District 1
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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Received by OCD: 2/18/2022,10:02:00 AM

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Oil Conservation Division
1220 South St. Francis Dr.

Santa Fe, NM 87505

2006 DEC 8 PM 4 42

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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Existing BGT BGT1 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 lease 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
nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance.
1. Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name:WF Federal 29 #2
API Number: 3004530058 OCD Permit Number:
U/L or Qtr/Qtr P Section 29 Township 30N Range 14W County: San Juan
Center of Proposed Design: Latitude <u>36.780122</u> Longitude <u>108.325878</u> NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: 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: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4. Below-grade tank: Subsection of 19.15.17.11 NMAC
Volume: 95 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 _Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thicknessmil HDPE PVC Other
Little type. Thicknessinti ADPE PVC Other
s. Alternative Method:
Alternative Method: 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

<u>*************************************</u>		·
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-g	rade tanks)	
Enain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet	of a permanent residence, school, hosp	ital,
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		
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tank	s)	
☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top	•	
Monthly inspections (If netting or screening is not physically feasible)		
8.		
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 gr	iidance.	
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 consideration of approval.	e Santa Fe Environmental Bureau offic	e for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for con	sideration 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 applicant	ation. Recommendations of acceptabl	e source
material are provided below. Requests regarding changes to certain siting criteria may require admit	nistrative approval from the appropria	te district
office or may be considered an exception which must be submitted to the Santa Fe Environmental Be Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Sixt	i <i>reau office for consideration of appro</i> ng criteria does not apply to drying p	<i>vat</i> . ads or
above-grade tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from near		Yes 🛛 No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse	· 1_	Yes 🛛 No
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 tile (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	me of initial application.	NA NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the (Applies to permanent pits)	time of initial application.	Yes ☐ No NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five household	s use for dofficatic of stock	Yes 🛭 No
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification)		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered		Yes ⊠ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	. -	162 🖾 140
- Written confirmation or verification from the municipality; Written approval obtained from the	municipality	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certific	ation) of the proposed site	Yes 🛛 No
Within the area overlying a subsurface mine.		V [7] 1
Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	on 🖾	Yes 🗌 ю
Within an unstable area.	Noon Na C	Yes 🗌 🕦
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resource Society; Topographic map		4.
		Yes 🛛 100
- FEMA map		2/22/
Within a 100-year floodplain FEMA map Form C-144 Oil Conservation Division		30
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Form C-144 Oil Conservation Division	Page 2 of 5	Released to Imaging:
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II.			4
I emporary Pits, Emergency Pits, and			ecklist: Subsection B of 19.15.17.9 NMAC y a check mark in the box, that the documents are
 ⊠ Siting Criteria Compliance Demo ⊠ Design Plan - based upon the approximation 	and Emergency Pits) - based instrations - based upon the a ropriate requirements of 19.1	I upon the requirements of Paragraph ppropriate requirements of 19.1: 15.17.11 NMAC	graph (2) of Subsection B of 19.15.17.9 NMAC 5.17.10 NMAC
			MAC tte requirements of Subsection C of 19.15.17.9 NMAC
	n copy of design) API Nur	mber:	or Permit Number:
12.		5 h	11.6
Closed-loop Systems Permit Applications: Each of the following ite attached.			MAC y a check mark in the box, that the documents are
☐ Siting Criteria Compliance Demo ☐ Design Plan - based upon the app ☐ Operating and Maintenance Plan	onstrations (only for on-site or propriate requirements of 19. - based upon the appropriate	closure) - based upon the approp .15.17.11 NMAC e requirements of 19.15.17.12 NI	F Paragraph (3) of Subsection B of 19.15.17.9 priate requirements of 19.15.17.10 NMAC MAC ate requirements of Subsection C of 19.15.17.9 NMA
Previously Approved Design (attach	h copy of design) API N	Number:	
			(Applies only to closed-loop system that use
above ground steel tanks or haul-off bin	is and propose to implement	waste removal for closure)	
attached. Hydrogeologic Report - based up Siting Criteria Compliance Demo Climatological Factors Assessme Certified Engineering Design Pla Dike Protection and Structural In Leak Detection Design - based up Liner Specifications and Compati Quality Control/Quality Assurance Operating and Maintenance Plan Freeboard and Overtopping Preve Nuisance or Hazardous Odors, in Emergency Response Plan Oil Field Waste Stream Character Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the app 14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the apple Type: □ Drilling □ Workover □ En Alternative Proposed Closure Method: ☑ Waste E	on the requirements of Paragonstrations - based upon the appropriate requirements of Paragons and Installation - based upon the appropriate requirement of Plan - based upon the cluding H ₂ S, Prevention Plan rization	graph (1) of Subsection B of 19.1 appropriate requirements of 19.15.17.11 the appropriate requirements of 19.15.17.11 the appropriate requirements of bents of 19.15.17.11 NMAC pon the appropriate requirements ion Plan e requirements of 19.15.17.12 NM appropriate requirements of 19.15.17.12 NM appropriate requirements of 19.15.17.12 NM appropriate requirements of 19.10 nm	IS.17.10 NMAC NMAC 19.15.17.11 NMAC s of 19.15.17.11 NMAC MAC 15.17.11 NMAC C and 19.15.17.13 NMAC
On-site	Closure Method (Only for te	emporary pits and closed-loop sy -site Trench Burial	santa Fe Environmental Bureau for consideration)
closure plan. Please indicate, by a chec ☐ Protocols and Procedures - based ☐ Confirmation Sampling Plan (if a ☐ Disposal Facility Name and Perm	ck mark in the box, that the upon the appropriate require applicable) - based upon the apt Number (for liquids, drillipecifications - based upon the appropriate requirements	documents are attached. ements of 19.15.17.13 NMAC appropriate requirements of Subsing fluids and drill cuttings) ne appropriate requirements of Subsing Subsection 1 of 19.15.17.13 1	Subsection H of 19.15.17.13 NMAC NMAC
Form C-144	Oil	Conservation Division	Page 3 of 5

re 4 of 3.	Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facility	s That Utilize Above Ground ies for the disposal of liquids	d Steel Tanks or Haul-off Bins Only: (19.15.1 , drilling fluids and drill cuttings. Use attachmo	7.13.D NMAC) ent if more than two							
Page	Disposal Facility Name:		Disposal Facility Permit Number:								
			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 service and operations Yes (If yes, please provide the information below) No										
	Required for impacted areas which will not be used Soil Backfill and Cover Design Specifications Re-vegetation Plan - based upon the appropria	s based upon the appropria ate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 in Lof 19.15.17.13 NMAC	NMAC							
	Siting Criteria (regarding on-site closure method Instructions: Each siting criteria requires a demon provided below. Requests regarding changes to cerconsidered an exception which must be submitted the demonstrations of equivalency are required. Pleas	nstration of compliance in the rtain siting criteria may requ o the Santa Fe Environment	ire administrative approval from the approprial al Bureau office for consideration of approval.	te district office or may be							
	Ground water is less than 50 feet below the bottom of NM Office of the State Engineer - iWATER		ta obtained from nearby wells	Yes No							
	Ground water is between 50 and 100 feet below the - NM Office of the State Engineer - iWATER		ta obtained from nearby wells	☐ Yes ☐ No ☐ NA							
	Ground water is more than 100 feet below the bottor - NM Office of the State Engineer - iWATER		ta obtained from nearby wells	☐ Yes ☐ No☐ NA							
	Within 300 feet of a continuously flowing watercout lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)		gnificant watercourse or lakebed, sinkhole, or pl	aya 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										
	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										
	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										
	Within 500 feet of a wetland US Fish and Wildlife Wetland Identification	map; Topographic map; Visu	nal 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-Minin	g and Mineral Division	☐ Yes ☐ No							
	Within an unstable area. - Engineering measures incorporated into the Society; Topographic map	design; NM Burcau of Geolog	y & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No							
	Within a 100-year floodplain FEMA map			☐ Yes ☐ No							
Received by OCD: 2/18/2022 10:02:00 AW	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 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 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 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 Form C-144 Oil Conservation Division Page 4 of 5										
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hy OCD	Form C-144	Oil Conservation	Division Pag	e 4 of 5							
Received				Released							

Name (Print): Kim Champlin	Title: Environmental Representative
Signature: Kim Chamilia	Date:11/24/08
e-mail address: kim champlin@xtoenergy.com	Telephone: (505) 333-3100
o. OCD Approval: Permit Application (including closure plan)	• •
OCD Representative Signature: Victoria Venegas	Approval Date: 02/22/2022
Title: Environmental Specialist	
	lan prior to implementing any closure activities and submitting the closure rep O days of the completion of the closure activities. Please do not complete this
2.	<u> </u>
If different from approved plan, please explain.	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only
nstructions: Please indentify the facility or facilities for where the liquo wo facilities were utilized.	p Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: quids, drilling fluids and drill cuttings were disposed. Use attachment if more
	Disposal Facility Permit Number:
	Disposal Facility Permit Number:
Yes (If yes, please demonstrate compliance to the items below)	med on or in areas that will not be used for future service and operations? No
Required for impacted areas which will not be used for future service as Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	nd operations:
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 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	Longitude NAD:
Decrator Closure Certification:	s closure report is true, accurate and complete to the best of my knowledge and
elief. I also certify that the closure complies with all applicable closure	
elief. I also certify that the closure complies with all applicable closure	Title:
elief. I also certify that the closure complies with all applicable closure lame (Print): ignature:	Title: Date:
elief. I also certify that the closure complies with all applicable closure	Title: Date:

District (V

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District I PO ffnx 1986, Hubbs, NM 88241-1980 District [] PO Drawer DD, Artesia, NM #8211-0719 District III 1000 Rio Brazon Rd., Astec, NM 87410

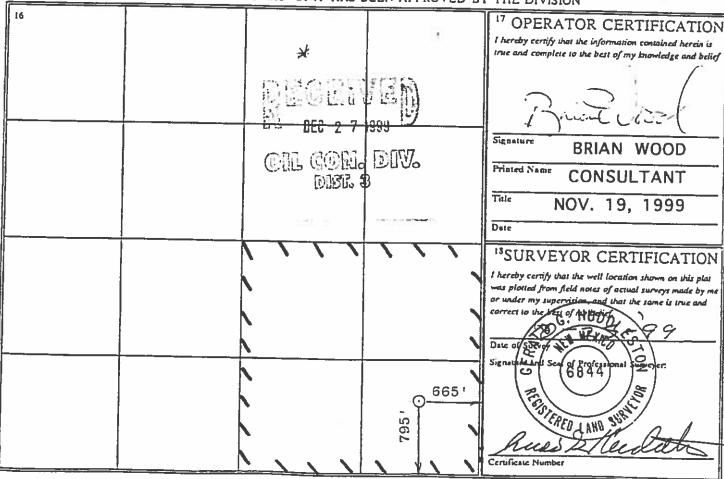
State of New Mexico Energy, Minerals & Natural Resources Department

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

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

PO Box 2008, Santa Fe, NM 87504-2088 1737 HGW 22 AM 11: 56 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ¹ Pool Cade 86620 TWIN MOUNDS PC EXT. Property Name Well Number WF Federal 2222 OCRID No. Operator Name Levelies 019219 RICHARDSON OPERATING COMPANY 5500' 10 Surface Location UL or lat no. Section Township Range Lot Ida Feet from the North/South line Feet from the En/West line County P. 29 30 N 14 W 795 South 665 East SanJuan 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Ido North/South line Feet from the East/West line County " Dedicated Acres " Joint or Infill " Consolidation Code " Order No.

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



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A		Pit Permit		Client:	XTO Energy
Lodestar Services	s, Inc.			Project:	Pit Permits
PO Bex 4465, Durange,	CO 81302	Siting Criteria		Revised:	10/26/2008
V		Information Shee	et	Prepared by:	Daniel Newman
API#:		3004530058		USPLSS:	T30N,R14W,29P
Manage Ma				1 -40	
Name:	WF	FEDERAL 29 #2		Lat/Long:	36.780122 / -108.325878
Depth to groundwater:	bet	ween 50' and 100'		Geologic formation:	Kirtland and Fruitland Formations
Distance to closest continuously flowing watercourse:	4 miles	south to the San Juan River			
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:		ast of Stevens Arroyo			
				Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No			
				Annual Precipitation:	8.08 inches average
Domestic fresh water well or spring within 500'		No		Precipitation Notes:	no significant precipatation events
Any other fresh water well or spring within 1000'		No			
Within incorporated				Attached	
municipal boundaries		No		Documents:	
Within defined municipal fresh water well field		No			Topo map, ground water data map, ariel photo, mines and quarries map, FEMA map
Wetland within 500'		No		Mining Activity:	Yes, above Navajo Mine
Within unstable area	Potential	ly - above Navajo Mine			
Within 100 year flood plain		Zone X			
Additional Notes:					

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WF FEDERAL 29 #2 Below Ground 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 situated near Coolidge Arroyo, northeast of Twin Mounds and the town of Kirtland.

The predominant geologic formation is the Fruitland Formation/Kirtland Shale of Late Cretaceous age, which underlies surface soils and is often exposed as broad shalely hills (Dane and Bachman, 1965). Deposits of Quaternary alluvial sands also occur prominently near the surface of the area, especially near streams and washes. The Fruitland Formation consists of interbedded sandy shale, carbonaceous shale, sandstone and coal units. The Kirtland Shale is divided into a lower shale member, a middle sandstone unit and an upper sandy shale member. The two formations are difficult to differentiate and are often treated together. The combined thickness of the Fruitland-Kirtland interval ranges from 100 to 2000 feet (Stone et al., 1983).

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). Aquifers within the Fruitland-Kirtland Formations are primarily limited to the Farmington Sandstone Member, which is the middle unit within the Kirtland Shale. Reported discharge from stock wells is about 10 gallons per minute (Stone et al., 1983). The aquifer supplies low yielding stock wells.

The prominent soil type at the proposed site is enitsols, which are defined as soils that exhibit little to no 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).

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

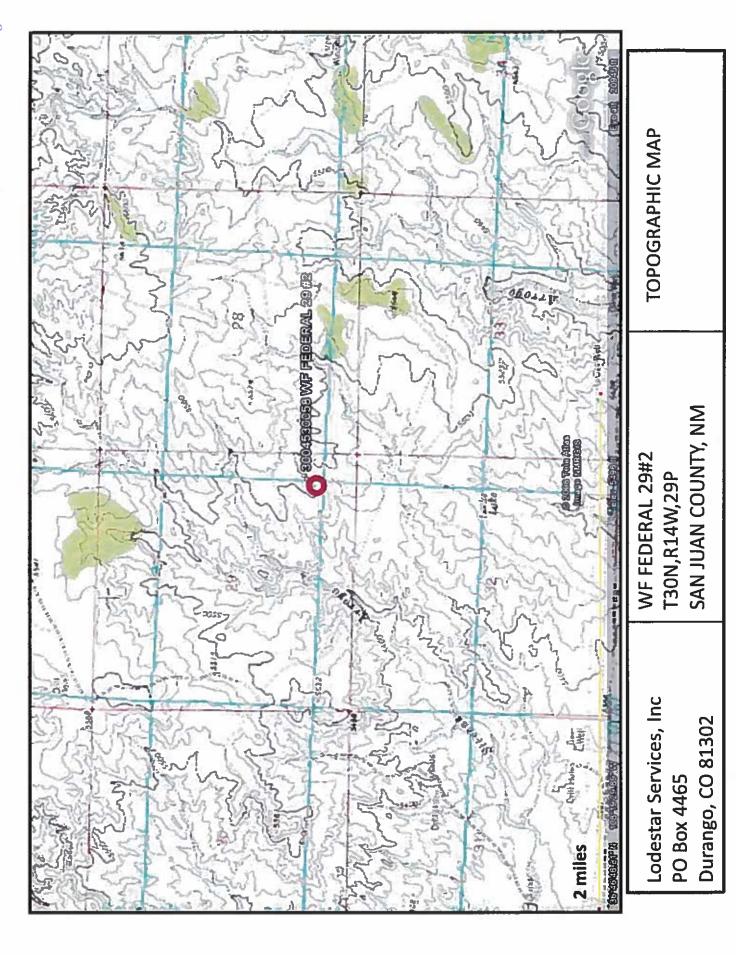
Site Specific Hydrogeology

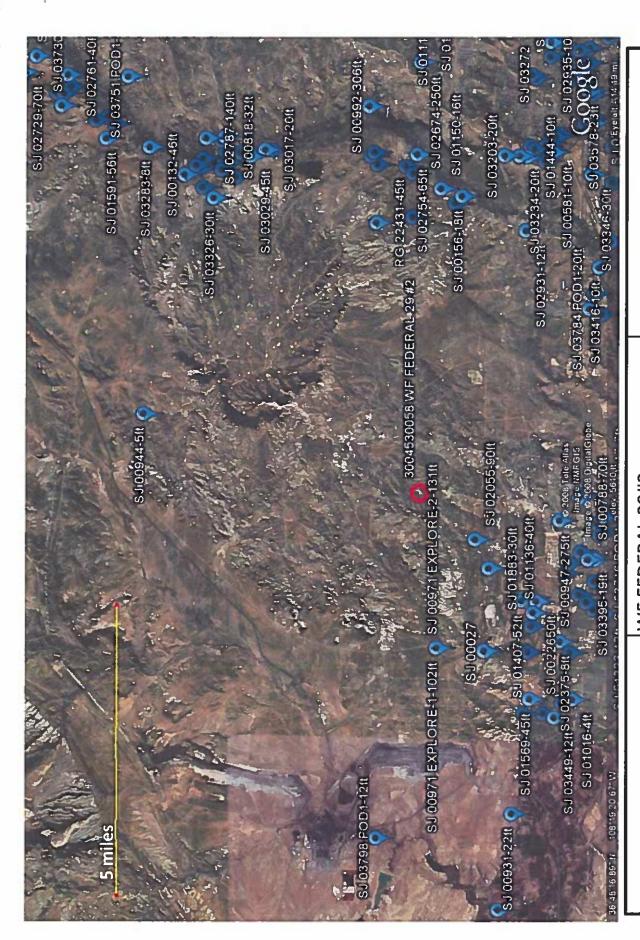
Depth to groundwater is estimated to be between 50 and 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Beds of water-yielding sandstone are primarily confined to the Farmington Sandstone Member of the Fruitland Formation, which is 20-480 feet thick (Stone et al., 1983). The site is located in a shalely unit of the Fruitland Formation, as evidenced by the relatively flat topography that is easily eroded by arroyos. The eroded surfaces of the arroyos do not expose thick sequences of sandstone outcrops, the presence of which might indicate a water-bearing unit within the immediate subsurface.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Wells located at similar elevations and distances from the San Juan River contain groundwater at depths ranging from 6 to 90 feet. The site in question is located on a relatively flat area at an elevation of approximately 5489 feet. The closest well to the proposed site sits at an elevation of approximately 5410 feet, at a distance if approximately one and a half to the southwest. This site puts groundwater at a distance of 90 feet below the ground surface.

Exposures of shale at the surface and within channel cuts of arroyos suggest groundwater is restricted to deeper sandstone units. However, proximity of the site to the San Juan River should also be considered. Groundwater data recorded from wells drilled at similar distances from the San Juan River and within comparable topographic settings is greater than 50 feet. Therefore, depth to groundwater is estimated to be between 50 and 100 feet.





Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
WF FEDERAL 29#2
T30N,R14W,29P
SAN JUAN COUNTY, NM

AL 29#2
W,29P
COUNTY, NM

i-Waters Ground Water Data Map

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

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REPORT
WATER
OF
DEPTH
AVERAGE

Feet)	Avg	30	w	oo CH	34	13	16	12	17	17	20	19	10	13	27	₩	11	II	ın	1 ĉ	10	ដ	(A)	75
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	×																		261218		261533			
	Zone		U																					
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	Rng	135	13W	13W	13W	13W	138	13W	13W	13W	133	13%	131	IBM	137	13W	13W	13W	13W	13W	13W	13W	13W	13%
	IVS	298	298	25N	29N	29N	291	NEE	298	2914	2914	252	291	29N	29N	298	25N	29N	298	25N	Z9M	29N	298	2914
	Bsn	RG		SJ	S	SJ	SJ	SJ	ຮູງ	ญป	SG	SS CJ	รร	S D	ജവ	SC	SJ	SJ	SJ	SJ	SJ	SJ	S	SJ

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10/21
REPORT
WATER
OF
DEPTH
AVERAGE

Feet)	Avg	06	41	망 (기	132	130	7	טו	13	17
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(Depth	Min	O Gr	30	w	20	20	47	w	ന	7
	Wells	П	CI.	w	ന	1	61	-	7	(D
	¥					2086850		2085641		
	×					259584		259540		
	Zone									
	Sec	50	90	07	99	잌	13	13	17	18
	Rng	14W	148	14W	14W	14W	14W	14W	N#T	14W
	INS	M62	N60	29M	291	29M	2914	25M	25N	29M
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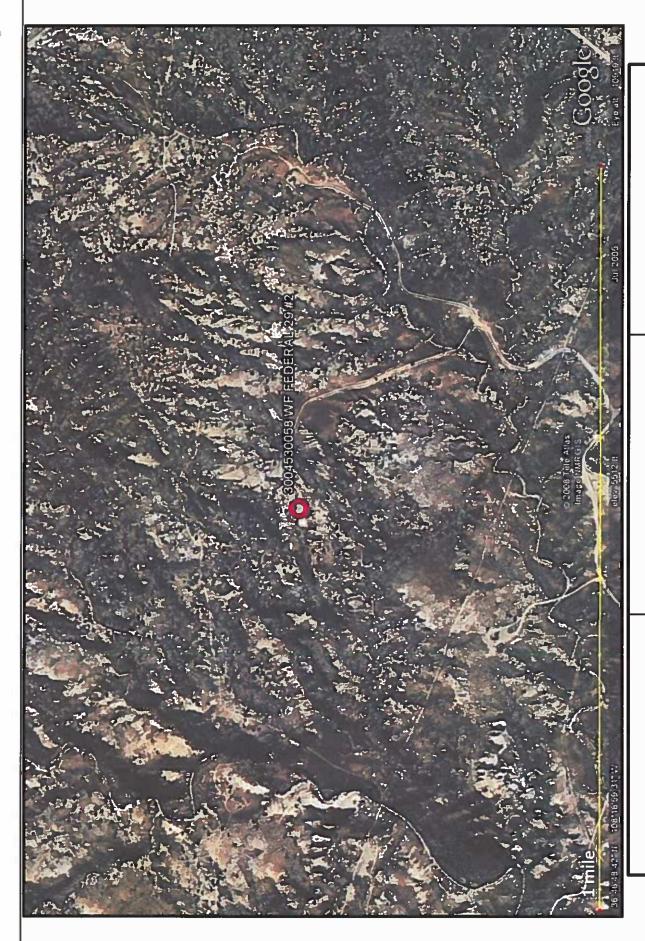
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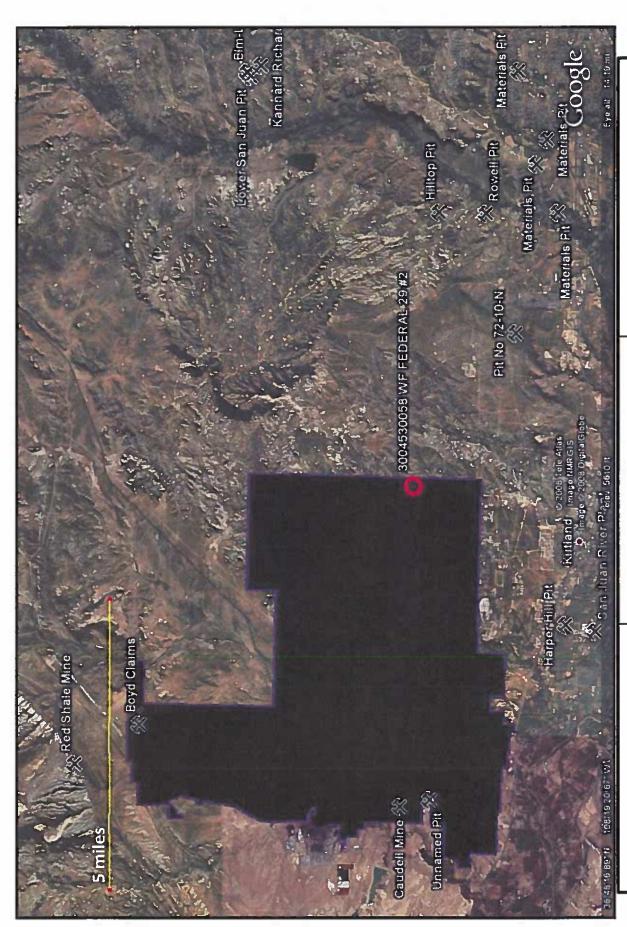
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AERIAL PHOTOGRAPH

Lodestar Services, Inc PO Box 4465 Durango, CO 81302

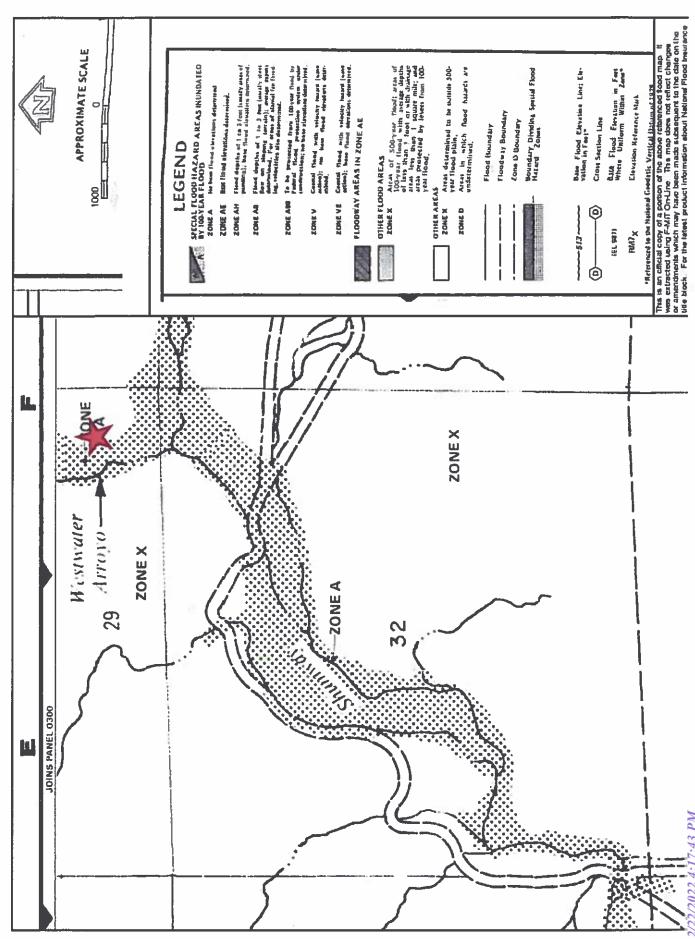
WF FEDERAL 29#2 T30N,R14W,29P SAN JUAN COUNTY, NM



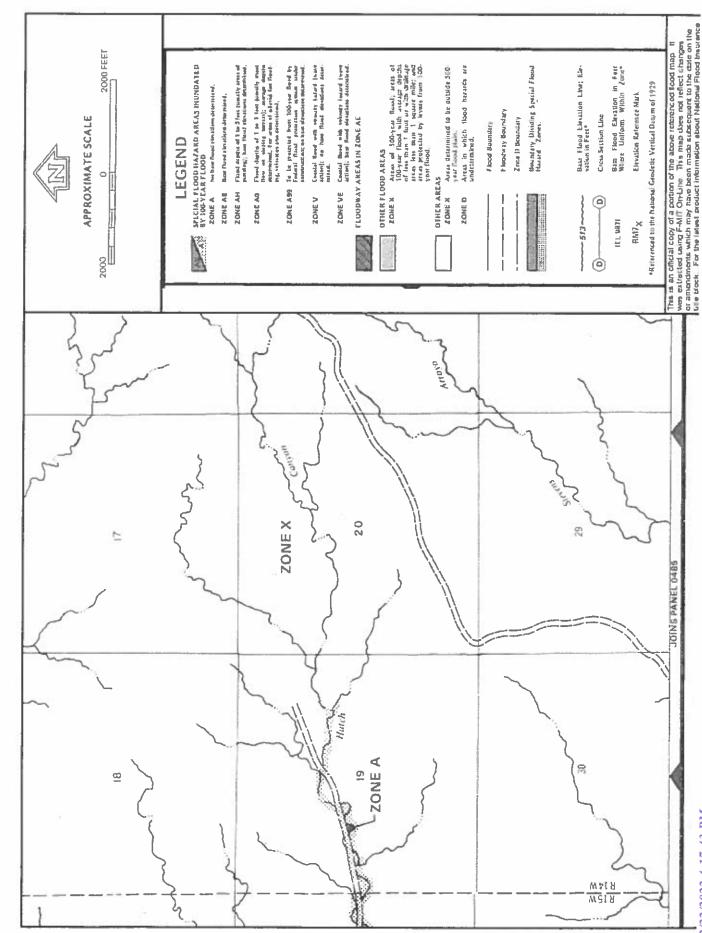
Lodestar Services, Inc PO Box 4465 Durango, CO 81302

WF FEDERAL 29#2 T30N,R14W,29P SAN JUAN COUNTY, NM

Mines and Quarries Map



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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 1/4 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.
- XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on 4. the top of the below-grade tank.
- XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade 5. tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and \(\sigma^{\text{"}}\) bottom. (See attached drawing).
- The below-grade tank system will have a properly constructed foundation consisting of a level 6. 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

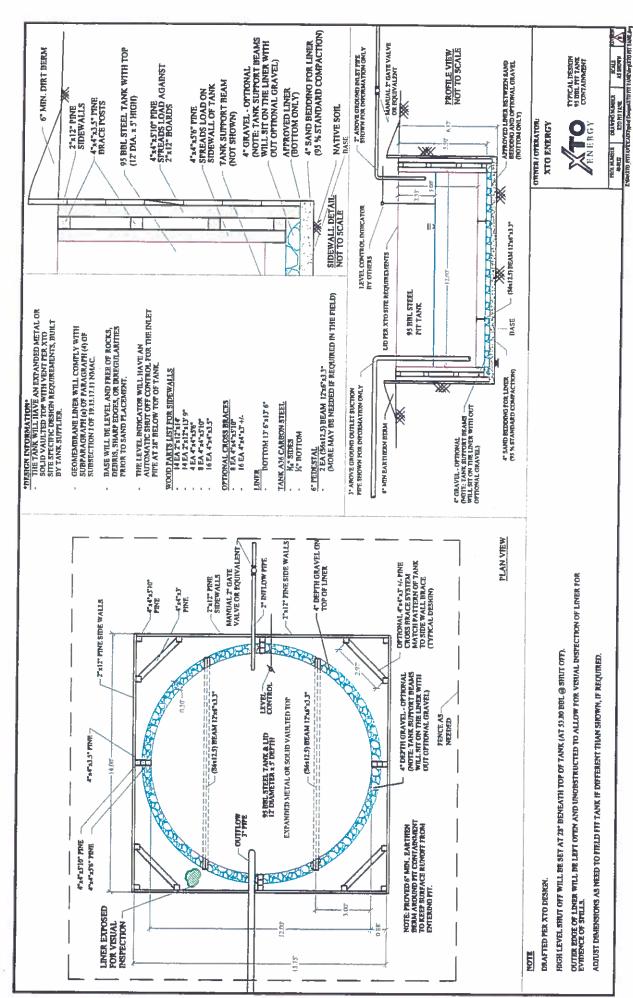
> bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

- 9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).
- .01 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 hydrautic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).

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

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

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

General Plan

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

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

Visible layer of oil Visible signs of tank leak

Estimated freeboard

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

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

notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan.

		MONT	1LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTION	N FORM		
Well Name:					API No.:			
Legais	Sec:		Township:		Range:			
XTO Inspector's Name	Inspection	Inspection	Any visible finer tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer	Any visible signs	Freeboard
							of a tally leak (1714)	ESt. (III)
Notes:	Provide De	Provide Detailed Description:	otion:					
10								
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.
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

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

Soil contaminated by exempt petroleum hydrocarbons

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

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 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.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

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

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

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

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - Proof of closure notice to division and surface owner;
 - ii. Details on capping and covering, where applicable;
 - iii. Inspection reports,
 - 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 82620

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	82620
	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 informa	ation will help us identify the appropriate associations in the system.
Facility or Site Name	WF Federal 29 2
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	WF Federal 29 2
Well API, if associated with a well	3004530058
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	120
Type of Fluid	Produced Water
Pit / Tank Construction Material	Steel
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	True
Tank installed prior to June 18. 2008	Not answered.
Other, Visible Notation. Please specify	visible sidewalls, vaulted, automatic high level shut off, no liner
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

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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	82620

QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171 Action Number: 82620 Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS	
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	s)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' hogwire
Netting Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered. Not answered.
Other, Netting. Please specify (Variance May Be Needed)	expanded metal or solid vaulted top
Signs Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have	their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for grant and the second sec	guidance.
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

<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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1111 Travis Street

Houston, TX 77002

HILCORP ENERGY COMPANY

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 82620

QUESTIONS (continued)	Í.
	OGRID: 372171
	Action Number:

82620

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

Operator:

•	QUESTIONS
	Siting Criteria (regarding permitting)
ı	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	Not answered.	
USGS	Not answered.	
Data obtained from nearby wells	Not answered.	

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	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	True
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	11/24/2008

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

ACKNOWLEDGMENTS

Action 82620

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	82620
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 82620

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	82620
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	2/22/2022