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

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

1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOGD 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, Cl	osed-Loop	System, B	elow-G	rade Tank,	or		
		Propo	sed Alter	native Me	thod Permi	t or Clos	sure Plan A	Application		
	BGT1	Type of action: Existing BGT below-grade tan	Closure Modific	of a pit, close cation to an ex plan only sub	d-loop system, isting permit mitted for an e	below-grad	le tank, or prop	sed alternative mosed alternative permitted pit, close	method	em,
	Instructio	ns: Please submi	t one applicati	ion (Form C-14	4) per individual	pit, closed-l	loop system, belo	w-grade tank or a	lternative req	uest
	Please be advised the environment. Nor do									
	operator: XTO	Energy, Inc.				OGI	RID#:	5380		
	Address: #3									
	Facility or well na									
	API Number:					it Number:				
	U/L or Qtr/Qtr									
	Center of Propose									
	Surface Owner:	_					_			
	Temporary: D Permanent Unl Lined Unl String-Reinford Liner Seams: Closed-loop S Type of Operation intent) Drying Pad Lined Unlin Liner Seams: Unlined Unliner Seams: Unlined Unliner Seams: Unliner Seams: Unlined Unliner Seams: Unlined Unliner Seams: Unlined Unliner Seams: Unlined Unliner Seams: Unlined Unliner Seams: Unlined Un	Emergency Clined Liner type: ced Welded Facto ystem: Subsecti P&A Dr Above Ground ned Liner type:	avitation P Thickness ry Other on H of 19.15. rilling a new w Steel Tanks [Thickness	mil [17.11 NMAC ell	Voler or Drilling (Aps	ume:	bbl Dime	nsions: L x	Wx [
L	4.									
9-36-34 AM	Below-grade t Volume:120 Tank Construction ☐ Secondary con ☐ Visible sidewed Liner type: Thicks	n material:	Steel k detection Visible sidewa	uid: <u>Pro</u>] Visible sidew alls only ⊠ Ot	alls, liner, 6-inch	ewalls, vaulte	ed, automatic hig	shut-off th-level shut off, no	o liner	7/6/2022 10:37:36 AM
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130	Alternative M	cention request is	raquired Co.	antions must be	cultimitted to the	Santa Ea E-	wironmental Des	anu office for some	sidamtian of s	nnrount !
70	Samman of an ex		required. EXC	epuons must be	sachmitten to Me	зана ге еп	ivitoimientat But	cau office for cons		ipprovat.
OC	5	Form C-144		C	il Conservation	Division		Page	e Lof 5	Ima
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₹ 6. 1	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	, hospital,
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
n. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen □ Netting ☑ Other Expanded metal or solid vaulted top Monthly inspections (If netting or screening is not physically feasible)	
 Signs: Subsection C of 19.15.17.11 NMAC □ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☑ Signed in compliance with 19.15.3.103 NMAC 	
9. Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approfice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes 🖾 No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🖾 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🛛 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🗵
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒ ∰
Within a 100-year floodplain. - FEMA map	19/4
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain. - FEMA map Form C-144 Oil Conservation Division Page 2 of :	Released to Imaging:
Received	Released

Temporary Pits, Emergency Pits, and Instructions: Each of the following ite				
attached. ☐ Hydrogeologic Report (Below-gr ☐ Hydrogeologic Data (Temporary ☐ Siting Criteria Compliance Demo ☐ Design Plan - based upon the app ☐ Operating and Maintenance Plan ☐ Cleause Plan (Plance complete Per	and Emergency Pits) - I nstrations - based upon ropriate requirements o - based upon the approp	based upon the requirements of the appropriate requirements of 19.15.17.11 NMAC priate requirements of 19.15.1	f Paragraph (2) of Subs of 19.15.17.10 NMAC 7.12 NMAC	ection B of 19.15.17.9 NMAC
and 19.15.17.13 NMAC				of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attac	n copy of design) AF	PI Number:	or Permit N	umber:
Closed-loop Systems Permit Applicat Instructions: Each of the following ite attached. Geologic and Hydrogeologic Dai	ms must be attached to	o the application. Please indi	cate, by a check mark i	
☐ Siting Criteria Compliance Demo ☐ Design Plan - based upon the app ☐ Operating and Maintenance Plan	onstrations (only for on propriate requirements or based upon the appro	-site closure) - based upon the of 19.15.17.11 NMAC opriate requirements of 19.15.1	appropriate requirement 7.12 NMAC	
☐ Previously Approved Design (attack	n copy of design)	API Number:		
Previously Approved Operating and				only to closed-loop system that use
above ground steel tanks or haul-off bit	s and propose to imple	ment waste removal for closu	re)	
13. Permanent Pits Permit Application C Instructions: Each of the following ite attached.			cate, by a check mark i	n the box, that the documents are
Hydrogeologic Report - based up Siting Criteria Compliance Demo Climatological Factors Assessme Certified Engineering Design Pla Dike Protection and Structural In Leak Detection Design - based u Liner Specifications and Compat Quality Control/Quality Assuran Operating and Maintenance Plan Freeboard and Overtopping Prev Nuisance or Hazardous Odors, in Emergency Response Plan Oil Field Waste Stream Characte Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the ap	onstrations - based upon the appropriate required and loss - based upon the appropriate requibility Assessment - based upon the appropriate requibility Assessment - based upon the appropriate upon the appropriate plan - based upon cluding H ₂ S, Prevention rization	on the appropriate requirements of 19.1 upon the appropriate requirements of 19.1 upon the appropriate requirements of 19.15.17.11 NM. sed upon the appropriate requistallation Plan upriate requirements of 19.15.1 on the appropriate requirement on Plan	of 19.15.17.10 NMAC 5.17.11 NMAC ents of 19.15.17.11 NM AC rements of 19.15.17.11 7.12 NMAC s of 19.15.17.11 NMAC	IAC NMAC
Proposed Closure: 19.15.17.13 NMA Instructions: Please complete the app.		through 18, in regards to the	proposed closure plan	l ₄
Type: Drilling Workover E				
	Removal (Closed-loop Closure Method (Only		-loop systems)	
			o the Santa Fe Environ	mental Bureau for consideration)
Waste Excavation and Removal Closs closure plan. Please indicate, by a che Protocols and Procedures - based Confirmation Sampling Plan (if a Disposal Facility Name and Perm Soil Backfill and Cover Design S Re-vegetation Plan - based upon Site Reclamation Plan - based up	ck mark in the box, the upon the appropriate re- applicable) - based upon it Number (for liquids, pecifications - based up the appropriate requires	at the documents are attached equirements of 19.15.17.13 No in the appropriate requirements drilling fluids and drill cuttin pon the appropriate requirements of Subsection I of 19.15	MAC of Subsection F of 19.3 gs) nts of Subsection H of 1 .17.13 NMAC	15.17.13 NMAC
Form C-144		Oil Conservation Division	10 0000	Page 3 of 5

nstructions: Please indentify the facility or facili acilities are required.	ties for the disposal of liquids, drilling fluids and drill cutting	s. Use attachment if more than two
-	Disposal Facility Permit Numl	ber:
Disposal Facility Name:		ber:
Vill any of the proposed closed-loop system operat Yes (If yes, please provide the information b	ions and associated activities occur on or in areas that will not elow) \square No	be used for future service and operations
Re-vegetation Plan - based upon the appropri	for future service and operations: s based upon the appropriate requirements of Subsection H interrequirements of Subsection I of 19.15.17.13 NMAC opriate requirements of Subsection G of 19.15.17.13 NMAC	of 19.15.17.13 NMAC
rovided below. Requests regarding changes to ce	nstration of compliance in the closure plan. Recommendation ratin siting criteria may require administrative approval fron to the Santa Fe Environmental Bureau office for considerati	n the appropriate district office or may b
Ground water is less than 50 feet below the bottom - NM Office of the State Engineer - iWATEI	of the buried waste. RS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Fround water is between 50 and 100 feet below the - NM Office of the State Engineer - iWATE	bottom of the buried waste RS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the botto - NM Office of the State Engineer - iWATEI	om of the buried waste. RS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Vithin 300 feet of a continuously flowing watercou ake (measured from the ordinary high-water mark) - Topographic map; Visual inspection (certif		d, sinkhole, or playa Yes No
Vithin 300 feet from a permanent residence, schoo - Visual inspection (certification) of the prop	l, hospital, institution, or church in existence at the time of initiosed site; Aerial photo; Satellite image	ial application. Yes No
vatering purposes, or within 1000 horizontal feet o	esh water well or spring that less than five households use for of f any other fresh water well or spring, in existence at the time of RS database; Visual inspection (certification) of the proposed s	of initial application.
dopted pursuant to NMSA 1978, Section 3-27-3, a	n a defined municipal fresh water well field covered under a mus amended. The municipality; Written approval obtained from the municipal	
Vithin 500 feet of a wetland US Fish and Wildlife Wetland Identificatio	n map; Topographic map; Visual inspection (certification) of t	he proposed site
Vithin the area overlying a subsurface mine. - Written confirmation or verification or map	from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Vithin an unstable area. - Engineering measures incorporated into the Society; Topographic map	e design; NM Bureau of Geology & Mineral Resources; USGS	; NM Geological Yes No
Vithin a 100-year floodplain FEMA map		☐ Yes ☐ No
y a check mark in the box, that the documents ar Siting Criteria Compliance Demonstrations - Proof of Surface Owner Notice - based upon Construction/Design Plan of Burial Trench (Protocols and Procedures - based upon the ap Confirmation Sampling Plan (if applicable) - Waste Material Sampling Plan - based upon Disposal Facility Name and Permit Number (Soil Cover Design - based upon the appropri Re-vegetation Plan - based upon the appropri	MAC) Instructions: Each of the following items must be attacked. based upon the appropriate requirements of 19.15.17.10 NMA the appropriate requirements of Subsection F of 19.15.17.13 N (if applicable) based upon the appropriate requirements of 19.1 (for in-place burial of a drying pad) - based upon the appropriate propriate requirements of 19.15.17.13 NMAC based upon the appropriate requirements of Subsection F of 19.15.17.13 N (for liquids, drilling fluids and drill cuttings or in case on-site of ate requirements of Subsection H of 19.15.17.13 NMAC interequirements of Subsection I of 19.15.17.13 NMAC oppriate requirements of Subsection G of 19.15.17.13 NMAC	AC NMAC 15.17.11 NMAC te requirements of 19.15.17.11 NMAC 9.15.17.13 NMAC
Form C-144	Oil Conservation Division	Page 4 of 5

19.		
Operator Application Certification:		
$\frac{1}{2}$ I hereby certify that the information submitted with this application is tr	ue, accurate and complete to th	e best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlen	Date	11/21/00
e-mail address: kim champlin@xtoenergy.com		11/21/08
e-mail address: <u>kiin_cnampiinia/xtoenergy.com</u>	retepnone:	(505) 333-3100
OCD Approval: Permit Application (including closure plan) O	Yosure Plan (only)	Conditions (see attachment)
OCD Representative Signature: Victoria Venegas		Approval Date:07/06/2022
Title: Environmental Specialsit	OCD Permit Numb	ber: BGT1
21. Closure Report (required within 60 days of closure completion): Su Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained a	nn prior to implementing any o days of the completion of the	closure activities and submitting the closure report closure activities. Please do not complete this been completed.
22.		
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 liquitive facilities were utilized.		
Disposal Facility Name:	Disposal Facility Po	ermit Number:
Disposal Facility Name:		ermit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)		be used for future service and operations?
Required for impacted areas which will not be used for future service an Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:	 .
24. Closure Report Attachment Checklist: Instructions: Each of the followark 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	closure)	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	•	pecified in the approved closure plan.
Name (Print):	Title:	Page 5 of 5
Signature:	Date:	
e-mail address: Form C-144 Oil Cor	Telenhone:	2
e-mail address:		
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Form C-144 Oil Cor	nservation Division	Page 5 of 5
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NEW MEXICO OIL CONSERVATION COMMISSION

Gas Well Plat

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No. Acres Dedicated	i to the Well	60	
Indicate Land Owner	ship Status. (Fed	eral, State, Pater	ited)
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I hereby certify that the information given above is true and complete to the best of my knowledge.

Name C Fuller C.

Position Field Englished Address Box #87 Farming & March 1985

Takee)

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At 1 . C · I Pit Po		Pit Permit		Client:	
Lodestar Service	Lodestar Services, Inc. P0 Box 4465, Durango, C0 81302 Information Sheet			Project:	
PO Box 4465, Durang				Revised:	4-Nov-08
l V			et	Prepared by:	Brooke Herb
API#:		3004506803		USPLSS:	T27N,R10W,S01M
Name:		GALT MN F #1		Lat/Long:	36.59946, -107.85211
Depth to groundwater:		> 100'		Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	6.84 mi	les S of San Juan River			
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	2961' E	of Armenta Canyon Wash			
				Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No			
				Annual Precipitation:	8.71 inches (Bloomfield)
Domestic fresh water well or spring within 500'		No		Precipitation Notes:	Historical Daily Max Bloomfield 4.19"
Any other fresh water well or spring within 1000'	_	No	ľ		
			١,		
Within incorporated municipal boundaries Within defined		No		Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
municipal fresh water well field		No			Aerial Photo, Topo Map, Mines Mills and Quarries Map
Wetland within 500'		No		Mining Activity:	
Within unstable area		No	ľ		None Near
Within 100 year flood plain	No - F	EMA Flood Zone 'X'			
Additional Notes:		•			

GALT MN F #1 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 located in the southern Armenta Canyon region of the San Juan Basin. The predominant geologic formation is the Nacimiento 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 Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River.

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area. 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 8 to 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). However, vegetation is very sparse and discontinuous.

Site Specific Hydrogeology

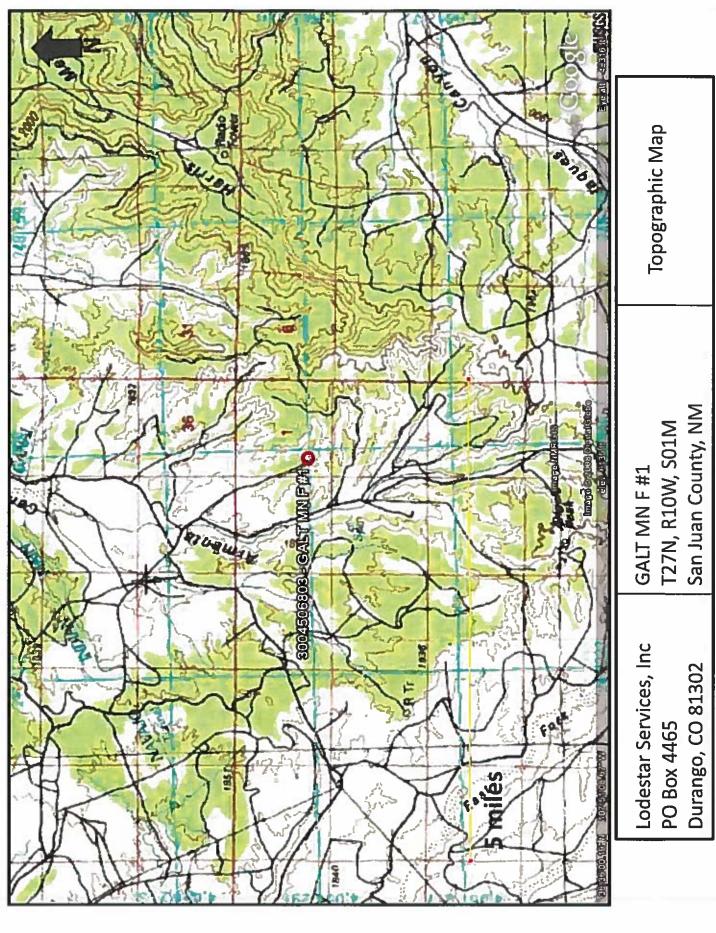
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

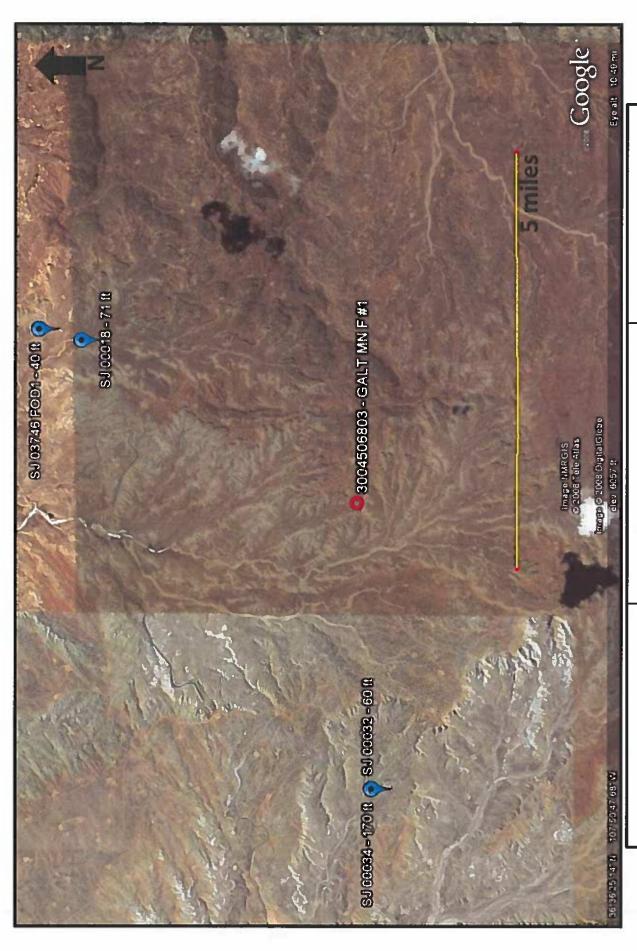
Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to 3500 feet (USGS, Groundwater Atlas of the US).

The site in question is located near the edge of Armenta Canyon, where deeply eroded sandstone-capped mesas and slope-forming mudstones occur in a sparsely vegetated and arid badlands-type setting. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

The pit is situated at an elevation of approximately 6080 feet. The proposed site is located approximately 2961 feet east of Armenta Canyon Wash. Groundwater is expected to be shallow within Armenta Wash. The distance between the Wash and the proposed site, as well as an elevation difference of approximately 130 feet, suggests that depth to groundwater at the proposed site would be greater than 100 feet.

State iWaters data points are sparsely distributed in this region. There are two iWaters data points approximately 3.39 miles to the west-southwest of the site, at an elevation of approximately 5985 feet. Depth to groundwater within the wells is 60 feet and 170 feet below ground surface. A map showing the location of wells in reference to the proposed pit location is attached.





Lodestar Services, Inc 64
PO Box 4465
Durango, CO 81302

GALT MN F #1 T27N, R10W, S01M San Juan County, NM

| iWaters Groundwater | Data Map

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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New Mexico Office of the State Engineer POD Reports and Downloads

Township: 28h Range: 09w Sections:

WATER COLUMN REPORT 10/30/2008

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SJ 00018	28N	M60	20	ന	1 4					135		0.4		

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 77 Range: 111 Sections:

POD / Surface Data Report Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 10/30/2008

	(quarters	are	1=N big	W 2	出土	quarters are 1=NW 2=NB 3=SW 4=SB) quarters are biggest to smallest)		;	Depth	Depth	Water (in	(in feet	et)
PCD Number	LAL	Rag	Sec	م	ש	Zone	×	> 1	Well	Water	Column		
SJ 01787	27N	118	0,1	44					650				
SJ 00077	Z7N	MIT	26	(J	m				1102	920	552		

Record Count: 2

New Mexico Office of the State Engineer POD Reports and Downloads

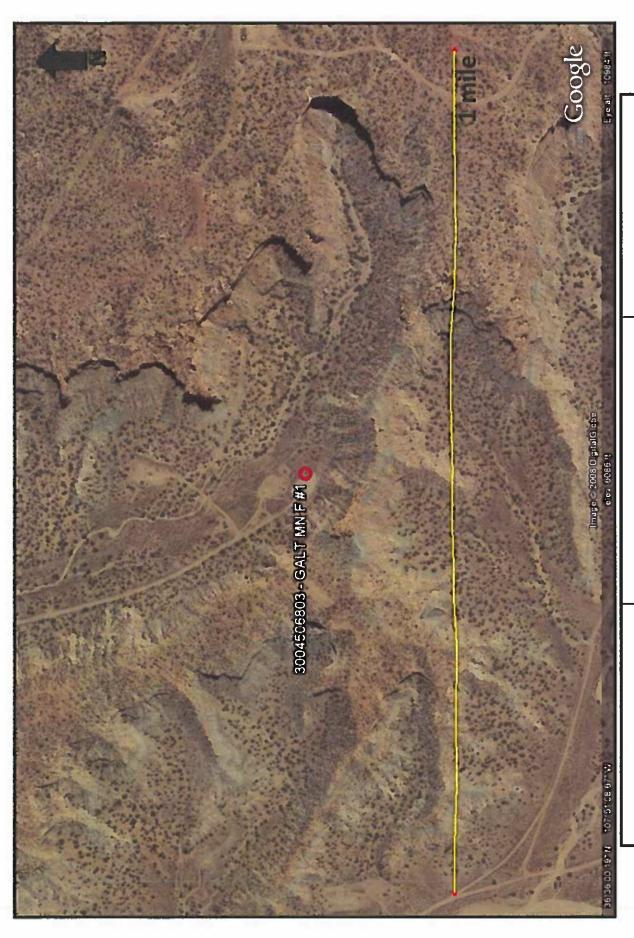
Township: | 29h Range: | 10v Sections: |

WATER COLUMN REPORT 10/27/2008

Depth Water (in feet) Water Column 450 50		20 40 65 25	9	5 15 19) 1	.c. 19 12 28	2 7 10 10 10 10		17 3	30 10	FT /	15 35	20 245	16 66	34 76	20 20
Depth Well 500 20	40 60	60 90 150	20 40	20	70	4 CS	전점	15	0 0 N 0	40	2 t/3 5 t/0	20	265	(1 (0)	110	40
>1																
(quarters are 1=NW 2=NR 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone X 29N 10W 25 2 29N 10W 04 2 4 2		29N 10W 13 4 29N 10W 18 1 3 1 29N 10W 18 1 3 1	10W	29N 10W 19 3 3 29N 10W 19 4 4	HOT	TOM TOM	29N 10W 20 4 4 29N 10W 20 4 4	101	TOM TOM	10%		108				9N 10W 24 1 4 2
i	SJ 00680 2 SJ 00785 NEW 2		SJ 02078 2								SJ 01474 2	03180	POD1	[1	SJ 02896	(4)

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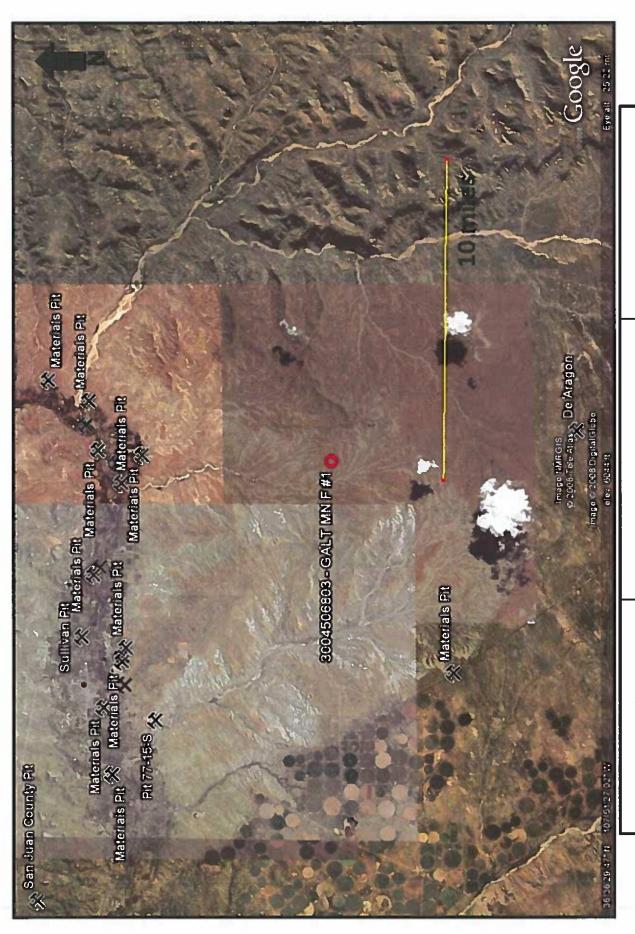
SJ 00092	78	104	₹°	Ċ)	CI 란				33		
SJ 02802	29N	101	4	m	6				132	30	102
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SJ 02122	29N	10W	S	Ч	_				60	더러	49
SJ 01019	Z9N	10W	10	খ	е С				50	4	46
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SJ 02216	29N	107	61	H	01				30	7	23
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SJ 00473	29N	LOW	30	CI	411				ധ	10	44.0
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SJ 01051	29N	101	ខា	N	UI UI				90	30	60
SJ 01050	X9N	101	36	_	~H				92	38	47



Lodestar Services, Inc PO Box 4465 Durango, CO 81302

GALT MN F #1 T27N, R10W, S01M San Juan County, NM

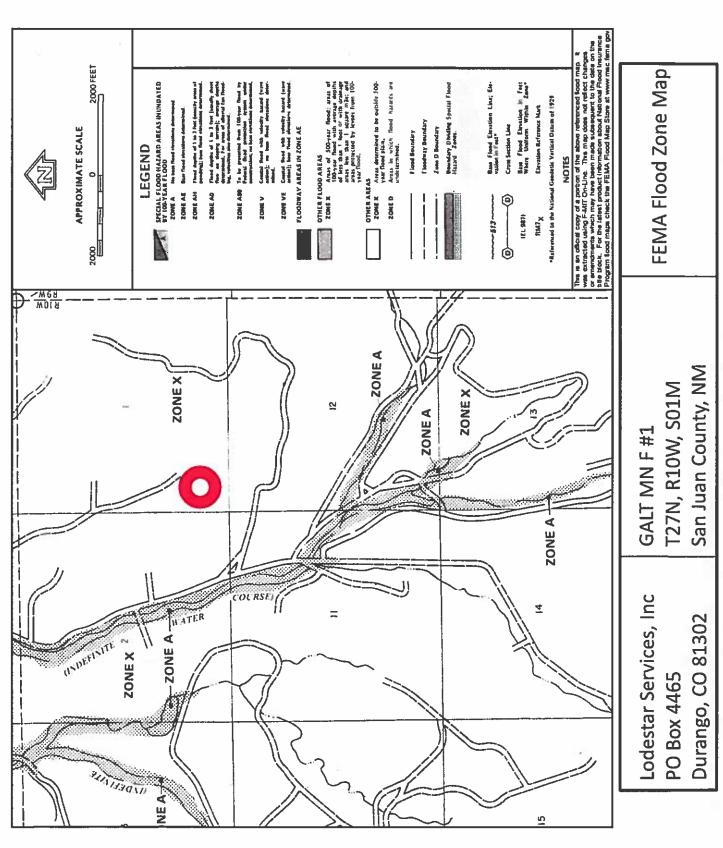
Aerial Photograph



Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
San Juan Coun

GACI MIN F #1 T27N, R10W, S01M San Juan County, NM

Mines, Mills, and Quarries Map



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

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

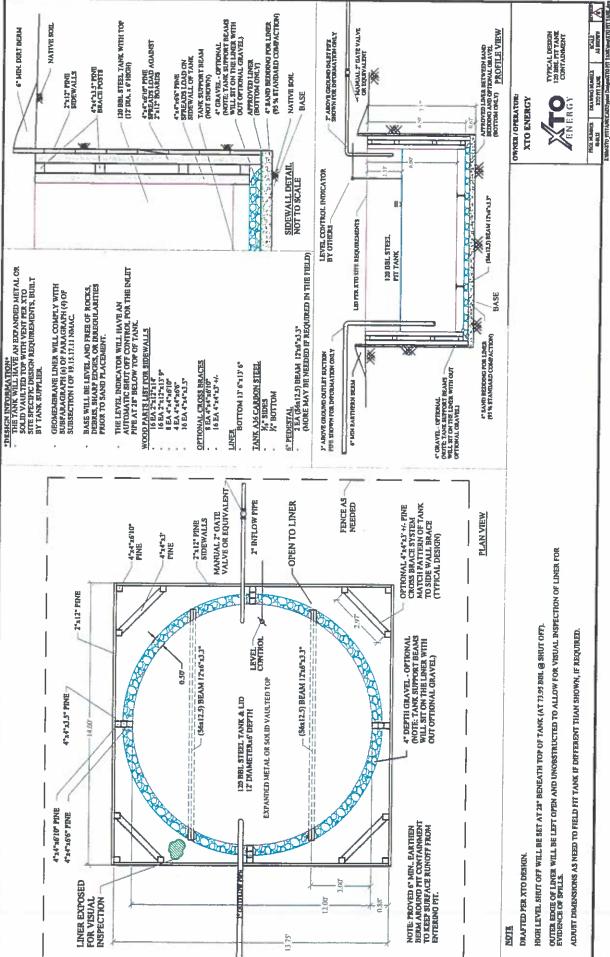
General Plan

- 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.
- XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site
 operated by XTO where the existing below-grade tank is located. The sign will list the Operator
 on record as the operator, the location of the well site by unit letter, section, township, range, and
 emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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 1 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.



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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

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

Well Name:		MONT	1LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTIO API No.:	IN FORM		
Legals	Sec:	1	Township:		Range:			
XTO Inspector's	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeboard
	Dale	D	(T/N)	Idrik Overriows (17N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
						ı.		
Notes		0						
		riovide Detailed Description;	- Stion:					
Misc	•							
	•							
	•							
	•							

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

In accordance with Rule 1915.17.13 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

- 1. 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.
- 33. 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:
 - Proof of closure notice to division and surface owner;
 - Details on capping and covering, where applicable; ii.
 - Inspection reports, III.
 - īv. Confirmation sampling analytical results,
 - Disposal facility name(s) and permit number(s); V.
 - Soil backfilling and cover installation; VI.
 - 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.

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 94244

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	94244
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us id	lentify the appropriate associations in the system.
Facility or Site Name	MN GALT F1
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	MNGALTF1
Well API, if associated with a well	30-045-06803
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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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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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 94244

QUESTI	IONS (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	
N. W		
Netting Subsection Field 45 17 14 NMAC (Applies to permanent site and permanent even too tooks)		
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen	Not answered.	
Netting	Not answered.	
Other, Netting. Please specify (Variance May Be Needed)	expanded metal o	r solid vaulted top
la:		
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 comp	liance 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 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): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	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 3

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

Action 94244

QUESTIONS (continued	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	94244
	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	11/21/2008

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ACKNOWLEDGMENTS

Action 94244

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	94244
	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 94244

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	94244
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By		Condition Date
vvenegas	None	7/6/2022