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

Form C-14 July 21, 200

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 (Affice)

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

Type of action: Existing BGT Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loo below-grade tank, or proposed alternative method	d
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternat	ve request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regular	water or the
Operator: XTO Energy, Inc. OGRID #: 5380	
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name:DAWSON FEDERAL #001M	
API Number: 30-045-24791 OCD Permit Number:	
U/L or Qtr/Qtr N Section 26 Township 27N Range 08W County: San Juan	
Center of Proposed Design: Latitude36.539300 Longitude107.655750 NAD: ☐1927 ☒ 1983	
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
2. Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A	
☐ Lined ☐ Unlined Liner type: 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 per intent)	mit or notice of
☐ 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. Subsection I of 19.15.17.11 NMAC	
Volume: 120bbl Type of fluid: Produced Water	4
Tank Construction material: Steel	.24
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	9:57:
Visible sidewalls and liner Visible sidewalls only Other Visible sidewalls, vaulted, automatic high-level shut off, no liner	
Liner type: Thicknessmil	
N5.	7/22
Alternative Method:	.61
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	n of approval.
Form C-144 Oil Conservation Division Page 1 of 5	d to Im

\$ of 30			
Fencing: Subsection D of 19.15.17.11 NMAC (Appliance Chain link, six feet in height, two strands of barbed institution or church) Four foot height, four strands of barbed wire even! Alternate. Please specify Four foot height, steel means the strands of barbed wire even!	d wire at top (Required if located within 1000 feet of y spaced between one and four feet		hospital,
7. Netting: Subsection E of 19.15.17.11 NMAC (Applie) Screen Netting Other Expanded metal or Monthly inspections (If netting or screening is not	solid vaulted top		
a. Signs: Subsection C of 19.15.17.11 NMAC □ 12"x 24", 2" lettering, providing Operator's name, Signed in compliance with 19.15.3.103 NMAC	site location, and emergency telephone numbers		
consideration of approval.		Santa Fe Environmental Bureau	office for
Siting Criteria (regarding permitting): 19.15.17.10 Instructions: The applicant must demonstrate compi material are provided below. Requests regarding cha office or may be considered an exception which must Applicant must attach justification for request. Pleas above-grade tanks associated with a closed-loop sys	liance for each siting criteria below in the applicati inges to certain siting criteria may require adminis be submitted to the Santa Fe Environmental Bure se refer to 19.15.17.10 NMAC for guidance. Siting	trative approval from the appro au office for consideration of a	priate district pproval.
Ground water is less than 50 feet below the bottom of - NM Office of the State Engineer - iWATERS	the temporary pit, permanent pit, or below-grade tar database search; USGS; Data obtained from nearby	ık. wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)		lakebed, sinkhole, or playa	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, h (Applies to temporary, emergency, or cavitation pits at - Visual inspection (certification) of the propose	nd below-grade tanks)	e of initial application.	☐ Yes ⊠ No ☐ NA
Within 1000 feet from a permanent residence, school, (Applies to permanent pits) - Visual inspection (certification) of the propose	hospital, institution, or church in existence at the tin	ne of initial application.	☐ Yes ☐ No 図 NA
Within 500 horizontal feet of a private, domestic fresh watering purposes, or within 1000 horizontal feet of an	water well or spring that less than five households	e time of initial application.	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a adopted pursuant to NMSA 1978, Section 3-27-3, as at a Written confirmation or verification from the r	defined municipal fresh water well field covered un- mended, nunicipality; Written approval obtained from the mu	-	☐ Yes 🛭 No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification m	nap; Topographic map; Visual inspection (certificati	on) of the proposed site	☐ Yes ⊠ 💥
Within the area overlying a subsurface mine.	om the NM EMNRD-Mining and Mineral Division	, ,	☐ Yes 🛛 🎇
Within an unstable area.	sign; NM Bureau of Geology & Mineral Resources;	USGS; NM Geological	☐ Yes ⊠ 15000
Within a 100-year floodplain FEMA map		_	☐ Yes ⊠ 1
0000:			magin
Received by OCD: Form C-144	Oil Conservation Division	Page 2 of 5	Released to Imaging:
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of 39			
Instructions: Ea attached. Hydrogeole Siting Crite Design Pla Operating a	ogic Report (Below-grade Tanks) - based upogic Data (Temporary and Emergency Pits) eria Compliance Demonstrations - based upon - based upon - based upon the appropriate requirements and Maintenance Plan - based upon the appropriate (Please complete Boxes 14 through 18, if	pon the requirements of Paragraph (4) of Su - based upon the requirements of Paragraph on the appropriate requirements of 19.15.17 of 19.15.17.11 NMAC ropriate requirements of 19.15.17.12 NMAC	bsection B of 19.15.17.9 NMAC 1(2) of Subsection B of 19.15.17.9 NMAC 1(10) NMAC
☐ Previously A	pproved Design (attach copy of design)	API Number:	or Permit Number:
Instructions: Ea attached. Geologic a Siting Crit Design Pla Operating	ach of the following items must be attached and Hydrogeologic Data (only for on-site cleeria Compliance Demonstrations (only for on-based upon the appropriate requirement and Maintenance Plan - based upon the appan (Please complete Boxes 14 through 18, i	osure) - based upon the requirements of Para on-site closure) - based upon the appropriate s of 19.15.17.11 NMAC ropriate requirements of 19.15.17.12 NMA(heck mark in the box, that the documents are agraph (3) of Subsection B of 19.15.17.9 requirements of 19.15.17.10 NMAC
☐ Previously A	pproved Design (attach copy of design)	API Number:	_
1	pproved Operating and Maintenance Plan el tanks or haul-off bins and propose to imp		_ (Applies only to closed-loop system that use
Climatolog Certified E Dike Prote Leak Detec Liner Spec Quality Co Operating Freeboard Nuisance of Emergency Oil Field V Monitoring Erosion Co Closure Pla	gical Factors Assessment ingineering Design Plans - based upon the a ction and Structural Integrity Design - based upon the appropriate relifications and Compatibility Assessment - bentrol/Quality Assurance Construction and I and Maintenance Plan - based upon the appand Overtopping Prevention Plan - based upor Hazardous Odors, including H ₂ S, Prevent Response Plan Vaste Stream Characterization and Inspection Plan	pased upon the appropriate requirements of I installation Plan ropriate requirements of 19,15,17,12 NMAC oon the appropriate requirements of 19,15,1	IAC 5.17.11 NMAC 19.15.17.11 NMAC C 7.11 NMAC
Proposed Closur Instructions: Ple	e: 19.15.17.13 NMAC use complete the applicable boxes, Boxes	l4 through 18, in regards to the proposed c	closure plan.
Type: Drilling	g	val p systems only) ly for temporary pits and closed-loop system On-site Trench Burial	w-grade Tank Closed-loop System
iclosure plan. Ple Protocols a Confirmati Disposal Fa Soil Backfi Re-vegetati	nder indicate, by a check mark in the box, to and Procedures - based upon the appropriate on Sampling Plan (if applicable) - based upon the liquid acility Name and Permit Number (for liquid ll and Cover Design Specifications - based ion Plan - based upon the appropriate requirements.	hat the documents are attached. requirements of 19.15.17.13 NMAC on the appropriate requirements of Subsection	ction H of 19.15.17.13 NMAC
ved by Ot	Form C-144	Oil Conservation Division	Page 3 of 5 Page 3 of 5
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62 60		
16. Waste Removal Closure For Closed-loop Systems TI Instructions: Please indentify the facility or facilities facilities are required.	hat Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	.D NMAC) f more than two
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:		
	s and associated activities occur on or in areas that will not be used for future se	
Re-vegetation Plan - based upon the appropriate :	 based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA 	AC
provided below. Requests regarding changes to certain	ration of compliance in the closure plan. Recommendations of acceptable sou In siting criteria may require administrative approval from the appropriate dis The Santa Fe Environmental Bureau office for consideration of approval. Jus	strict office or may be
Ground water is less than 50 feet below the bottom of the NM Office of the State Engineer - iWATERS d	ne buried waste. latabase search; USGS; Data obtained from nearby wells	Yes No
	atabase search; USGS; Data obtained from nearby wells	Yes No
	atabase search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)	or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa on) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, howard Visual inspection (certification) of the proposed	spital, institution, or church in existence at the time of initial application. I site; Aerial photo; Satellite image	☐ Yes ☐ No
watering purposes, or within 1000 horizontal feet of any	water well or spring that less than five households use for domestic or stock y other fresh water well or spring, in existence at the time of initial application. atabase; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as am	efined municipal fresh water well field covered under a municipal ordinance nended. sunicipality; Written approval obtained from the municipality	Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification ma	ap; 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	m the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the desi Society; Topographic map	ign; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
by a check mark in the box, that the documents are atta Siting Criteria Compliance Demonstrations - base Proof of Surface Owner Notice - based upon the a Construction/Design Plan of Burial Trench (if ap Construction/Design Plan of Temporary Pit (for in Protocols and Procedures - based upon the appropriate of Confirmation Sampling Plan (if applicable) - based Waste Material Sampling Plan - based upon the ap Disposal Facility Name and Permit Number (for I Soil Cover Design - based upon the appropriate re Re-vegetation Plan - based upon the appropriate re	ed upon the appropriate requirements of 19.15.17.10 NMAC appropriate requirements of Subsection F of 19.15.17.13 NMAC splicable) based upon the appropriate requirements of 19.15.17.11 NMAC n-place burial of a drying pad) - based upon the appropriate requirements of 19	.15.17.11 NMAC 22:6 22
Form C-144	Oil Conservation Division Page 4 o	sed to Imagi
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19. Operator Application Certification:		
I hereby certify that the information submitted with this application is t	rue, accurate and complete to t	he best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	11/17/08
e-mail address: kim_champlin@xtoenergy.com		(505) 333-3100
20. OCD Approval: Permit Application (including closure plan)	Classes Black (auto) OCE	
	-	,
OCD Representative Signature: Victoria Venegas Title: Environmental Specialist		
	OCD Permit Num	ber:DG11
Closure Report (required within 60 days of closure completion): S Instructions: Operators are required to obtain an approved closure pl The closure report is required to be submitted to the division within 66 section of the form until an approved closure plan has been obtained to	lan prior to implementing any Odays of the completion of the and the closure activities have	closure activities and submitting the closure report.
22.		pietion Date.
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method	Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the lig two facilities were utilized.	Systems That Utilize Above quids, drilling fluids and drill	Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more that
Disposal Facility Name:	Disposal Facility P	Permit Number:
Disposal Facility Name:	Disposal Facility P	ermit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)	med on or in areas that will not No	be used for future service and operations?
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:	
Closure Report Attachment Checklist: Instructions: Each of the formark 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		d to the closure report. Please indicate, by a check NAD: 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	s closure report is true, accurate e requirements and conditions	e and complete to the best of my knowledge and specified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	22 9
e-mail address:	Telephone:	22/20
e-mail address:	nservation Division	
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STATE OF NEW MEXICO EHERGY MO MINERALS DEPARTMENT

OIL CONSERVATION DIVISION 1: 0. UOX 2018 SANTA FE, NEW MEXICO 87501

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perator		Legee		Well No.
TENNECO OIL COMPANY		DAWSON-FEDERAL	<u> </u>	1M
1 4	Township	Range	County	
N 26	27N	8W	San Juan	
ctual Factage Location of Wells				-
790 feet from the Sou	*****		t from the West	tine
ound Level Elev: Producing Form		Pool	14	Dedicated Acreage:
	MESAVERDE		MESAVERDE	320 Acres
 Outline the acreage dedicate If more than one lease is a interest and royalty). 	·			
3. If more than one lease of did dated by communitization, un Yes No If and If answer is "no," list the o	sitization, force-pool	ing. etc?		
this form if necessary.) No allowable will be assigned forced-pooling, or otherwise) assign.	d to the well until al	l interests have been	consolidated (by con	nmunitization, unitization
		ĺ		CERTIFICATION
 		EEC 1 9 199	tained hi	certify that the information con orall is true and complete to the my knowledge and belief. A. Mishler
 		The Contract Sur	Position	r. Production Analy
l I Sec		6	Company	enneco Oil Company
		1		ecember 11, 1980
t 1 1 1	26		atiques or species of whiteey my	cartify that the well location this plat was platted from fiel actual surveys made by me a supervision, and that the same and correct to the best of m
1520'			Date Surve Octob Registere	1.0
Scale	a: 1=-1000'	1	Fred Certificate 3950	No.

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A		Dia D. In		Client:	XTO Energy
Lodestar Servic	es, Inc.	Pit Permit		Project:	
PO Box 4465, Duran	go, CO 81302	Siting Criteria		Revised:	13-Sep-08
l V		Information She	et	Prepared by:	Trevor Ycas
API#:		30-045-24791		USPLSS:	27N 08W 26 N
Name:	DAWSON	FEDERAL No. 001M		Lat/Long:	36.539300°, -107.655750°
Depth to groundwater:		depth>100'		Geologic formation:	Ean lose Formation/Tail
Distance to closest continuously flowing watercourse:		NW to 'San Juan River'		Site Elevation: 2028m/6654	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	3930'	NE to 'Largo Wash'			
				Soil Type:	Rockland/ Aridisols
Permanent residence, school, hospital, institution or church within 300'	_	NO			
				Annual Precipitation:	Navajo Dam: 12.95", Governador: 11.98", Capulin Rgr Stn.: 14.98", Otis: 10.41"
Domestic fresh water well or spring within 500'		NO		Precipitation Notes:	
Any other fresh water well or spring within 1000'	·	NO			
Within incorporated municipal boundaries		NO		Attached Documents:	26N06W_IWaters.pdf, 26N07W_IWaters.pdf, 26N08W_IWaters.pdf, 27N07W_IWaters.pdf, 27N08W_Iwaters.pdf, 27N09W_Iwaters.pdf, 28N07W_IWaters.pdf, 28N08W_IWaters.pdf, 28N09W_IWaters.pdf
Within defined municipal fresh water well field		NO		FM3500640750B-30- 045-24791.jpg	30-045-24791_gEarth-PLS.jpg, 30-045-24791_topo- PLS.jpg, 30-045-24791_gEarth-iWaters.jpg
Wetland within 500'		NO		Mining Activity:	None Near
Within unstable area		NO			NM_NRD-MMD_MinesMillQuarries_30-045-24791.jpg
Within 100 year flood plain	No	-FEMA Zone 'X'			
Additional Notes:					
drains to Largo Canyon					atop Blanco Mesa, overlooking Largo Canyon
145 <u>172</u>		Name and American			

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Dawson Federal #1M 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 west-central Largo Canyon region of the San Juan Basin, atop Blanco Mesa between Onofre Jaquez Canyon & Cottonwood 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 wells 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 exhibiting 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.

Regional weather further prohibit active recharge. The climate 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).

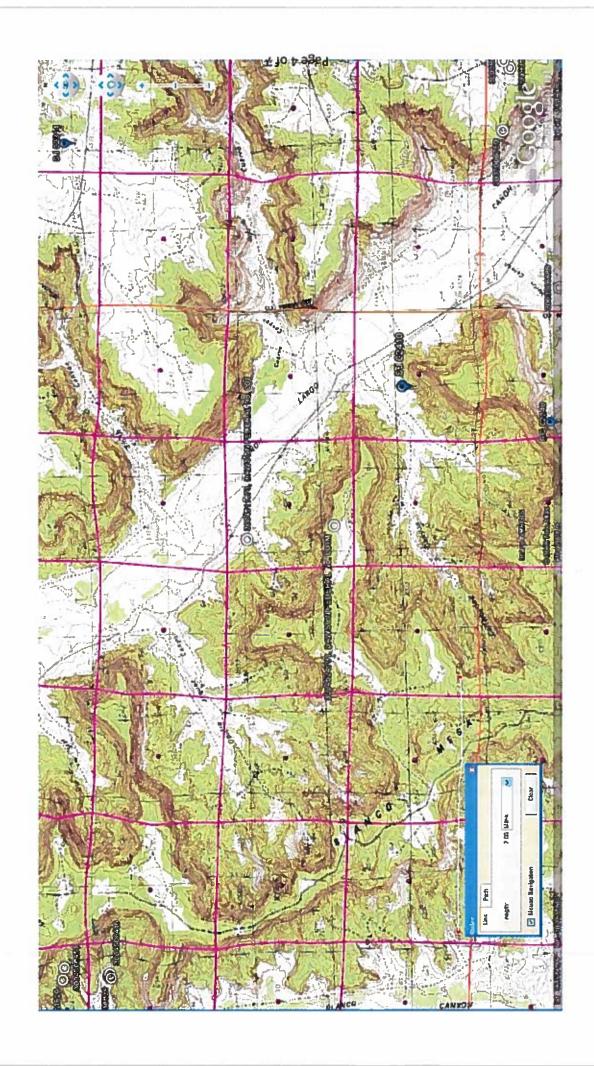
Site Specific Hydrogeology

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

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

The site in question is located west above Largo Canyon on a relatively flat mesa-top, at an elevation of approximately 6650 feet and approximately 3930 feet southwest of Largo Canyon. This site drains to Largo Canyon, the nearest significant watercourse. 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 Largo and Blanco Canyons and within major tributary systems.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 1 mile east-southeast (SJ02410). Other 'nearby' iWaters wells are located 2 miles southeast (RG62248) and 3.4 miles north-east (SJ02314). Wells located at similar elevations along Largo Canyon contain groundwater at depths of 180 feet and deeper. However the exact topography and elevation relative to the nearest tributary (over four hundred feet higher) suggests that groundwater is deeper than 100 feet. A map showing the location of wells in reference to the proposed pit location is attached.





New Mexico Office of the State Engineer POD Reports and Downloads

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Sections:	Zone:			Depth to Water F	IWATERS Menu
Range: 08W	Y:-	Basin:	(Last)	POD / Surface Data Report Avg Depth to Water Report	Clear Form
Township: 29N	NAD27 X:	County: Ba	Owner Name: (First)	POD / Surface I	

WATER COLUMN REPORT 08/11/2008

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Š	quarters	are	bigg	lest t	o smaller	st)		Depth	Depth	Water	(in feet)
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	N62	08W C	9 3					1624	200	1124	
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	29N	08W 1	.8 1					591	7.0	521	
	29N	08W 1	8 2	3 2				009			
	29N	08W 2	1 2					502			
	29N	08W 2	11 3					909	406	200	
	29N	08W 2	13					909	406	200	
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New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Range: 07W Sections:	NAD27 X: Zone: Zone: Search Radius:	County: Basin: Suffix:	Owner Name: (First) (Last) Owner Domestic Obomestic Ohl	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
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WATER COLUMN REPORT 08/11/2008

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SJ 02636			05	3 1	2				300	200	100		
SJ 03453			05	1	4				355	20	335		
SJ 00541			90	1 4	4				360	360			
SJ 00807		07W (90	2.4					290	255	35		
SJ 01199	29N		60	3	4				265	125	140		
SJ 03390			13	1 2	4				320	120	200		
SJ 00053	29N		13	<u>~</u>					536	460	76		
SJ 01228	29N	- •	23	7					285	205	80		
SJ 02891	_	7W.	24	3	7				210	160	50		
SJ 03391			24	3	2				210				
SJ 03573	_	. M/C	24	4	-				900				
SJ 01112	_		28 2	4	4				2453	006	1553		
SJ 00039	29N (. W.C	29	~					585	435	150		

New Mexico Office of the State Engineer POD Reports and Downloads

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Range: 09W	Y:		(Last)	Report Avg D	Clear Form
Township: 28N	7 X:	Basin:	irst)	OD / Surface Data	
To	NAD27	County:	Owner Name: (Fi	<u>a</u>	

WATER COLUMN REPORT 08/06/2008

	(quarters	are		ZINE	3=SW 4=	SE)							
	(quarters	are	bigg	est t	o smalle	st)				Water	(in	(in feet)	
POD Number	Tws Rng Sec q q q Zone	Rng 8	Sec q	p.	Zone	×	,	Well	Water	Column		Á	
SJ 03746 POD1	28N	39W 2	20 1	2 3						150			
SJ 00018	28N	39W 2	20 3	1.4						64			
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New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 08/04/2008

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SJ 00163 S	28N	08W 1	18 4	4					1450	800	650		
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New Mexico Office of the State Engineer POD Reports and Downloads

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7W Sections:	Zone:		(Last)	Avg Depth to Water Re	orm IWATERS Menu
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WATER COLUMN REPORT 08/11/2008

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SJ 03116	28N (7W 2	1	3	m					86	20	78			

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27N Range: 199W Sections: NAD27 X.	POD / SURFACE DATA REPORT 08/12/2008
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Depth Dept Well Water

Finish Date

UTH zee in Meters) Start UTH_Zone Easting Northing Date

(quarters are leVM 2=NE 3=SN 4=SE) (quarters are biggest to smallest XY are in Feet Source Twe Rng Sec q q q Zone X

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(acre ft per annum) Use Diversion Owner

No Records found, try again

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New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 08/04/2008

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New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 08/04/2008

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New Mexico Office of the State Engineer POD Reports and Downloads

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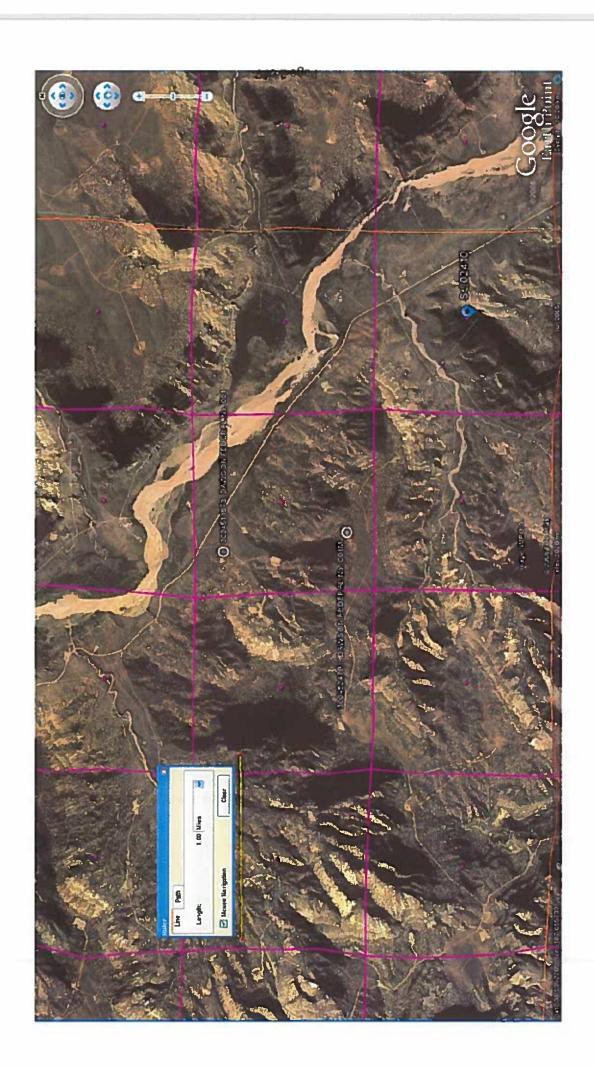
New Mexico Office of the State Engineer POD Reports and Downloads

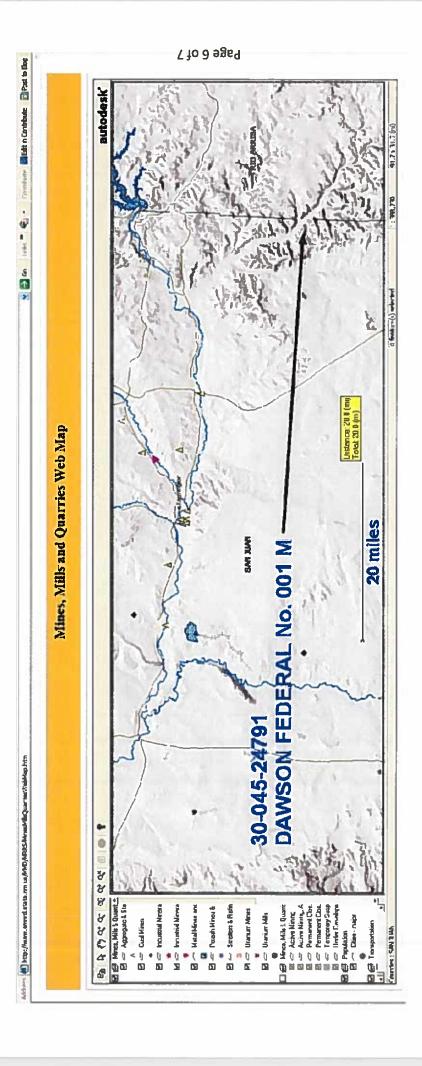
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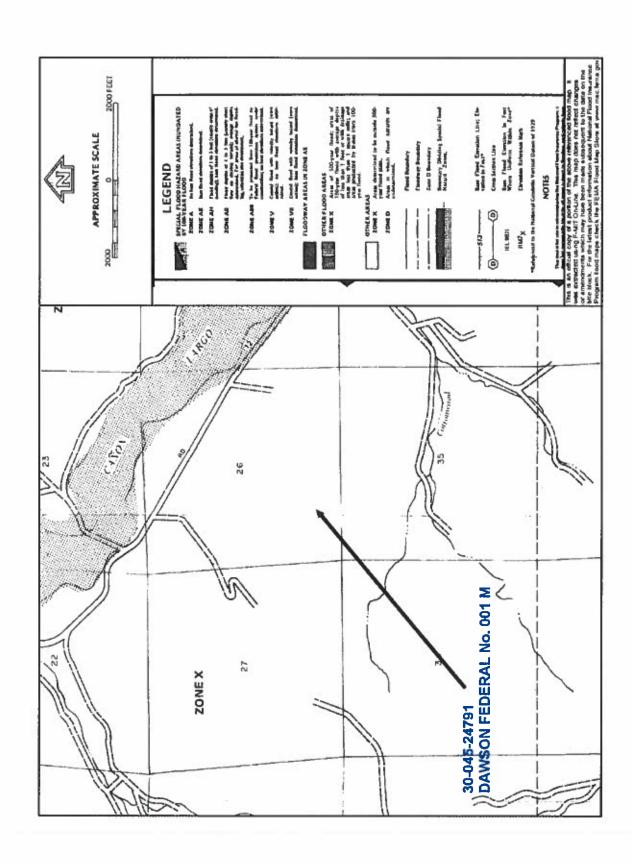
WATER COLUMN REPORT 08/08/2008

	(quarte	rs a	re l		2=NE	1=NW 2=NE 3=SW 4=SE)	_							
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SJ 00785 NEW	29N	108	¥ 13	4						09	20	40		
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SJ 01474	29N	101	21	4 4					25		
SJ 03180	29N	10W	21	4 4	4				20	15	35
SJ 03713 POD1	29N	101	22	2 3					265	20	245
SJ 02820	29N	10W	23	4 1	r=1				82	16	99
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SJ 02802	29N	101	24	3.1	2				132	30	102
SJ 02907	29N	10W	24	3 2	ന				09		
SJ 02122	29N	101	25	4.1					09	12	48
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SJ 01056	29N	100	27	3 2					20	31	19
SJ 02216	29N		28	1 2					30	7	23
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SJ 03777 POD1	29N		29	4	7		270344	2071311	100	50	50
SJ 00473	29N		30	2 4					58	10	48
SJ 03743 POD1	29N	10W	33	4 4	ᠻ				490	140	350
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SJ 01050	29N	10W	36	1 4					85	38	47







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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.

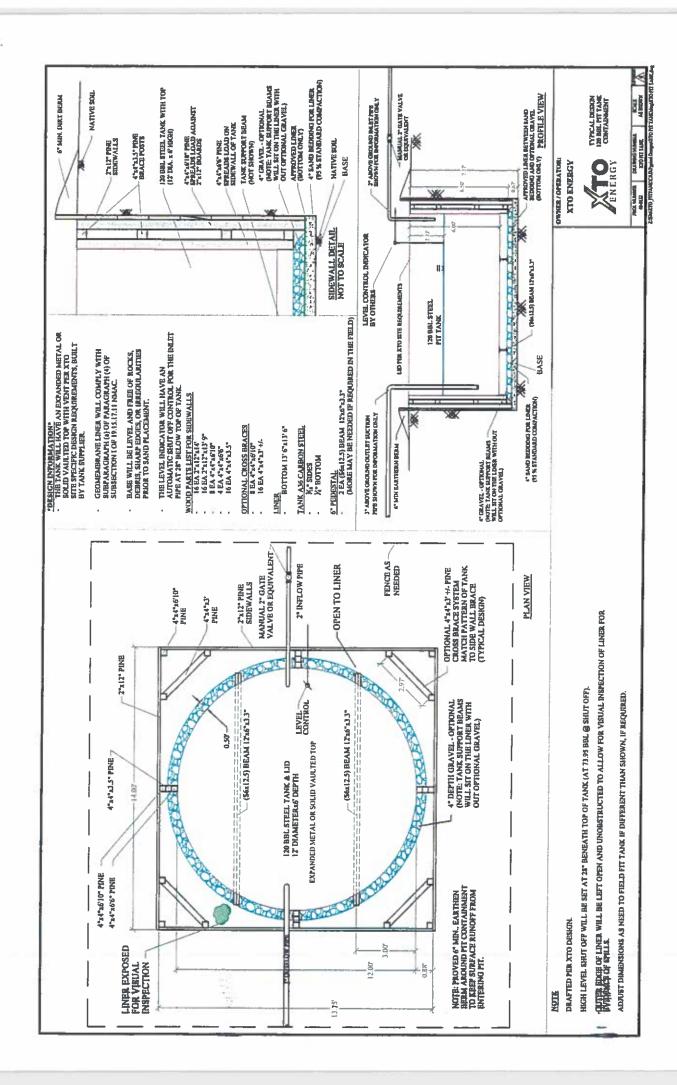
General Plan

- 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 ½ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and \(\frac{1}{2} \)" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

bottom will be elevated a minimum of 6" above the underlying ground surface and the 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).
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).
- 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

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

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

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

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

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

		MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTION	N FORM		
Well Name:	đ				API No.:			
Legals	Sec:		Township:		Range:			
XTO			Any visible		Collection of			
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Freeboard Est. (ft)
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						:		
				:				
Notes:	Provide Def	Provide Detailed Description:	tion:					
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	•				:	:		
MISC:	•							
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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

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

General Plan

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
Soil contaminated by exempt petroleum hydrocarbons
Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

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

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

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

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

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

- 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.

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

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

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viii. Photo documentation of the site reclamation.

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 95957

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	95957
	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 in	lentify the appropriate associations in the system.
Facility or Site Name	DAWSON FEDERAL 1M
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	DAWSON FEDERAL 1M
Well API, if associated with a well	30-045-24791
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	No
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	120
Type of Fluid	Produced Water
Pit / Tank Construction Material	Steel
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	Not answered.
Tank installed prior to June 18. 2008	True
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

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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 95957

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:
QUESTIONS	[,,
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	(s)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' steel mesh
h	
Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen	
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	e their own sign in compliance with Subsection C of 19.15 17 11 NMAC)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s):	

Not answered.

consideration of approval

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

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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 3

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

Action 95957

QUESTIONS (continued)	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	95957
	Action Type:

QUESTIONS

Siting Criteria (regarding permitting)	
19.15.17.10 NMAC	

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	No
NM Office of the State Engineer - iWATERS database search	True
USGS	Not answered.
Data obtained from nearby wells	Not answered.

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No

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

Operator Application Certification	
Registered / Signature Date	11/17/2008

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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 95957

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	95957
	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 95957

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	95957
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	7/22/2022