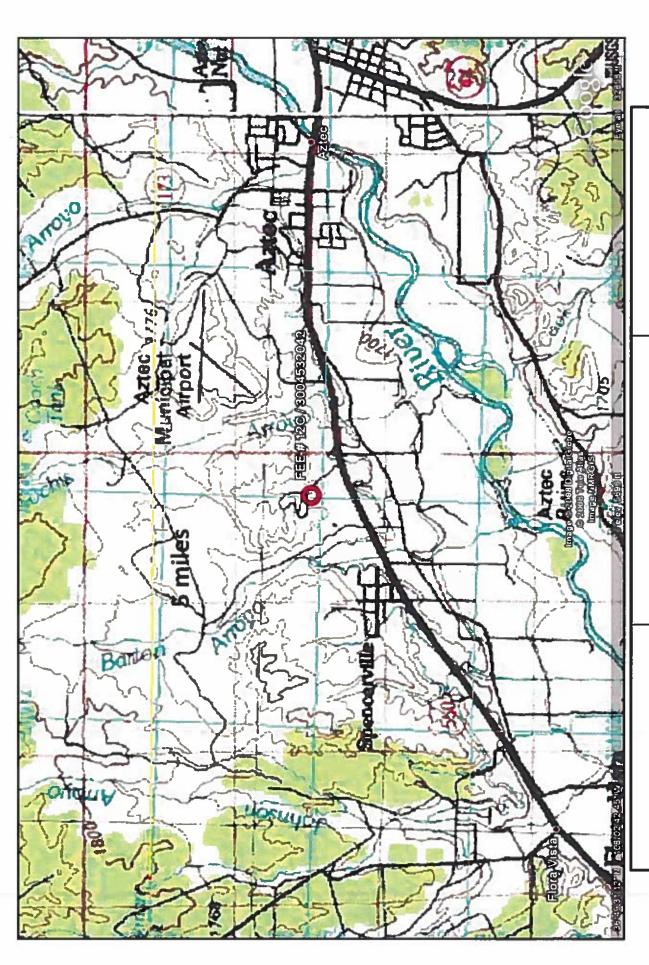
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

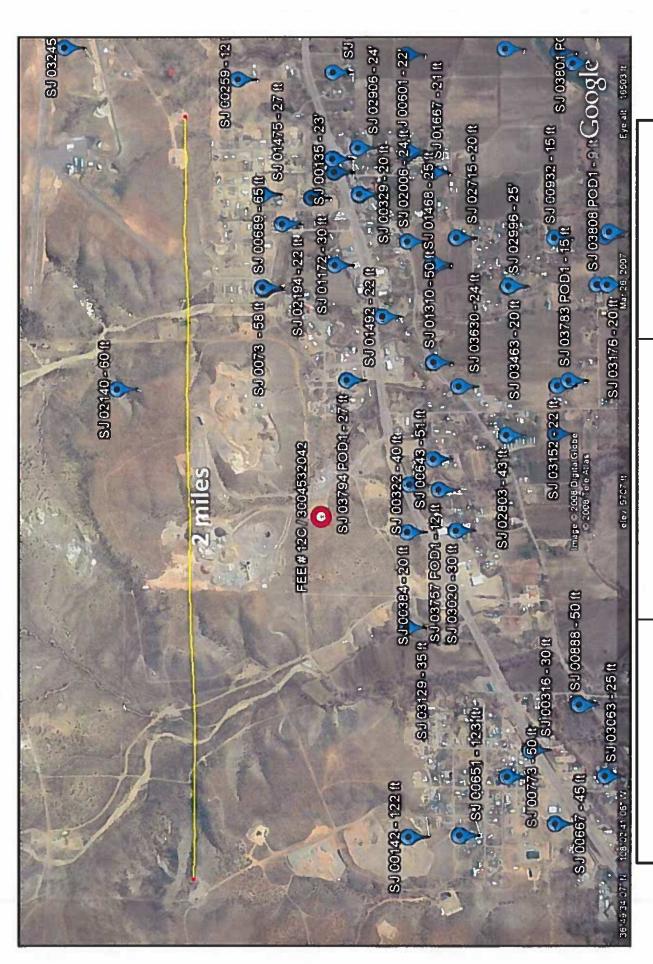
Depth to groundwater is estimated to be between 50 and 100 feet. This estimation is based on data from Stone and others, 1983 and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken 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. However, the proposed site is situated over a mile to the north-northwest of the Animas River, and is approximately 170 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 near populated areas to the south of the site. Depth to groundwater within the wells ranges from 12 to 123 feet below ground surface. The closest well to the proposed site is located 1435 feet to the south, and is 30 feet lower in topographic elevation. Depth to groundwater within the well is 20 feet. A well to the southeast has a depth to groundwater of 27 feet below ground surface. This well is approximately 25 feet lower in elevation then the proposed site. A well to the south has a depth to groundwater of 12 feet, and is approximately 65 feet lower in elevation then the proposed site.



Topographic Map San Juan County, NM FEE #12C T30N, R12W, S12J Lodestar Services, Inc Durango, CO 81302 PO Box 4465



San Juan County, NM T30N, R12W, S12J FEE #12C Lodestar Services, Inc Durango, CO 81302 PO Box 4465

iWaters Groundwater Data Map

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New Mexico Office of the State Engineer POD Reports and Downloads

Township: 304 Range: 124 Sections: 10,11,12,13,14,15

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/18/2008

	(quarters		1	E	=N=	are 1=NW 2=NE 3=SW 4=SE)							
	(quarters	are	biggest	ges	it to	o smallest)			Depth	Depth	Water	E E	(in feet)
POD Number			Sec			Zone	×	≯	Well	Water	Column		
SJ 03767 POD1	305			चा Cl	c 1	10.00	E1E 19	1333	w	(1 ()	60 1		
SJ 02128	Nos		i i	(L)						0.00	<u>0</u>		
SJ 00945	300		음	u)					130	0.0	0		
SJ 00421	3.0M	5	0.0	4.h					136	(1) 51°	(A)		
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Record Count: 111

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30h Range: 11v Sections: 7

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/29/2008

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Record Count: 49

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30h Range: 110 Sections: 18

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/29/2008

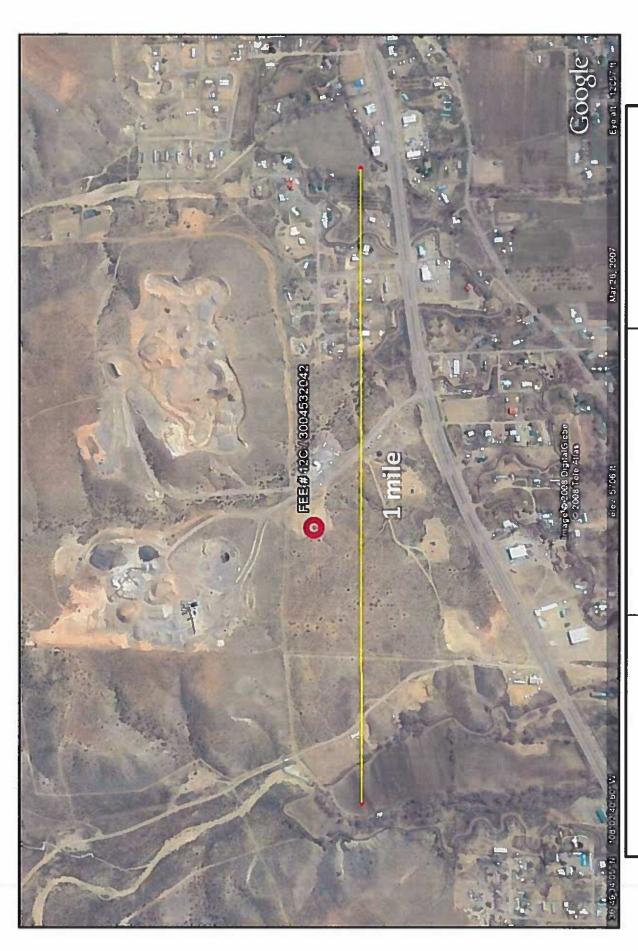
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Record Count: 26

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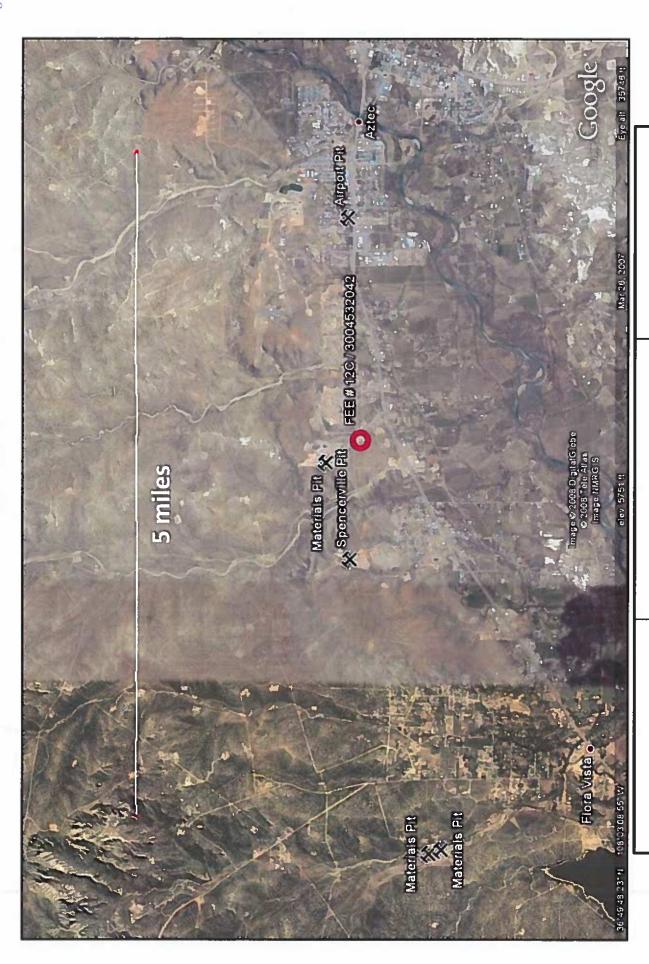
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Aerial Photograph

Lodestar Services, Inc PO Box 4465 Durango, CO 81302

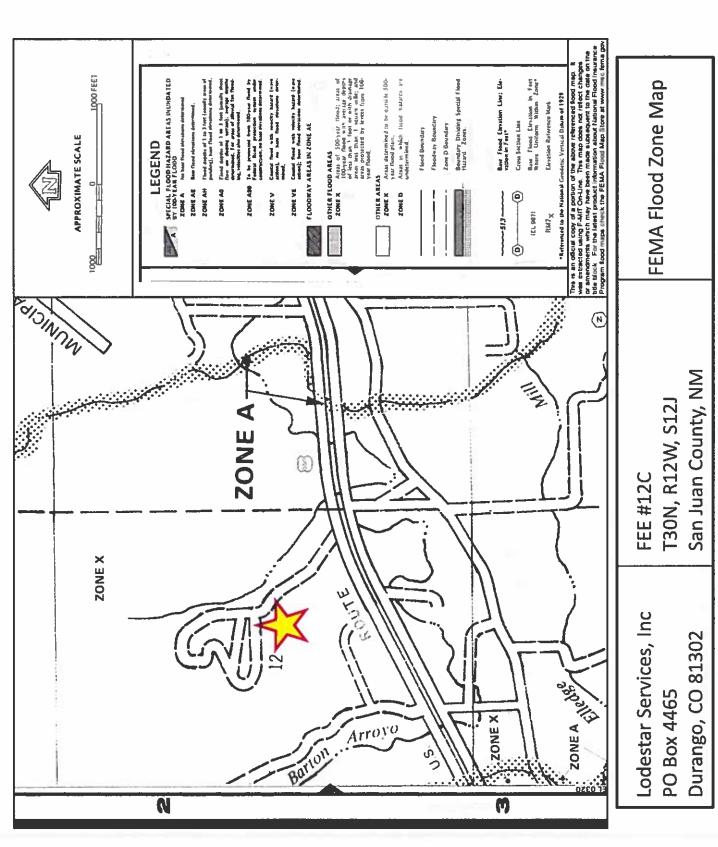
FEE #12C T30N, R12W, S12J San Juan County, NM



Lodestar Services, Inc PO Box 4465 Durango, CO 81302

FEE #12C T30N, R12W, S12J San Juan County, NM

Mines, Mills, and Quarries 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 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 \(\frac{1}{2} \) 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

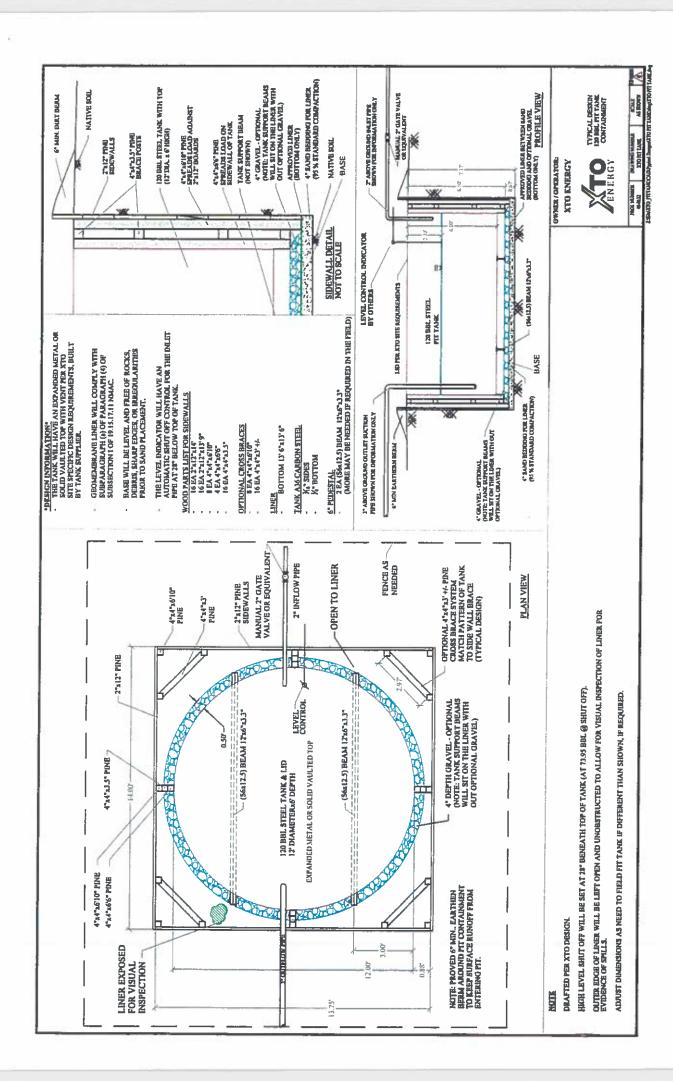
XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Design and Construction Plan
For Below-Grade Tanks
Page 2

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).

- 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).

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



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

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

General Plan

- 1. XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- 2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.
- 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,

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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.

		MONT	1LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTION	N FORM		
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					- Sange			
XTO Inspector's	Inspection	Inspection	Any visible liner	Anv visible signs of	Collection of surface	Visible laver	Anv visible signs	Freehoard
Name	Date		tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
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						50		
Notes:	Provide De	Provide Detailed Description:	otion:			:		
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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.
- XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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

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

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

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 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.

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

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 143526

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	143526
	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 id	lentify the appropriate associations in the system.
Facility or Site Name	FEE 12C
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	FEE 12C
Well API, if associated with a well	3004532042
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	Not answered.
Tank installed prior to June 18. 2008	True
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.

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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

within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four

Alternate, Fencing. Please specify (Variance Required)

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

QUESTIONS, Page 2

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QUESTIONS (continued)	
	OGRID:

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Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six fact in height, two strands of barbod wire at ten (Paguired if lagged)	

Not answered.

Not answered.

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 solid vaulted top

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	True

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 Not answered. of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for Not answered. consideration of approval

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Houston, TX 77002

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 143526

(3) 470-3410 FAX.(303) 470-3402	
QUESTIONS (continued)	
	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:

143526

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

Action Type:

QUESTIONS

Operator:

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)	Not answered.
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.

roposed 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	11/17/2008

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ACKNOWLEDGMENTS

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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

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CONDITIONS

Created By		Condition Date
scwells	None	9/19/2022