Form C-144 July 21, 2008

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 <u>District IV</u> 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.

2008 DEC 12

anta Fe, NM 87505

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

Pit, Closed-Loop System, Below	w-Grade Tank	<u>, or</u>
Proposed Alternative Method Permit or		
Type of action: Existing BGT Closure of a pit, closed-loop system, below Modification to an existing permit Closure plan only submitted for an existin below-grade tank, or proposed alternative method	w-grade tank, or pro	posed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, c	losed-loop system, bei	low-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should or environment. Nor does approval relieve the operator of its responsibility to comply with any other contents.	perations result in pollu	tion of surface water, ground water or the
Operator: XTO Energy, Inc.	_ OGRID #:	5380
Address: #382 County Road 3100, Aztec, NM 87410		
Facility or well name:BOLACK C # 20		
API Number: OCD Permit N	umber:	
U/L or Qtr/Qtr J Section 31 Township27N Range	_08 <u>W</u> County: _	San Juan
Center of Proposed Design: Latitude 36.529440 Longitude	107.718610	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 String-Reinforced Liner Seams: Welded Factory Other Volume:		
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 intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDl Liner Seams: Welded Factory Other		
4. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120	nd automatic overflow	Vehut-off
P Secondary contamination with teak detection visible sidewans, infer, 0-inch lift a	nu automatic overnow	21101-011

Alternative Method:

Liner type: Thickness

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

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

mil HDPE PVC Other

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) 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	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Expanded metal or solid vaulted top Monthly inspections (If netting or screening is not physically feasible)	
s. Signs: Subsection C of 19.15.17.11 NMAC □ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers □ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 acceptanterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
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. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ 14
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No.
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ 198
Within a 100-year floodplain. - FEMA map	☐ Yes ☒ Neg
	☐ Yes ☒ Yes ☒ Nage 10 Imaging: 8

of 38
Tit- age 3
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached. ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
☐ Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
above ground steet tanks or natit-off oths and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal
On-site Closure Method (Only for temporary pits and closed-loop systems) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Form C-144 Oil Conservation Division Page 3 of 5

od 38	
80 80 80 80 80 80 80 80 80 80 80 80 80 8	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	
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 occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	vice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С
17. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distributed an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure particle by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canr Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	.15.17.11 NMAC 22:25
Form C-144 Oil Conservation Division Page 4 o	of 5

to		
\$ 6 3		
19.41		
Operator Application Certification: I hereby certify that the information submitted with this application.	ation is true, accurate and complete to the	e best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date;	11-25-08
e-mail address: kim_champlin@xtoenergy.com	Telephone:	(505) 333-3100
OCD Approval: Permit Application (including closure pla	nn) Closure Plan (only) COCD (Conditions (see attachment)
OCD Representative Signature: Shelly Wells		Approval Date: 08/05/2022
Title: Environmental Specialist-A	OCD Permit Numb	er: Legacy BGT1
Closure Report (required within 60 days of closure completed instructions: Operators are required to obtain an approved of the closure report is required to be submitted to the division we section of the form until an approved closure plan has been of	osure plan prior to implementing any cl within 60 days of the completion of the c	losure activities and submitting the closure report. closure activities. Please do not complete this een completed.
22.	•	
Closure Method: Waste Excavation and Removal On-Site Closure Met If different from approved plan, please explain.	hod Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closure Instructions: Please indentify the facility or facilities for when two facilities were utilized.	sed-loop Systems That Utilize Above Core the liquids, drilling fluids and drill cu	Ground Steel Tanks or Haul-off Bins Only: attings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Per	rmit Number:
Disposal Facility Name:	Disposal Facility Per	rmit Number:
Were the closed-loop system operations and associated activitie Yes (If yes, please demonstrate compliance to the items by		be used for future service and operations?
Required for impacted areas which will not be used for future so Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ervice and operations:	
Closure Report Attachment Checklist: Instructions: Each of mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required fo 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	· · · · · · · · · · · · · · · · · · ·	to the closure report. Please indicate, by a check NAD: □1927 □ 1983
25.		
Operator Closure Certification: I hereby certify that the information and attachments submitted belief. I also certify that the closure complies with all applicables.	with this closure report is true, accurate a	and complete to the best of my knowledge and secified in the approved closure plan.
Name (Print):		recined in the approved closure plan.
Signature:	Date:	2/202
e-mail address:	Telephone:	%: %: %: %: %: %: %: %: %: %: %: %: %: %
900		masin
Form C-144	Oil Conservation Division	Page 5 of 5
War 201		

DISTRICT	1			-
P.O. Box	1980,	Hobbs.	H.M.	88241-1980

State of New Mexico .rgy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

Pool Name

DISTRICT II P.O. Drower DD, Artselo, N.M. 88211-07/BEC'D / SAN JUAN

*Pool Code

APR 1 0010 CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

□ AMENDED REPORT

DISTRICT IV PO Box 2088, Senie Fe, NM 87504-2088

DISTRICT IN 1000 Rio Bruzos Rd., Aziec, N.M. 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

30045		912	<u>: L</u> \12	3319		31000	Meso	nord	0	
Property Co	31		_		² Property			19	* Well Hu	V0.E.1
C 80.	70				BOLACK				20	
FOGRID No.				7.6	*Operator				* Elevel	
1670	67	<u></u>			XTO ENERG	Y INC.		8	ori.	*
UL or let no.	Section	Township	- Pensa I	Let Idn	10 Surface	Location ** North/South line	Feet from the	East/West lir	na Cou	inty
J	31	27-N	Range 8-W	Det lett	2100	SOUTH	1415	EAST		AN JUAN
			11 Botto	m Hole	Location		m Surface	*		
UL or let no.	Section	Township	Range	Lot Ida	Feet from the	North/Seuth line	Feet from the	East/West III	ле Со	unly
¹² Dedicated Acres		18	Joint or Infill	*	¹⁴ Consolidation (Cede	16 Order No.	<u> </u>		
320	8	2	I		1					
NO ALLOW	VABLE Y	MILL BE	ASSIGNED	TO TH	IS COMPLET	ON UNTIL ALL	INTERESTS	HAVE BEER	N CONS	OLIDATED
						EEN APPROVED				
			4				17	OPERATOR	CEDTIC	CATION
	!				/ '		الله محمد و	that the informat	ton contained I	herelo la
LOT 1							true and com	plete to the best of	i tià pangage	and belief
1 201 1	:				\		/ .			
1		1151670			/ '					
		A						23		
/s	5 J,	M 2004	(2.3)				∇	. ^		
	2.7	11.1	12:4		/ /		2500	4 1 X1	mall	
LOT 2	CL					\	Signoture A o	in Ke	Smal	1
20.	O 4	S. In et l	LAT. 3	631'46	(CB CAM) J		Printed No	ama)		
1	(S)		/LONG.	10743'07	W (NAD 83)	SEC. CO	RNER THE	moch	15515	+CIVIC
	72.6	مستناسدة عاد	<u> </u>	31	14 A	SEC. CC FP 3 1/ 955	BULL 8	103	545	A11
				3.4	2	130'	4 0010	URVEYOR	CERTIFIE	CATION
				, ,	1156	1415'	I have on	How that the well	location show	m on this plot
LOT 3			•	1 4	1150	14.5	was platted t	from ficial notes of supervision, and	d actual surve	וחו עם 1920 בעו בע
1 101 3	- 1		2140	1			correct to th	se best of my be	Zel.	
-				1	/ B		5.	WOR'VOR'	(2)3	
				1			2662.0. 2662.0. 2662.0.	and Syd at Provi	2 J	yer:
						\ \	8 3 E	and Self of 1790 (14827)	. 18	14
				1	/ /		2/一個	101		
LOT 4					2100		N 2662.		スシン	
201 7				1 /	/ 24			-01522101	NAME OF THE PARTY	
	j	QT ED	R. CORNER 3 1/4° BC 1955 BLM	Ви	8-50-25 W	SEC. COR FO 3 1/4' 1955	NER Cartificate	1482	/ .	¥.
			1955 BLM	_	257(.5	1955	BUI	W.		

Received by OCD: 4/11/2022 7:04:44 AM

Lodestar Services, P0 Box 4465, Durango, 0 API#: Name: BC	Cibina Cuibani.	***************************************	tank permitting 22-Nov-08
API#:	N 01307	***************************************	22-Nov-08
API#:	Information Sh		
		eet Prepared by:	Trevor Ycas
Name: RC	30-045-31912	USPLSS:	27N 08W 31 J
Name: Bu	NACK C No. 030	Let/Lengt	26 5204409 407 7406409
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DLACK C No. 020	Lat/Long:	36.529440°, -107.718610°
	depth<50'	Geologic	For loss Formation (Tail)
Depth to groundwater:	depth<30	formation:	San Jose Formation (Tsj)
Distance to ciosest	54	Site Elevation:	
·	3.8 miles NW to 'San Juan River	1868m/6129'	
watercourse:			
Distance to closest			
significant watercourse,	1240' W to 'Blanco Canyon'		
lakebed, playa lake, or	12 to the blanes carryon		
sinkhole:			
	E EEFME	Soii Type:	Rockland/ Alluvial Entisols
Permanent residence,			
school, hospital,	NO		
institution or church	NO		
within 300'			
		Annual	Navajo Dam: 12.95", Governador: 11.98",
		Precipitation:	Capulin Rgr Stn.: 14.98", Otis: 10.41"
Domestic fresh water		Precipitation	Historical daily max. precip.: 4.19"
well or spring within	NO	Notes:	(Bloomfield)
500'	<u></u>		(5.55.11.15.0)
Any other fresh water			
well or spring within	NO		
1000'			
			across and across and
		Attached	26N06W_iWaters.pdf, 26N07W_iWaters.pdf, 26N08W_iWaters.pdf, 27N07W_!Waters.pdf,
Within incorporated	NO	Documents:	27N08W_iwaters.pdf, 27N09W_iwaters.pdf,
municipal boundaries			28N07W_iWaters.pdf, 28N08W_iWaters.pdf,
Within defined			28N09W_!Waters.pdf
municipal fresh water	NO	FM3500640750B-30-	30-045-31912_gEarth-PLS.jpg, 30-045-31912_topo-
well field	NO	045-31912.jpg	PL5.jpg, 30-045-31912_gEarth-iWaters.jpg
well field			
		1	
Wetland within 500'	NO	Mining Activity:	None Near
		J. Committee	NM_NRD-MMD_MinesMillQuarrles_30-045-31912.jpg
Within unstable area	NO		
Within 100 year flood	A1- FFF AA TO 10-11		
piain	No -FEMA Zone 'X'		
Additional Notes:			
Transferential transmit			
destructe Discover			
drains to Blanco Canyon			in Blanco Canyon
			6

XTO Energy

Client:

Bolack C #20 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 western Largo Canyon region of the San Juan Basin, below Blanco Mesa in Blanco Canyon. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose ranges from 200 to 2700 feet, thickening from west to east across the region of interest (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the San Jose Formation are between 0 and 2700' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows north, toward the San Juan River. Little specific hydrogeologic data is available for the San Jose Formation system, but "numerous 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 rocklands 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 12 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

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

Released to Imaging: 8/5/2022 4:32:22 PM

Site Specific Hydrogeology

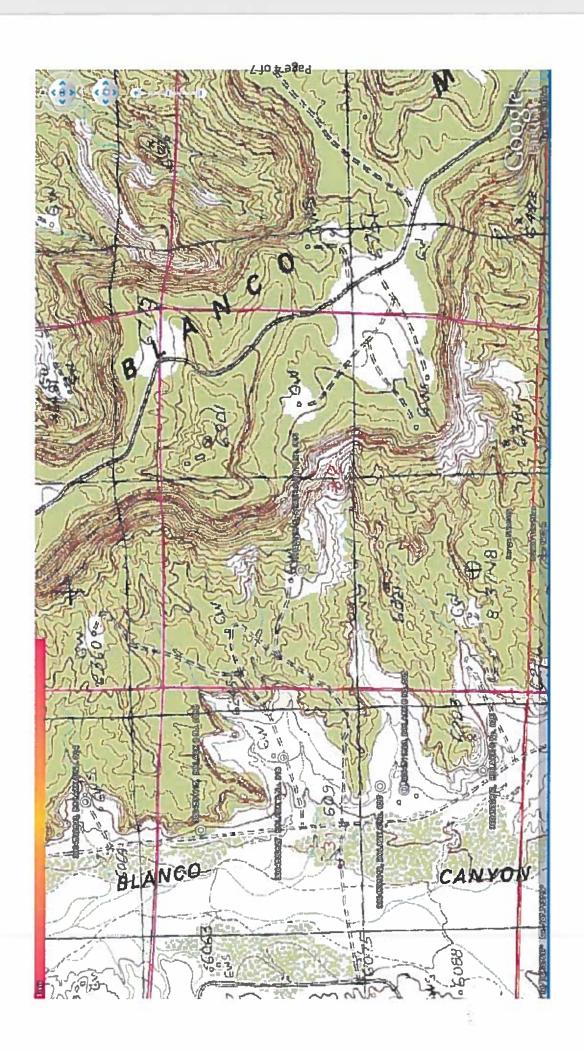
Depth to groundwater is estimated to be less than than 50 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 1.7 miles southwest (SJ 02961). Other 'nearby' iWaters wells are located 2.4 miles southwest (SJ 02962) and 4.4 miles east-southeast (SJ 02410).

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 a relatively flat area below Blanco Mesa, between the base of the mesa and the main Blanco Canyon stream channel at an elevation of approximately 6130 feet and approximately 1240 feet east of Blanco Canyon. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the predominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. Groundwater is expected to be shallow within Blanco Canyon and within major tributary systems. However, an elevation difference between the site and the base of Blanco Canyon of only 80 feet is not enough to suggest that groundwater at the proposed site is considerably deeper.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Wells located at similar elevations along Largo & Blanco Canyons contain groundwater at depths of 18 feet and deeper, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached.

Released to Imaging: 8/5/2022 4:32:22 PM





	Search Radius:	Number: Suffix:	O Non-Domestic O Domestic O All	port Water Column Report	Heip
Township: 28N Range: 08W Sections:	NAD27 X: Y: Zone:	County:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form IWATERS Menu Help

WATER COLUMN REPORT 08/04/2008

6)	Darters	are	1=1	~		3=81	4 4=SE)							
5)	(quarters are biggest to smallest)	are	big	9	بد	S SIL	allest)			Depth		Water (in	(in	feet)
POD Number	Tws	ang s	0	0	ט	20	90	×	×	Well	Water	Column		
sJ 02283	28N (38W 1	4	N	\vdash					540		09		
sJ 00209	28N ()8W 1	7	2	\leftarrow					15				
SJ 00209 -AMENDED-	3 28N ()8W 1	7	-	\vdash					15				
SJ 00209 S	28N ()8W 1	7	-	\leftarrow					15		15		
sJ 00163 s	28N (18W 1	89	4	2					1450	800	650		

Record Count:

8/4/2008 R-13 PM

Township: 28N Range: 07W Sections:	AD27 X: Zone: Search Radius:	Basin: Number: Suffix:	: (First) Onestic Ones	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help
Township:	NAD27 X: ☐	County:	Owner Name: (First)	POD / Surfe	

WATER COLUMN REPORT 08/11/2008

POD Number SJ 00002 SJ 03116	(quarters are 1=NW 2=NE 3 (quarters are biggest to Tws Rng Sec q q q 28N 07W 14 1	s are 1=NW 2=NE s are biggest t Rng Sec q q q 07W 14 1 07W 21 3 3 3	18 50 14 14	35	2 d 8 t l	10点	quarters are 1=NW 2=NE 3=SW 4=SE) quarters are biggest to smallest) Tws Rng Sec q q q Zone 28N 07W 14 1 28N 07W 21 3 3 3	× ×	 >+	Depth Well 375	Depth Water 20	Water Column	(in fe	feat)

Record Count: 2

							Depth Dept Well Water	
					0.00		Finish Date	
							Start	
		ı	⊕ All				UTM are in Meters) UTM_Zone Easting Northing	
			mestic				34	
	Scarch Radius:	Number: Suffix:	O'Non-Domestic O'Domestic @ All	POD / Burtace Data Report Avg Depth to Water Report Water Column Report	_		(quarters are averyest to seal lest X are in Feet quarters are biggest to seallest X are in Feet Bource Twe Eng Sec q q q Zone X	
	133	Numbe	NO	Raport	mi Heb	0	Linet.	
Sections:	Zone:			Jepth to Water	Clear Form WATERS Menu Help		iquatters are lower to smallest fquarters are biggest to smallest Bource Two Eng Sec q q q	
gc: psw			(Last)	ort Angl	ner Form		are bigg	
Township: D7N Range: psw Sections:] X	Basin:	ı	Surface Data Reg	۵		iquarters iquarters Bour	
Township	NAD27 X.	County	Owner Name: (First)	P0018		PORT 08/12/2008	POD Mumber	
						POD / SUMPACE DATA BEPORT 08/12/2008	(acre ft per athitm) Use Diversion Owner	Lry again
								found,
							DB 711e Mbr	No Records found, try again

	Search Radius:	er: Suffix:	O Non-Domestic O Domestic	Water Column Report	d
nge: 08W Sections:	Y: Zone:	Number:	(Last) ON	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
Township: 27N Range: 08W	NAD27 X:	County: Basin:	Owner Name: (First)	POD / Surface Data Re	5

WATER COLUMN REPORT 08/04/2008

Water (in feet) Column Depth Water Depth Well 2200 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q 27N 08W 36 1 3 2 POD Number SJ 02410

Record Count: 1

8/4/2008 7-53 PM

Township: 27N Range: 07W Sections:	NAD27 X: Zone: Zone: Search Radius:	County: Basin: Suffix:	Owner Name: (First) (Last) (Domestic Obomestic Obomestic Obline	POD / Surface Data Report	Clear Form WATERS Menu Help
		Coun	Owner		

WATER COLUMN REPORT 08/04/2008

RG 81025 Tws Rng Sec q q q 2 cone X Well Water Water Column RG 81025 TW 800 Number TW 800 Sec q q q 2 cone X Well Water Golumn Column Golumn SJ 00195 27N 07W 15 2 2 3 3 465 35 35 35 SJ 02408 27N 07W 35 3 4 4 3 4 450 30 100 100 SJ 02404 27N 07W 35 4 3 3 4 3 3 4 3 3 4 4 450 30 300		(quarter	s are	TIEST TE	2=	Ä	3=SW 4=SE)					8
Tws Rng Sec q q q Zone X Yell Water 27N 07W 35 4 3 3 560 465 27N 07W 15 2 1633 500 27N 07W 17 3 3 355 320 27N 07W 21 2 1 3 400 300 27N 07W 35 3 4 4 450 300 27N 07W 35 4 3 3 550 250		(quarter	s are	bid	lest	٠. د	smallest)			Depth	Water	<i>b</i>
27N 07W 35 43 3 560 465 27N 07W 15 2 355 320 27N 07W 21 3 400 300 27N 07W 35 34 4 450 27N 07W 35 4 33 550 250	tı.	TWS	Rng	Sec c	ם ב	ט	Zone	×	×	Water	Column	
27N 07W 15 2 27N 07W 17 3 27N 07W 21 2 27N 07W 35 3 460 3 27N 07W 35 4 27N 07W 35 4 27N 07W 35 4		27N	07W	35 4	m	m				465	95	
27N 07W 17 3 3 355 320 27N 07W 21 2 3 400 300 27N 07W 35 3 4 450 300 27N 07W 35 4 3 550 250		27N	ML0	15 2						200	1133	
27N 07W 21 2 1 3 400 300 27N 07W 35 3 4 4 450 27N 07W 35 4 3 3 550 250		27N	07W	17 3	m					320	35	
27N 07W 35 3 4 4 450 250 250 250		27N	ML0	21 2	eri	m				300	100	
27N 07W 35 4 3 3 550 250		27N	07W	35	4	4						
		27N	07W	35 4	(m)	m				250	300	

Record Count:

8/4/2008 R-02 PM

Township: 26N Range: 09W Sections:	NAD27 X: Zone: Zone: Search Radius:	nty: Basin: Suffix: Suffix:	r Name: (First)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help
	NA	County:	Owner Name:		

WATER COLUMN REPORT 08/08/2008

	(quarters are 1=NW 2=NE 3=SW 4=SE	are	1=Z	.z.	Z	m EI	=SW 4=SE)						
	(quarters are biggest to	are	big	306	ñ	to	smallest)		Depth	Depth	Water (in	(in	feet)
POD Number	TWS	Rng !	Sea	0	ם		X euoz	×	Well	Water	Column		
SJ 02961			01	2 2	m				1500				
SJ 02962	26N		0.1	3 2	m				1500				
			11	2 2	m				75	40	35		
	26N		12	(i)	3				348	175	173		
		. W60	16	</th <th></th> <th></th> <th></th> <th></th> <th>202</th> <th>65</th> <th>137</th> <th></th> <th></th>					202	65	137		
	26N	. Weo	26	2 4	2				946	230	716		
	26N		26	57	Н				490	215	275		
SJ 00063	26N	. W60	26	ZI'	رن				479	234	245		

Record Count:

8/8/2008 1:59 PM

Township: 26N Range: 08W Sections:	NAD27 X: Zone: Zone: Search Radius:	y: Basin: Suffix:	Name: (First) (Last) Onn-Domestic Onnestic Onnes	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
	NA	County:	Owner Name:		

WATER COLUMN REPORT 08/07/2008

		Water Column	100		2200
s are 1=NW 2=NE 3=SW 4=SE)	s are biggest to smallest)	Rng Sec q q q Zone X	08W 01 3 4 3	26N 08W 01 4 4 1	08W 01 4 4 1
(quarters	(quarter:	POD Number Tws		SJ 02411 26N	

Record Count: 3

M9 50-3 8000/7/8

WATER COLUMN REPORT 08/06/2008

	(quarters are 1=NW 2=NE 3	are	TH Z	3	ZIII	EI EI	3=SW 4=SE	_						
	(quarters	are	bid	ě	34	to	smallest	-		Depth	Depth	Water	(in	feet)
POD Number	Tws R	Rng Sec q q q	300	ש	5	-	Zone	×	×	Well	Water	Column		
SJ 02409	26N (0 M/C	77		2					700	400	300		
	26N () WC	. 2	., .,	3					36	18	18		
	26N (17W 1	5	√.	1 2					365	26	339		
SJ 00070	26N (7W 1	5	7	(C)					335	22	313		
	26N (7W C	30	(L)	2 1					280	180	100		

Record Count:

9/K/1000 1:00 DIA

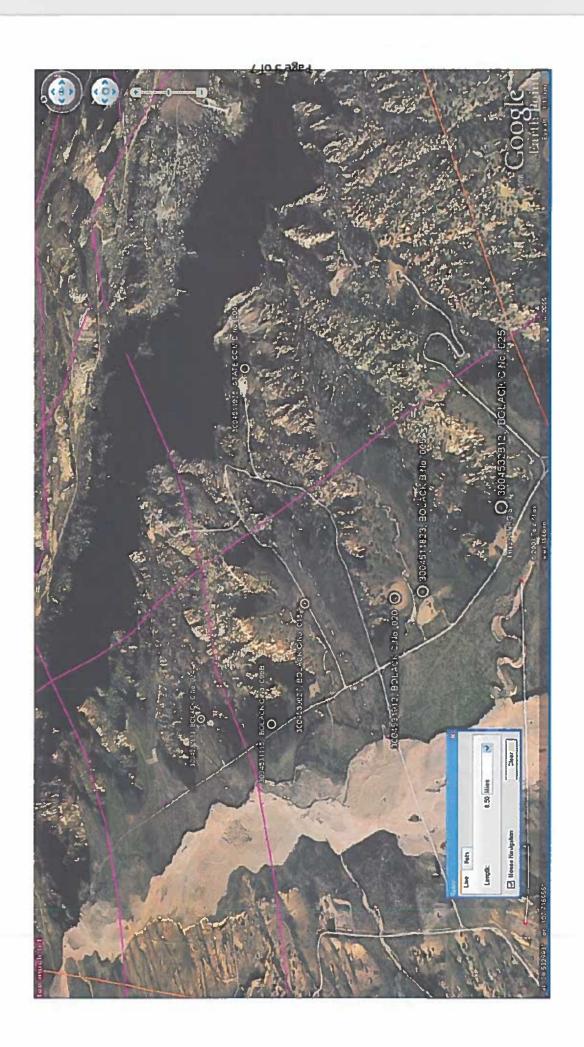
W Sections:	Zone: Search Radius:	Number: Suffix:	(Last) ONon-Domestic ODomestic © All	POD / Surface Data Report Avg Depth to Water Report	iWATERS Menu Help
Township: 28N Range: 09W	NAD27 X:	County: Basin:	Owner Name: (First) (POD / Surface Data Report	Clear Form

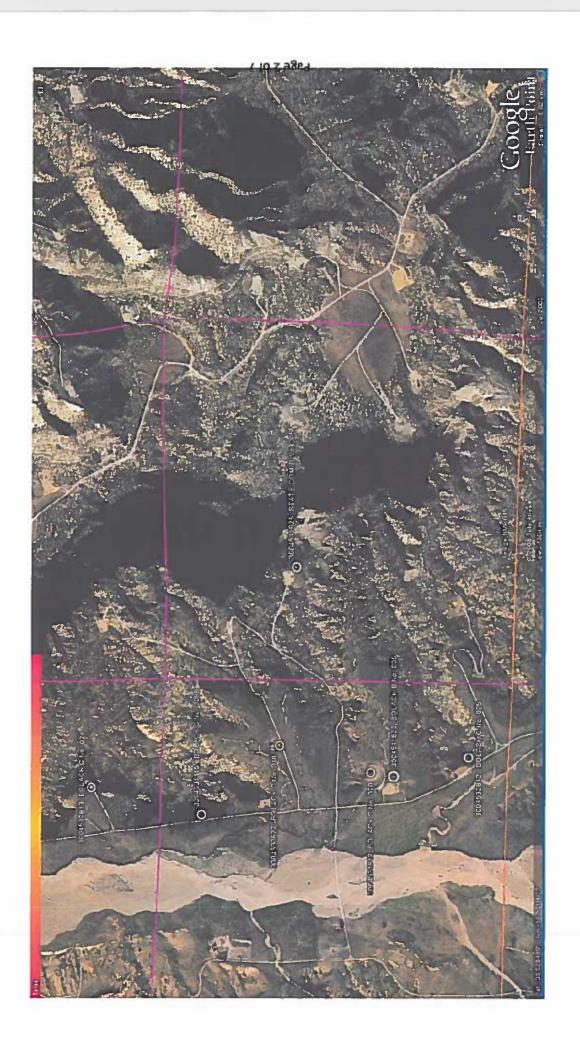
WATER COLUMN REPORT 08/06/2008

	(quarters	are		¥,	2	見	1=NW 2=NE 3=SW 4=SE)							
	(quarters	are	bic	1ge	Bt	ţ	smallest)			Depth	Depth	Water	(in	feet)
POD Number	Twe	Rng	Sec.	ש	מ	ש	Tws Rng Sec q q q Zone	×	×	Well	Water	Column		
SJ 03746 POD1	28N	M60	20	 1	N	m				190	40	150		
SJ 00018	28N	M60	20	m	-	D.				135	7.1	64		
SJ 02800	28N	M60	24	작	2	m				200				

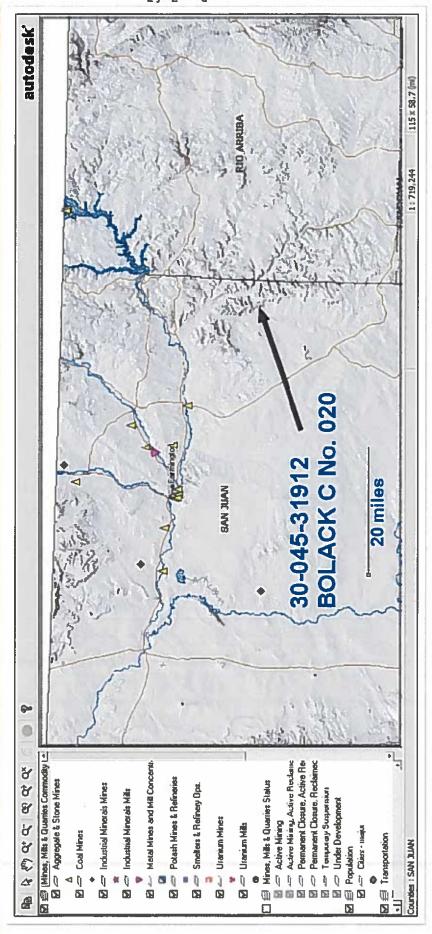
Record Count: 3

140 01.5 800C/3/8

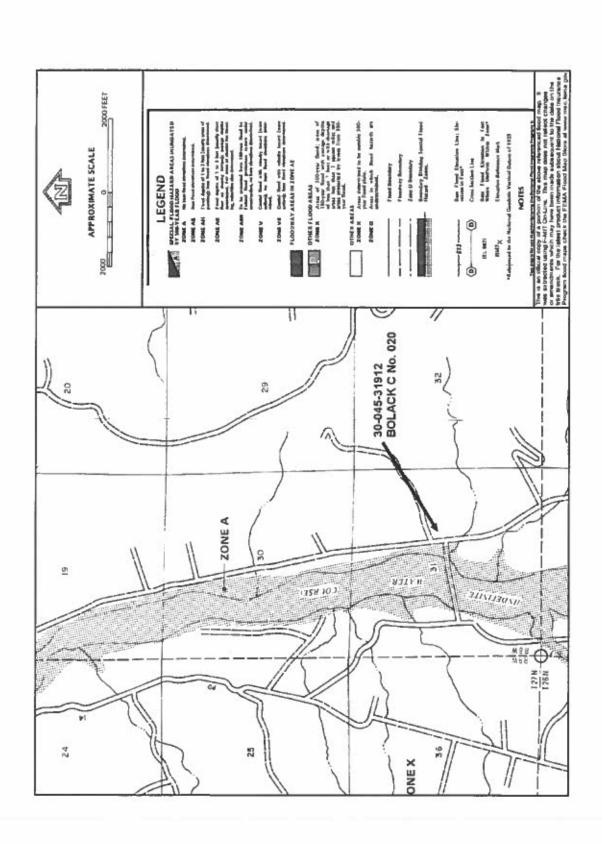




Mincs, Mills and Quarrics Web Map



Received by OCD: 4/11/2022 7:04:44 AM



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

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

General Plan

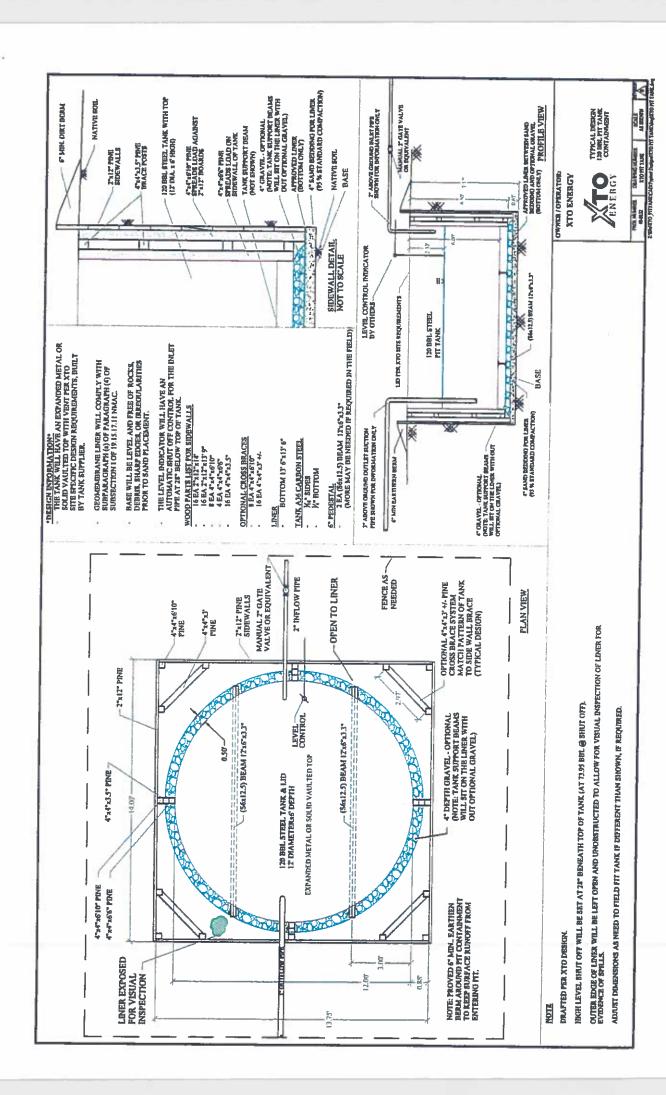
- XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade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

Released to Imaging: 8/5/2022 4:32:22 PM

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

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

- 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).
- XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).
- 11. The general specifications for design and construction are attached.



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

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

General Plan

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

Released to Imaging: 8/5/2022 4:32:22 PM

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.

	্য	MONT	ILY BELO	HLY BELOW GRADE TANK INSPECTION FORM	INSPECTIO	N FORM		
Well Name:	10.00				API No.:			
Legals	Sec:		Township:		Range:			
XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer of oil (Y/N)	Any visible signs of a tank leak (Y/N)	Freeboard Est (#)
								100
							0	
Notes:	Provide De	Provide Detailed Description:	otion:					
50					•:			
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

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

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

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

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

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area.

 Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

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

Released to Imaging: 8/5/2022 4:32:22 PM

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 97149

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97149
	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 identify the appropriate associations in the system.				
Facility or Site Name	BOLACK C 20			
Facility ID (f#), if known	Not answered.			
Facility Type	Below Grade Tank - (BGT)			
Well Name, include well number	BOLACK C 20			
Well API, if associated with a well	30-045-31912			
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.

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 (continued)

QUESTIONS, Page 2

Action 97149

Operator: HILCORP ENERGY COMPANY	0	GRID: 372171
1111 Travis Street	A	ction Number:
Houston, TX 77002		97149
	A	ction Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS		, ,
Fencing		
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	ks)	
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 s	olid vaulted top
Signs Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must hav	e their own sign in compliai	nce with Subsection C of 19.15.17.11 NMAC.)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency	Not answered.	

True

Not answered.

Not answered.

Signed in compliance with 19.15.16.8 NMAC

Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for guidance.

Requests must be submitted to the appropriate division district for consideration

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

Please check a box if one or more of the following is requested, if not leave blank:

Variances and Exceptions

consideration of approval

of approval. Exception(s):

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

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

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

Proposed Closure Method Below-grade Tank

Waste Excavation and Removal

Operator Application Certification Registered / Signature Date

Alternate Closure Method. Please specify (Variance Required)

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 3

Action	9/149

QUESTI	ONS (continued	d)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002		OGRID: 372171 Action Number: 97149 Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS		
Siting Criteria (regarding permitting)		
19.15.17.10 NMAC		
Instructions: The applicant must demonstrate compliance for each siting criteria below. Siting criteria does not apply to drying pads or above-grade tanks.	below in the appli	cation. Recommendations of acceptable source material are provided
Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Not answered.	
NM Office of the State Engineer - iWATERS database search	Not answered.	
USGS	Not answered.	
Data obtained from nearby wells	Not answered.	
Data obtained from nearby wells	Not answered.	
	Not answered.	
Data obtained from nearby wells 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.	

Below Grade Tank - (BGT)

Not answered.

Not answered.

11/25/2008

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**

ACKNOWLEDGMENTS

Action 97149

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97149
	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.

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**

CONDITIONS

Action 97149

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97149
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By	Condition	Condition Date
swells	None	8/5/2022