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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505 49M

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Existing BGT Legacy BGT1 below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
I. Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Bolack C LS # 16
API Number: 30-045-06176 OCD Permit Number:
U/L or Qtr/Qtr A Section 33 Township 27N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.534820 Longitude 107.681620 NAD: □1927 ⋈ 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other <u>Visible sidewalls</u> , vaulted, automatic high-level shut off, no liner
Liner type: Thickness mil HDPE PVC Other
Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Visible sidewalls, vaulted, automatic high-level shut off, no liner Liner type: Thicknessmil HDPE PVC Other
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form C-144 Oil Conservation Division Page 1 of 5
Receiv

F 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)	ol, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☑ Other Expanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
⊠ Signed in compliance with 19.15.3.103 NMAC	
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 Burea	u office for
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10. 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 app 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 diabove-grade tanks associated with a closed-loop system.	ropriate district f approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🛛 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No
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
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland.	☐ Yes ⊠ No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.	☐ Yes ⊠ N
Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	7.77
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ⊠ No
	☐ Yes ⊠ N
- LEVIN Map	1/8
Within a 100-year floodplain. - FEMA map Form C-144 Oil Conservation Division Page 2 of	Poloncod to Imagino.
	of to
	ouse.
	Rel

Cemporary Pits. Emergenc	v Pits, and Below-grade Tan	iks Permit Application Attachr	nent Checklist: Subsection B of 19.15.17.9 NMAC
			dicate, by a check mark in the box, that the documents are
 ☒ Hydrogeologic Report ☐ Hydrogeologic Data (T ☒ Siting Criteria Complia ☒ Design Plan - based up ☒ Operating and Mainten 	Cemporary and Emergency Pit ance Demonstrations - based u on the appropriate requirement ance Plan - based upon the ap	s) - based upon the requirements upon the appropriate requirement nts of 19.15.17.11 NMAC upropriate requirements of 19.15.	
Previously Approved De	sign (attach copy of design)	API Number:	or Permit Number:
2. Closed-loop Systems Permi	it Application Attachment C	hecklist: Subsection B of 19.15	5.17.9 NMAC
Instructions: Each of the fo attached.	ollowing items must be attach	ed to the application. Please inc	licate, by a check mark in the box, that the documents are
Geologic and Hydroge Siting Criteria Compli Design Plan - based up Operating and Mainter	ance Demonstrations (only fo pon the appropriate requireme nance Plan - based upon the a	r on-site closure) - based upon the ints of 19.15.17.11 NMAC ppropriate requirements of 19.15	ments of Paragraph (3) of Subsection B of 19.15.17.9 the appropriate requirements of 19.15.17.10 NMAC appropriate requirements of Subsection C of 19.15.17.9 NM.
		API Number:	
	_	100	(Applies only to closed-loop system that use
bove ground steel tanks or l	haul-off bins and propose to in	mplement waste removal for closs	ire)
nstructions: Each of the fo ttached.	,		licate, by a check mark in the box, that the documents are
Dike Protection and SI Leak Detection Design Liner Specifications an Quality Control/Quality Operating and Mainter Freeboard and Overton Nuisance or Hazardou Emergency Response Oil Field Waste Stream	Design Plans - based upon the tructural Integrity Design - based upon the appropriate and Compatibility Assessment by Assurance Construction and nance Plan - based upon the apping Prevention Plan - based s Odors, including H ₂ S, Prevention Characterization	d Installation Plan ppropriate requirements of 19.15, upon the appropriate requiremen	nents of 19.15.17.11 NMAC 1AC Lirements of 19.15.17.11 NMAC
☐ Monitoring and Inspec ☐ Erosion Control Plan ☐ Closure Plan - based u		ents of Subsection C of 19.15.17	.9 NMAC and 19.15.17.13 NMAC
4. Proposed Closure: 19.15.17	7.13 NMAC		
	200	es 14 through 18, in regards to th	
Alternative roposed Closure Method:	■ Waste Excavation and Ren	noval	Pit 🗵 Below-grade Tank 🗌 Closed-loop System
	☐ In-place Burial	Only for temporary pits and close On-site Trench Burial	
	Alternative Closure Metho	d (Exceptions must be submitted	to the Santa Fe Environmental Bureau for consideration)
Vaste Excavation and Rem Iosure plan. Please indicate ☐ Protocols and Procedu ☐ Confirmation Samplin ☐ Disposal Facility Nam ☐ Soil Backfill and Cove ☐ Re-vegetation Plan - b	e, by a check mark in the box res - based upon the appropria g Plan (if applicable) - based to e and Permit Number (for liquer Propriate requestions - based ased upon the appropriate requestions - based	c, that the documents are attached the requirements of 19.15.17.13 Nature of the appropriate requirement and drill cutting fluids and drill cutting fluids.	NMAC as of Subsection F of 19.15.17.13 NMAC angs) ents of Subsection H of 19.15.17.13 NMAC 5.17.13 NMAC
Form C-14	14	Oil Conservation Division	Page 3 of 5

	stems That Utilize Above Ground Steel Tanks or Haul- facilities for the disposal of liquids, drilling fluids and drib		
icilities are required.	ucinics for the asposar of inquias, artining finias and are	i cumings. Osc unacriment if	more mun ino
Disposal Facility Name:		nit Number:	
Disposal Facility Name:	Disposal Facility Perr	nit Number:	
Vill any of the proposed closed-loop system of Yes (If yes, please provide the information	perations and associated activities occur on or in areas that on below) \square No	will not be used for future ser	vice and operation
Re-vegetation Plan - based upon the app	used for future service and operations: ations based upon the appropriate requirements of Subseropriate requirements of Subsection I of 19.15.17.13 NMA appropriate requirements of Subsection G of 19.15.17.13 N	C.	c
rovided below. Requests regarding changes onsidered an exception which must be subm	ethods only): 19.15.17.10 NMAC lemonstration of compliance in the closure plan. Recomment to certain siting criteria may require administrative appro- itted to the Santa Fe Environmental Bureau office for con Please refer to 19.15.17.10 NMAC for guidance.	oval from the appropriate dist	rict office or ma
round water is less than 50 feet below the bot NM Office of the State Engineer - iWA	ttom of the buried waste. ATERS database search; USGS; Data obtained from nearby	v wells	☐ Yes ☐ N
round water is between 50 and 100 feet below NM Office of the State Engineer - iWA	w the bottom of the buried waste ATERS database search; USGS; Data obtained from nearby	/ wells	☐ Yes ☐ N
round water is more than 100 feet below the NM Office of the State Engineer - iWA	bottom of the buried waste. ATERS database search; USGS; Data obtained from nearby	/ wells	☐ Yes ☐ N
/ithin 300 feet of a continuously flowing wate ske (measured from the ordinary high-water m - Topographic map; Visual inspection (c		r lakebed, sinkhole, or playa	☐ Yes ☐ N
	chool, hospital, institution, or church in existence at the tim proposed site; Aerial photo; Satellite image	e of initial application.	Yes N
ratering purposes, or within 1000 horizontal for	ic fresh water well or spring that less than five households ect of any other fresh water well or spring, in existence at the ATERS database; Visual inspection (certification) of the pro-	he time of initial application.	☐ Yes ☐ N
dopted pursuant to NMSA 1978, Section 3-27	vithin a defined municipal fresh water well field covered un 7-3, as amended. om the municipality; Written approval obtained from the m		Yes N
/ithin 500 feet of a wetland US Fish and Wildlife Wetland Identific	cation map; Topographic map; Visual inspection (certificat	ion) of the proposed site	☐ Yes ☐ N
/ithin the area overlying a subsurface mine Written confirmation or verification or	map from the NM EMNRD-Mining and Mineral Division		Yes N
/ithin an unstable area. - Engineering measures incorporated int Society; Topographic map	o the design; NM Bureau of Geology & Mineral Resources	s; USGS; NM Geological	☐ Yes ☐ N
/ithin a 100-year floodplain FEMA map			☐ Yes ☐ N
y a check mark in the box, that the documen ☐ Siting Criteria Compliance Demonstration ☐ Proof of Surface Owner Notice - based upon the Construction/Design Plan of Burial Trees ☐ Construction/Design Plan of Temporary ☐ Protocols and Procedures - based upon the Confirmation Sampling Plan (if applicated Waste Material Sampling Plan - based upon the Confirmation Sampling Plan - based upon the Applicated Soil Cover Design - based upon the Applicated Re-vegetation Plan - based upon the Applica	3 NMAC) Instructions: Each of the following items musts are attached. ons - based upon the appropriate requirements of 19.15.17. apon the appropriate requirements of Subsection F of 19.15 inch (if applicable) based upon the appropriate requirements. Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC ole) - based upon the appropriate requirements of Subsection F of 19.15. on the appropriate requirements of Subsection F of 19.15. on the components of Subsection F of 19.15. on the appropriate requirements of Subsection H of 19.15.17.13 NMA appropriate requirements of Subsection I of 19.15.17.13 NMA appropriate requirements of Subsection G of 19.15.17.13 NMA appropria	10 NMAC 5.17.13 NMAC s of 19.15.17.11 NMAC propriate requirements of 19. on F of 19.15.17.13 NMAC .17.13 NMAC on-site closure standards cann	15.17.11 NMAC
	Oil Conservation Division	Page 4 o	55
Form C-144	a mate an computation alluminary	Page 4 a	E-3

lame (Print): Kim Champlin	Title	Environmental Representative
		01/02/2009
-mail address: kim_champlin@xtoenergy.com	Telephone: _	(505) 333-3100
DCD Approval: Permit Application (including closure plan)	Closure Plan (only) OC	D Conditions (see attachment)
CD Representative Signature: <u>Shelly Wells</u>		Approval Date: <u>08/10/2022</u>
itle: Environmental Specialist-A	OCD Permit Nu	mber: Legacy BGT1
Closure Report (required within 60 days of closure completion): Sunstructions: Operators are required to obtain an approved closure plathe closure report is required to be submitted to the division within 60 ection of the form until an approved closure plan has been obtained a	an prior to implementing an days of the completion of th and the closure activities hav	y closure activities and submitting the closure re ne closure activities. Please do not complete this
- Aller Annua		In piction Date.
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Metho	od Waste Removal (Closed-loop systems onl
i. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the lique vo facilities were utilized.		
Disposal Facility Name:	Disposal Facility	Permit Number:
Disposal Facility Name:	Disposal Facility	Permit Number:
Vere the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)		ot be used for future service and operations?
equired for impacted areas which will not be used for future service an Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:	
Closure Report Attachment Checklist: Instructions: Each of the follower in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site 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		ed to the closure report. Please indicate, by a chi
	1000-000 11000	
Derator Closure Certification: hereby certify that the information and attachments submitted with this elief. I also certify that the closure complies with all applicable closure		
fame (Print):	Title:	
ignature:		
-mail address:	Telephone:	
-mail address:Form C-144 Oil Coi		

Se from A.

JANUARY 31, 1958

Фреганог	EL PASO N	IATURAL GAS	COMPANY	Longer	BOLACK		SF 0792	32	
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Located	910 F	eet From No	ORTH Lene	9	700	Face	EAST		1
Constants.	SAN JUAN	G. L. F.		5741	Dogganasi	resign	320	13	Victoria
Nivio of P	reducing Extracti	MESA VEI	RDE		BLAN	CO EXT.	MV		

- 1. It to Operator the only owner in the fells upon or we are that earner, in the all Yes 2 No.
- 2. If the answer to question one is "ma", have the interests 4 of the least seen need the fits of county man accomment or otherwise. Yes Our If enewer to "seed", Type of Constitution.

To B the answer to question two to "no", Let all the experiend their respective a perekt feelow

U. S. GEOLEGICA FARRINGTO OIL CON. COM.

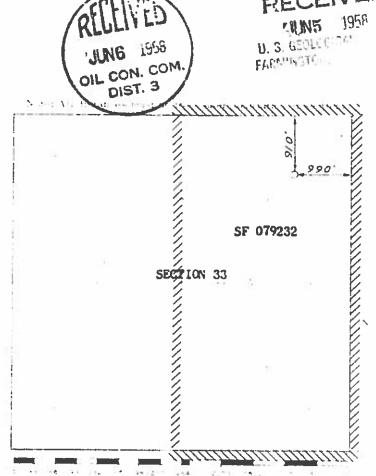
58 a . . It.

They are the mertify that the information nose from A showe is true and complete. is the best of my knowledge and facinet.

Original Signed D. C. Johnston Representative

Address Farmington, New Mexico

THIS PLAT REISSUED TO SHOW NOTE: PICTURED CLIFF DEDICATION ABANDONED. THIS WELL WILL BE COMPLETED IN MESA VERDE FORMATION ONLY.



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with two property and from the first order of actions pro-yruste in management the observation of a result of the same of the production of the production of of my accession of allow,

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Far angron, New Mexico.

JANUARY 15, 1958

Released to Imaging: 8/10/2022 11:34:40 AM

A I adams Camina		Pit Permit		**************************************
Lodestar Service		Siting Criteria	Project:	tank permitting
10 Bez 4465, Daraep	e, CD 81302	Information	Revised:	2-Dec-08
V		intormation	Prepared by:	Trevor Ycas
API#:	3	0-045-06176	USPLSS:	27N 08W 33 A
Name: E	BOLACK C I	S No. 016	Lat/Long:	36.534820°, -107.681620°
Depth to groundwater:	,	depth > 100'	Geologic formation:	San Jose Formation (Tsj)
Distance to closest continuously flowing watercourse:	14.6 miles	NW to 'San Juan River'	site elevation: 2046m/6713'	
1 10	main wash	W to 'Blanco Canyon' channel; 1.7 miles NE Canyon' main channel		
			Soil Type:	Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
			Annual Precipitation:	Navajo Dam: 12.95", Governador: 11.98", Capulin Rgr Stn.: 14.98", Otis: 10.41"
Domestic fresh water well or spring within 500'		NO	Precipitation Notes:	Historical daily max. precip.: 4.19" (Bloomfield)
Any other fresh water well or spring within 1000'		NO		
Within incorporated municipal boundaries		NO	Attached Documents:	26N7W_iWaters.pdf, 26N08W_lWaters.pdf, 26N09W_iWaters.pdf, 27N07W_iWaters.pdf, 27N08W_iwaters.pdf, 27N09W_iwaters.pdf, 28N07W_iWaters.pdf, 28N08W_iWaters.pdf, 28N09W_iWaters.pdf
Within defined municipal fresh water well field		NO	FM35006407508_30- 045-06176.jpg	30-045-06176_gEarth-iWaters.jpg, 30-045-06176_gEar PLS.jpg ,30-045-06176_topo-PLS.jpg
Wetland within 500'		NO	Mining Activity:	None Near NM_NRD-MMD_MinesMillQuarries_30-045-06176jp
Within unstable area		NO		
Within 100 year flood plain	NO	- FEMA Zone 'X'		
Additional Notes:				
rains to 'Largo Canyon' via 'Onofre Jaquez Canyon'				Atop Blanco Mesa, S of 'Onofre Jaquez Canyon'

XTO Energy

Client:

Bolack C #16 Below Grade Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the central Largo Canyon region of the San Juan Basin southeast of Hollis Pass, south of Onofre Jaquez Canyon, atop Blanco Mesa. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose ranges from 200 to 2700 feet, thickening from west to east (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the San Jose Formation are between 0 and 2700' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River. Little specific Hydrogeologic data is available for the San Jose Formation system, but "numerous well and springs used for stock and domestic supplies" draw their water from the San Jose Formation (Stone et al, 1983).

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area and prohibits effective recharge to the underlying aquifers.

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

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

Site Specific Hydrogeology

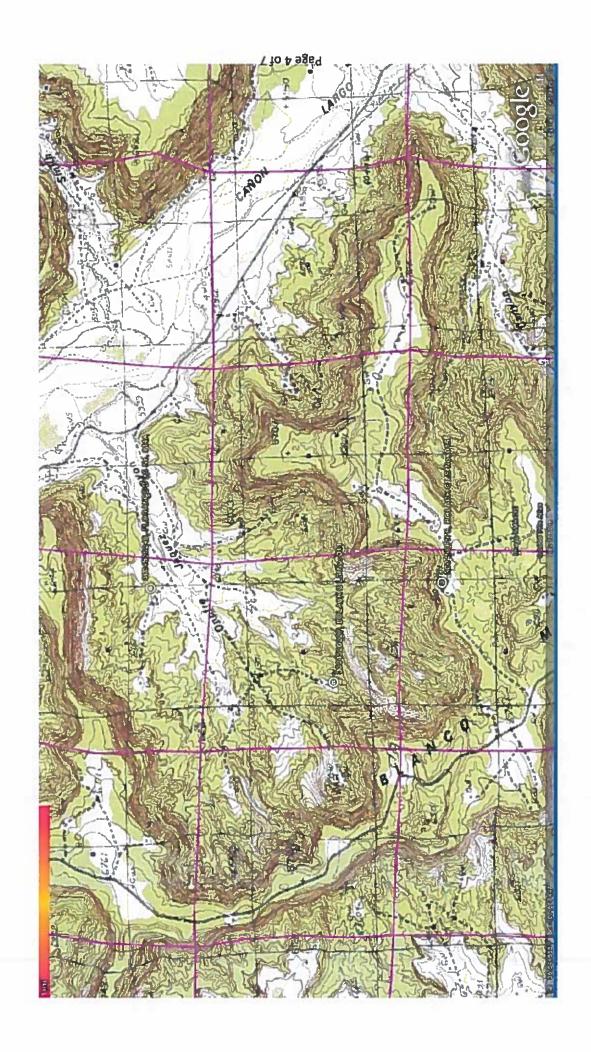
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

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

The site in question is located on relatively flat ground atop Blanco Mesa at an elevation of approximately 6710 feet and approximately 1.7 miles west of Largo Canyon. This site drains to Largo Canyon, some 1.7 miles to the east. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the other dominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Largo Canyon and within major tributary systems. However, an elevation difference between the site and the base of Blanco Canyon of over 400 feet suggests groundwater is considerably deeper at the proposed site.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 2.3 miles east in Largo Canyon (SJ02410). Other 'nearby' iWaters wells are located 8.1 miles north-northwest (SJ02800), 4.8 miles east-northeast (SJ02314), and 3.1 miles west (SJ02961).

Wells located at similar elevations along Largo Canyon contain groundwater primarily at depths greater than 18 feet, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached. An elevation difference of over 400 feet between the site and the nearest major stream channel suggests groundwater is likely deeper than 100 feet.





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	Search Radius:	Number: Suffix:	─ ○ Non-Domestic ○ Domestic ● All	Report Water Column Report	n Help
Township: 28N Range: 08W Sections:	NAD27 X: Zone:	y: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form IWATERS Menu
		County:	Оwпе		

WATER COLUMN REPORT 08/04/2008

	(quarters	are	1=3	14	Z	E 3=SW 4=5	3E)						
	(quarters	are	big	305	ید	(quarters are biggest to smallest)	st)			Depth	Water	(in f	feet)
POD Number	Twe	Rng	Sec	η. Ο	5	Zone	×	×		Water	Column		
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J 00209	28N	M80	17	E	H								
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J 00209 S	28N	08W	17	===					15		15		
J 00163 S	28N	. MB0	18	4.	2				1450	800	650		
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Record Count: 5

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Township: 28N Range: 07W Sections:	NAD27 X: Zone: Zon	County: Basin: Suffix:	Owner Name: (First) CLast) Owner Name: (First) Owner Onestic Onestic Onestic	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
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WATER COLUMN REPORT 08/11/2008

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POD / SUMPACE DATA REPORT 10/11/2008

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Township: 27N Range: 08W Sections: D27 X: Y: Zone: Basin: (Last) First) (Last)	Clear Form iWATERS Menu Help
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WATER COLUMN REPORT 08/04/2008

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WATER COLUMN REPORT 08/04/2008

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WATER COLUMN REPORT 08/08/2008

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WATER COLUMN REPORT 08/07/2008

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WATER COLUMN REPORT 08/06/2008

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WATER COLUMN REPORT 08/12/2008

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

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WATER COLUMN REPORT 08/06/2008

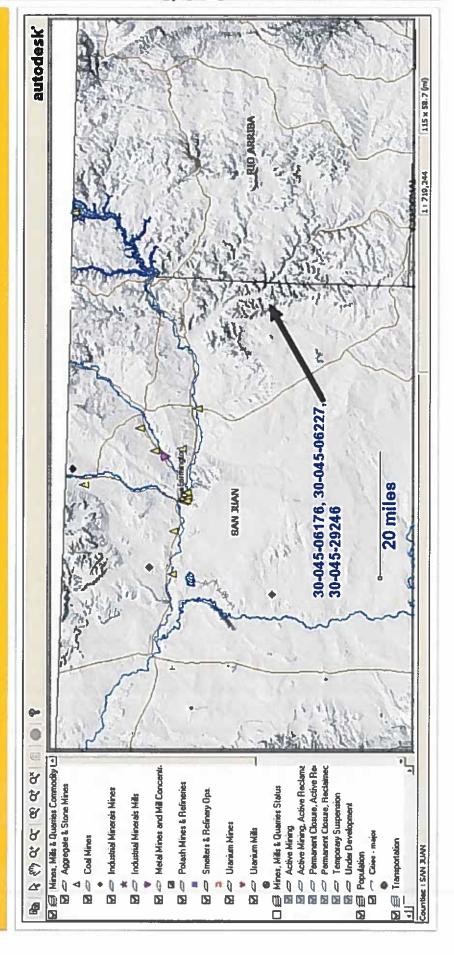
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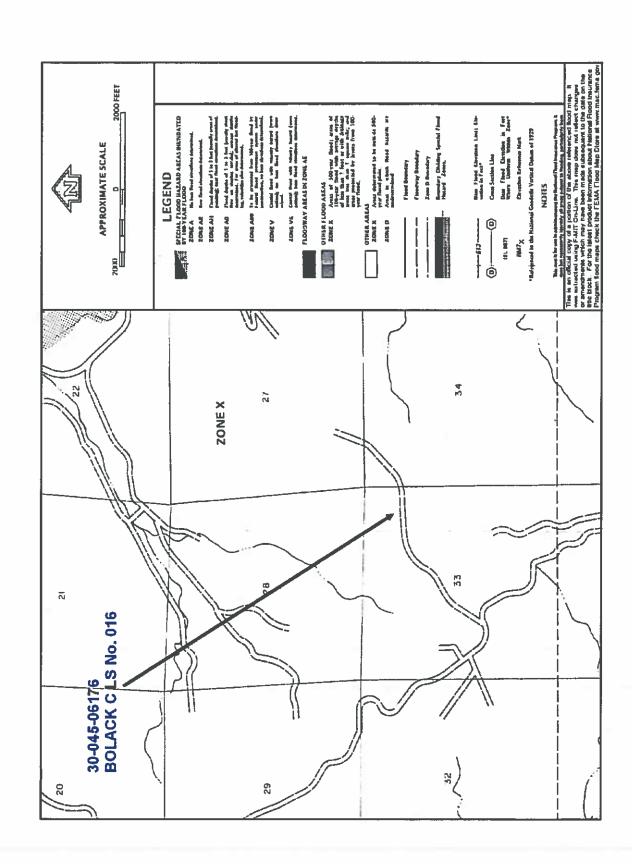
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Mines, Mills and Quarries Web Map





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

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 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 \(\frac{1}{2} \) mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital. institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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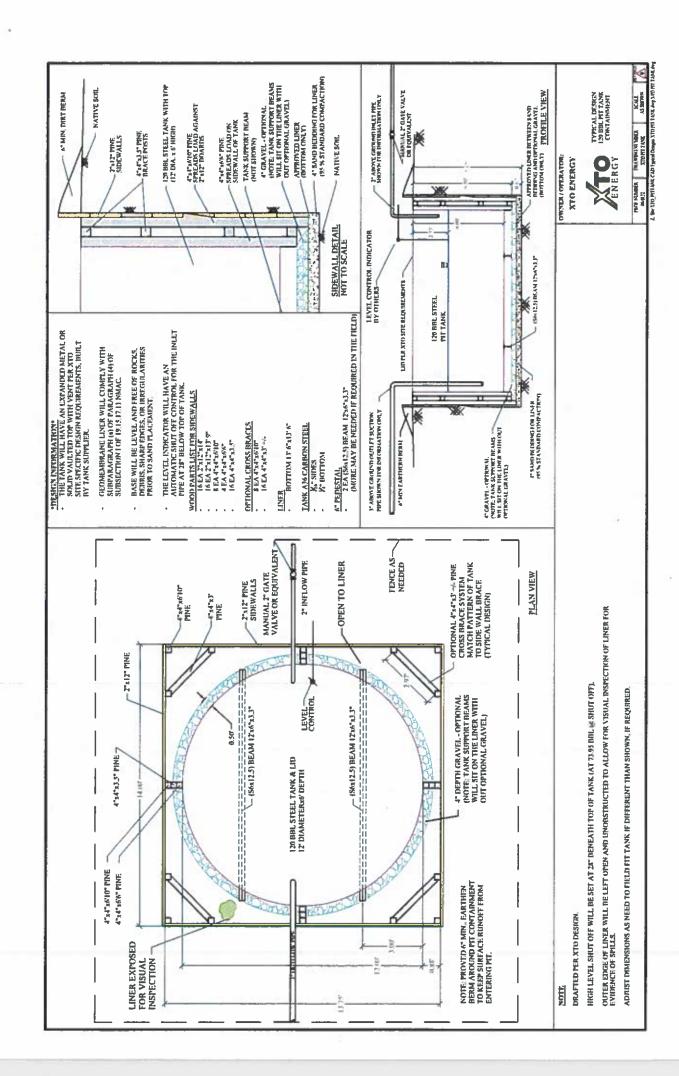
XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

> 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 9. 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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The general specifications for design and construction are attached. 11.



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

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

General Plan

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

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

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- 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.

		MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTIO	N FORM		
Well Name:					API No.:			
ed sa sa	 		Township:		Rande:			
			_					
XTO	laction	Instruction	Any visible	Any visible signs of	Collection of	Visible laver	Any 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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Notes:	Provide De	Provide Detailed Description:	otion:					
Misc:								

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

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

General Plan

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (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

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

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

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

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

- 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.

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XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Closure Plan
For Below-Grade Tanks
Page 3

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner;
 - ii. Details on capping and covering, where applicable;
 - iii. Inspection reports;
 - iv. Confirmation sampling analytical results;
 - v. Disposal facility name(s) and permit number(s);
 - vi. Soil backfilling and cover installation;
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
 - viii. Photo documentation of the site reclamation.

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 98047

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	98047
	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	dentify the appropriate associations in the system.
Facility or Site Name	BOLACK C LS 16
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	BOLACK C LS 16
Well API, if associated with a well	30-045-06176
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.

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

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

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

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

QUESTIONS, Page 2

Action 98047

QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
QUESTIONS	
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	(s)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' steel mesh
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	e their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration	Not answered.

Not answered.

Requests must be submitted to the Santa Fe Environmental Bureau office for

of approval. Exception(s):

consideration of approval

QUESTIONS

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QUESTIONS, Page 3

Action 98047

QUESTIONS (continued)	
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street Houston, TX 77002	Action Number: 98047
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)

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	No	

lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No	
Proposed Closure Method		
Below-grade Tank	Below Grade Tank - (BGT)	
Waste Excavation and Removal	Not answered.	

L	Delow-grade Talik	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	01/02/2009

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ACKNOWLEDGMENTS

Action 98047

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	98047
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 98047

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	98047
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By		Condition Date
swells	None	8/10/2022