District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Operator: XTO Energy, Inc.

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

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

Type of action: Existing BGT BGT1	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tanl	x, or proposed alternative method
ns: Please submit	one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

OGRID #:

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Address: #382 County Road 3100, Aztec, Nivi	107710	
Facility or well name: Ohio B Aztec #1		<u>.</u>
API Number: 30-045-21516	OCD Permit Number:	
	Township 28N Range 11W Count	
Center of Proposed Design: Latitude 36.65202	Longitude <u>107.97503</u>	NAD: □1927 ⊠ 1983
Surface Owner: X 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&		
Lined Unlined Liner type: Thickness	mil	r
☐ String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bbi	Dimensions: L x W x D
3.		
Closed-loop System: Subsection H of 19.15.1		
Type of Operation: ☐ P&A ☐ Drilling a new we intent)	II ☐ Workover or Drilling (Applies to activities which	require prior approval of a permit or notice of
☐ Drying Pad ☐ Above Ground Steel Tanks ☐	Haul-off Bins Other	
☐ Lined ☐ Unlined Liner type: Thickness	mil LLDPE HDPE PVC C	Other
Liner Seams: Welded Factory Other		
4.		
■ Below-grade tank: Subsection I of 19.15.17.1	11 NMAC	
Volume: 120 bbl Type of flu	id: Produced Water	210 50
Tank Construction material: Steel		
Secondary containment with leak detection	Visible sidewalls, liner, 6-inch lift and automatic over	flow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewal	lls only 🛛 Other <u>Visible sidewalls, vaulted, automa</u>	tic high-level shut off, no liner
Liner type: Thicknessmil	☐ HDPE ☐ PVC ☐ Other	
Alternative Method:		
Submittal of an exception request is required. Exce	Visible sidewalls, liner, 6-inch lift and automatic over lls only ☑ Other <u>Visible sidewalls, vaulted, automa</u> ☐ HDPE ☐ PVC ☐ Othereptions must be submitted to the Santa Fe Environment	al Bureau office for consideration of approval.
	100	
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		5

6.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, sinstitution or church)	chool, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other Expanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	
8. Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
⊠ Signed in compliance with 19,15.3,103 NMAC	
9.	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for 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 B consideration of approval.	ureau office for
☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10. Siting Criteria (regarding permitting): 19,15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration	
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply	
above-grade tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or play	_{∕a}
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ⊠ ☐ NA
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	LI NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ ☐ NA
(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Z IA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes 🗵
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	on.
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes 🖂
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🏻
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.	☐ Yes ⊠
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain.	☐ Yes 🏻
- FEMA map	
	W00 (20
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Instructions: Fach of the	Date 1 Date 1 Date		W 1 W 2 C 1 2 C 10 C 10 15 15 0 3 16 4 0
***************************************			Checklist: Subsection B of 19.15.17.9 NMAC by a check mark in the box, that the documents are
attached.	c jonowing nems mass be anaci	ca to the applications I sease material,	by a circle mare in the song that the abcome is are
☐ Hydrogeologic Dat	a (Temporary and Emergency Pit	upon the requirements of Paragraph (4) s) - based upon the requirements of Parapon the appropriate requirements of 19	agraph (2) of Subsection B of 19.15.17.9 NMAC
Design Plan - based	d upon the appropriate requirement	nts of 19.15.17.11 NMAC	
		opropriate requirements of 19.15.17.12 i	
and 19.15.17.13 NMAC	e complete Boxes 14 through 18,	it applicable) - based upon the appropr	iate requirements of Subsection C of 19.15.17.9 NMA
☐ Previously Approved	Design (attach copy of design)	API Number:	or Permit Number:
12. Clased Ioan Systems Po	rmit Application Attachment C	hecklist: Subsection B of 19.15.17.9 l	NIMAC
			by a check mark in the box, that the documents are
Geologic and Hydr Siting Criteria Con Design Plan - base Operating and Mai	npliance Demonstrations (only for d upon the appropriate requirement intenance Plan - based upon the a	r on-site closure) - based upon the apprents of 19.15.17.11 NMAC ppropriate requirements of 19.15.17.12	
and 19.15.17.13 NMAC	se complete boxes 14 through 18	, it applicable) - based upon the approp	riate requirements of Subsection C of 19.15.17.9 NM.
Previously Approved	Design (attach copy of design)	API Number:	
	•		(Applies only to closed-loop system that use
above ground steel tanks	or haul-off bins and propose to it	mplement waste removal for closure)	
13. Permanent Pits Permit 1	Application Checklist: Subsect	ion B of 19.15.17.9 NMAC	
Instructions: Each of thattached.	e following items must be attach	ed to the application. Please indicate,	by a check mark in the box, that the documents are
Hydrogeologic Rep		s of Paragraph (1) of Subsection B of 1	
		upon the appropriate requirements of 19	0.15.17.10 NMAC
☐ Climatological Fac ☐ Certified Engineeri		e appropriate requirements of 19,15,17,1	II NMAC
		sed upon the appropriate requirements of	
		requirements of 19.15.17.11 NMAC	
		- based upon the appropriate requirement	nts of 19.15.17.11 NMAC
	uality Assurance Construction and		NIMAG
Freeboard and Ove	ntenance Plan - based upon the a	ppropriate requirements of 19,15,17,12 upon the appropriate requirements of 1	9.15.17.11.NMAC
	dous Odors, including H ₂ S, Preve		
Emergency Respon			
	ream Characterization		
☐ Monitoring and Ins			
		ents of Subsection C of 19.15.17.9 NM	AC and 19.15.17.13 NMAC
14.			
14. Proposed Closure: 19,1		es 14 through 18, in regards to the prot	posed closure plan.
14. Proposed Closure: 19,1 Instructions: Please con	nplete the applicable boxes, Boxe	es 14 through 18, in regards to the prop	•
14. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W	nplete the applicable boxes, Boxe		posed closure plan. Below-grade Tank Closed-loop System
Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative	nplete the applicable boxes, Boxes orkover	itation	•
Is. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative	roplete the applicable boxes, Boxe orkover	itation P&A Permanent Pit noval oop systems only)	Below-grade Tank
4. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative	roplete the applicable boxes, Boxe orkover	itation P&A Permanent Pit noval oop systems only) Only for temporary pits and closed-loop	Below-grade Tank
A. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative	roplete the applicable boxes, Boxe orkover	itation P&A Permanent Pit moval oop systems only) Only for temporary pits and closed-loop On-site Trench Burial	Below-grade Tank
4. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative Proposed Closure Method	rorkover	noval oop systems only) Only for temporary pits and closed-loop On-site Trench Burial od (Exceptions must be submitted to the	Below-grade Tank
4. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative Proposed Closure Method S. Waste Excavation and F	roplete the applicable boxes, Boxed orkover	noval oop systems only) Only for temporary pits and closed-loop On-site Trench Burial od (Exceptions must be submitted to the	Below-grade Tank
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A. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative Proposed Closure Method S. Waste Excavation and Felosure plan. Please inde Confirmation Sam Disposal Facility N	d: Waste Excavation and Rer Waste Excavation and Rer Waste Removal (Closed- In-place Buria Alternative Closure Method Removal Closure Plan Checklist icate, by a check mark in the box tedures - based upon the appropria pling Plan (if applicable) - based Name and Permit Number (for liqu	moval oop systems only) Only for temporary pits and closed-loop 1 On-site Trench Burial od (Exceptions must be submitted to the 1; (19.15.17.13 NMAC) Instructions: 1; that the documents are attached. 1; attached are requirements of 19.15.17.13 NMAC 1; upon the appropriate requirements of Studds, drilling fluids and drill cuttings)	Below-grade Tank Closed-loop System systems) Santa Fe Environmental Bureau for consideration) Each of the following items must be attached to the absection F of 19.15.17.13 NMAC
A. Proposed Closure: 19.1 Instructions: Please con Type: Drilling W Alternative Proposed Closure Method Solvent Method Naste Excavation and Follosure plan. Please inde Protocols and Proc Confirmation Same Disposal Facility N Soil Backfill and C	d: Waste Excavation and Rer Waste Excavation and Rer Waste Removal (Closed- In-place Buria Alternative Closure Method Removal Closure Plan Checklist icate, by a check mark in the box bedures - based upon the appropria pling Plan (if applicable) - based Name and Permit Number (for lique Cover Design Specifications - based	noval oop systems only) Only for temporary pits and closed-loop 1 On-site Trench Burial od (Exceptions must be submitted to the 1; (19.15.17.13 NMAC) Instructions: 1; that the documents are attached. 1; attached are requirements of 19.15.17.13 NMAC 1; upon the appropriate requirements of Studds, drilling fluids and drill cuttings) 1; attached appropriate requirements of Studds, drilling fluids and drill cuttings) 1; attached appropriate requirements of Studds, drilling fluids and drill cuttings)	Below-grade Tank Closed-loop System systems) Santa Fe Environmental Bureau for consideration) Each of the following items must be attached to the absection F of 19.15.17.13 NMAC Subsection H of 19.15.17.13 NMAC
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Disposal Facility Name:	Disposal Facility Permit Number:	
	Disposal Facility Permit Number:	
ill any of the proposed closed-loop system operatio Yes (If yes, please provide the information below	ons and associated activities occur on or in areas that will not be used for future serow) \(\subseteq\) No	vice and operation
Re-vegetation Plan - based upon the appropriat	or future service and operations: based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA te requirements of Subsection I of 19.15.17.13 NMAC riate requirements of Subsection G of 19.15.17.13 NMAC	C
ovided below. Requests regarding changes to cert	stration of compliance in the closure plan. Recommendations of acceptable sou ain siting criteria may require administrative approval from the appropriate dis the Santa Fe Environmental Bureau office for consideration of approval. Just	trict office or ma
round water is less than 50 feet below the bottom of - NM Office of the State Engineer - iWATERS	the buried waste. Gatabase search; USGS; Data obtained from nearby wells	Yes No
round water is between 50 and 100 feet below the b - NM Office of the State Engineer - iWATERS	ottom of the buried waste is database search; USGS; Data obtained from nearby wells	Yes N
round water is more than 100 feet below the bottom - NM Office of the State Engineer - iWATERS	of the buried waste. database search; USGS; Data obtained from nearby wells	☐ Yes ☐ N
ithin 300 feet of a continuously flowing watercours ce (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)	se, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ation) of the proposed site	☐ Yes ☐ N
ithin 300 feet from a permanent residence, school, l - Visual inspection (certification) of the propos	hospital, institution, or church in existence at the time of initial application. sed site; Aerial photo; Satellite image	☐ Yes ☐ N
itering purposes, or within 1000 horizontal feet of a	h water well or spring that less than five households use for domestic or stock any other fresh water well or spring, in existence at the time of initial application. Is database; Visual inspection (certification) of the proposed site	☐ Yes ☐ N
opted pursuant to NMSA 1978, Section 3-27-3, as a	defined municipal fresh water well field covered under a municipal ordinance amended. municipality; Written approval obtained from the municipality	Yes N
ithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification is	map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ N
ithin the area overlying a subsurface mine. - Written confirmation or verification or map fr	rom the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ N
 ithin an unstable area. Engineering measures incorporated into the d Society; Topographic map 	esign; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ N
ithin a 100-year floodplain. - FEMA map		☐ Yes ☐ N
a check mark in the box, that the documents are a Siting Criteria Compliance Demonstrations - based upon the Construction/Design Plan of Burial Trench (if Construction/Design Plan of Temporary Pit (fo Protocols and Procedures - based upon the applicable) - based upon the Site Masterial Sampling Plan - based upon the Disposal Facility Name and Permit Number (fo Soil Cover Design - based upon the appropriate Re-vegetation Plan - based upon the appropriate	ased upon the appropriate requirements of 19.15.17.10 NMAC se appropriate requirements of Subsection F of 19.15.17.13 NMAC sapplicable) based upon the appropriate requirements of 19.15.17.11 NMAC or in-place burial of a drying pad) - based upon the appropriate requirements of 19	.15.17.11 NMAC
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		e, accurate and complete to the best		
Name (Print): Kim Champlin		Title: Env	rironmental Repres	sentative
Signature: 17 M (A	amp Cin			
e-mail address: <u>kim_champlin@x</u>	toenergy.com	Telephone:(50	05) 333-3100	
o. OCD Approval: X Permit Applicat	tion (including closure plan) Cl	osure Plan (only) 🔲 OCD Condi	tions (see attachme	ent)
OCD Representative Signature: <i>J</i>	aclyn Burdine	A	pproval Date:(08/09/2022
ritle: Environmental Special	•	OCD Permit Number:		
u. Closure Report (required within 60	days of closure completion). Sub			
Instructions: Operators are required The closure report is required to be s section of the form until an approved	l to obtain an approved closure plan ubmitted to the division within 60 d	prior to implementing any closure ays of the completion of the closur	e activities. Pleas	
		Closure Completion	Date:	
22. Closure Method: Waste Excavation and Removal If different from approved plan, p	On-Site Closure Method lease explain.	Alternative Closure Method	Vaste Removal (C	losed-loop systems on
23. Closure Report Regarding Waste R Instructions: Please indentify the fac- two facilities were utilized.				
Disposal Facility Name:		Disposal Facility Permit N	lumber:	
Disposal Facility Name:				
Required for impacted areas which wi	nentation)			
Soil Backfilling and Cover Insta Re-vegetation Application Rate				
- Charles and the Control of the Con				
Closure Report Attachment Checklimark in the box, that the documents of Proof of Closure Notice (surfaction Proof of Deed Notice (required Plot Plan (for on-site closures at Confirmation Sampling Analytically Waste Material Sampling Analytically Disposal Facility Name and Personial Soil Backfilling and Cover Instantically Re-vegetation Application Rate Site Reclamation (Photo Documents)	are attached. te owner and division) for on-site closure) and temporary pits) ical Results (if applicable) ytical Results (required for on-site closure) mit Number allation and Seeding Technique mentation)	osure)		
Closure Report Attachment Checklinark in the box, that the documents of Proof of Closure Notice (surfaction Proof of Deed Notice (required Plot Plan (for on-site closures at Confirmation Sampling Analytically Waste Material Sampling Analytically Disposal Facility Name and Pertical Soil Backfilling and Cover Instaction Re-vegetation Application Rate Site Reclamation (Photo Documents Closure Location: Lati	are attached. The owner and division) The owner and division) The owner and division) The owner and division The owner and temporary pits) The owner and temporary pits The owner a			
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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Well No. Operator Ohio "B" Aztec MARATHON DIL COMPANY County Township Range Unit Letter Section 28 North 11 West San Juan 23 Actual Footage Location of Well: 1890 West 1060 North feet from the line and line Fulcher-Kutz Pictured Cliffs Producing Formation Dedicated Acreage: Ground Level Elev. 5707 160 Pictured Cliffs Sand Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? Communitization If answer is "yes," type of consolidation _ X Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION 1000 AZTEC OIL & GAS CO. WI-100% I hereby certify that the information contained herein is true and complete to the USA RI-12.5% HM & MC McCORD ORRI-1% best of my knowledge and belief. Carl M. Morris Position MARATHON OIL CO. WI-100% District Operations Manager USA RI-12.5% Marathon Oil Company Sec. 23 shown on this plat was platfed from field COH. CON Ulias & Chillippy house by me or er my supervision, and that the same DIST. PRED LAND SU Tribertania. Date Surveyed May 17, 1974 Registered Professional Engineer and/or Land Surveyor

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Certificate No.

Released to Imaging: 8/9/2022

E.V.Echohawk LS

Siting Criteria Information Sheet Inform	Lodestar Services, Inc. F0 Box 4465, Durango, CO 81302		Pit Permit Client:		XTO Energy	
Information Sheet API#: 30-045-21516 Name: Ohio B Aztec #1 Depth to groundwater: > 100 feet Distance to closest continuously flowing watercourse; Distance to closest slignificant watercourse, lakebed, playa lake, or sinkhole: Permanent residence, school, hospital, institution or church within 300' Domestic fresh water well or spring within 500' Any other fresh water well or spring within 1000' Within incorporated municipal boundaries Within defined municipal fresh water well field No Within defined municipal fresh water well field Information Sheet USPLSS: T28N,R11W,23C Lat/Long: 36.65202 / -107.97503 Geologic formation: Nacimiento Formation Soil Type: Entisols Soil Type: Entisols Annual Precipitation: 10.41"average Precipitation: Precipitation: 10.41"average Historical daily max: Bloomfield 4. Attached Documents: Topo map, ground water data map, photo, mines and quarries map, FE map						
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Ohio B Aztec #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 northernmost Bisti region of the San Juan Basin within an area dominated by irrigated fields of the Navajo Indian Irrigation Project. 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, 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 climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

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

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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.

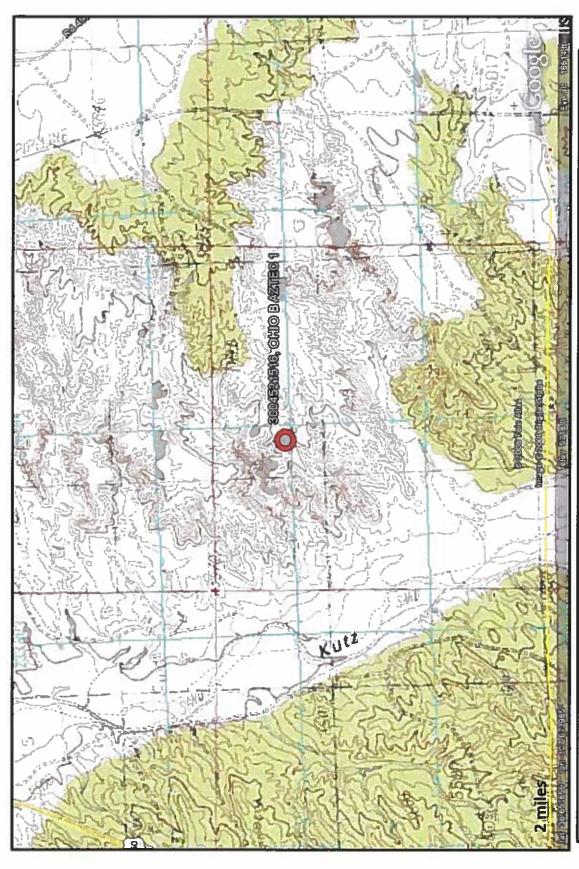
Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depth s 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 Kutz Canyon, where deeply eroded sandstone-capped mesas and slope-forming mudstone occur in a sparsely vegetated and aird badlands-type setting. Broad shaley hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

The pit will be located within an unnamed arroyo adjacent to Kutz Canyon at an elevation of approximately 5,715 feet approximately 3,206 feet east of Kutz Canyon. Ground water is expected to be shallow within Kutz Canyon. The floor of Kutz Canyon sits at 5,495 feet an elevation difference of approximately 220 feet exists between the site and the floor of Gallegos Canyon. The elevation difference of almost 220 feet between the proposed site and the floor of Kutz Canyon, suggests groundwater is greater than 100 feet at the proposed site.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the locations of wells in reference to the proposed pit location is also attached. Water drops show locations of wells and the labels for each water drop indicate depth to groundwater in feet. The closest well to the site is at an elevation of approximately of 5,484 feet and is located 4.33 miles to the northwest this well puts groundwater at 70 feet below the surface. This data places distance to groundwater at greater than 100 feet for the proposed site. However this site is not representative of the proposed site. The elevation difference of approximately 220 feet between the floor of Kutz Canyon and the proposed site should be used as the deciding factor on distance to groundwater in this case, seeing how the water wells surrounding the proposed sites cannot be used to accurately judge distance to groundwater. The observations made within this report suggest that groundwater is greater than 100 feet deep at the proposed location.

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TOPOGRAPHIC MAP Ohio B Aztec #1 T28N,R11W,23C San Juan County , NM Lodestar Services, Inc PO Box 4465 Durango, CO 81302

Map San Juan County, NM T28N,R11W,23C Durango, CO 81302 PO Box 4465

New Mexico Office of the State Engineer POD Reports and Downloads

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Lodestar Services, Inc Oh PO Box 4465
Durango, CO 81302 Sai

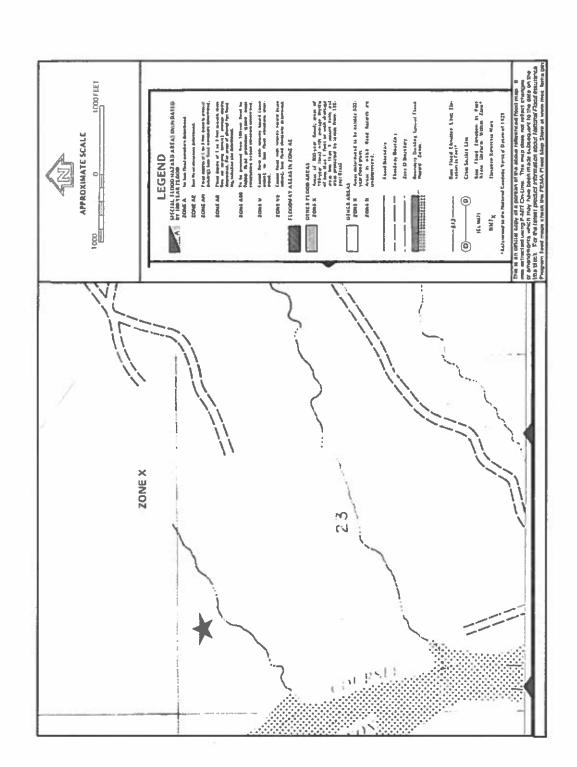
Ohio B Aztec #1 T28N,R11W,23C San Juan County , NM

AERIAL PHOTOGRAPH



San Juan County, NM T28N,R11W,23C Ohio B Aztec #1 Lodestar Services, Inc Durango, CO 81302 PO Box 4465

Mines 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.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or 1/4 mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 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 1/4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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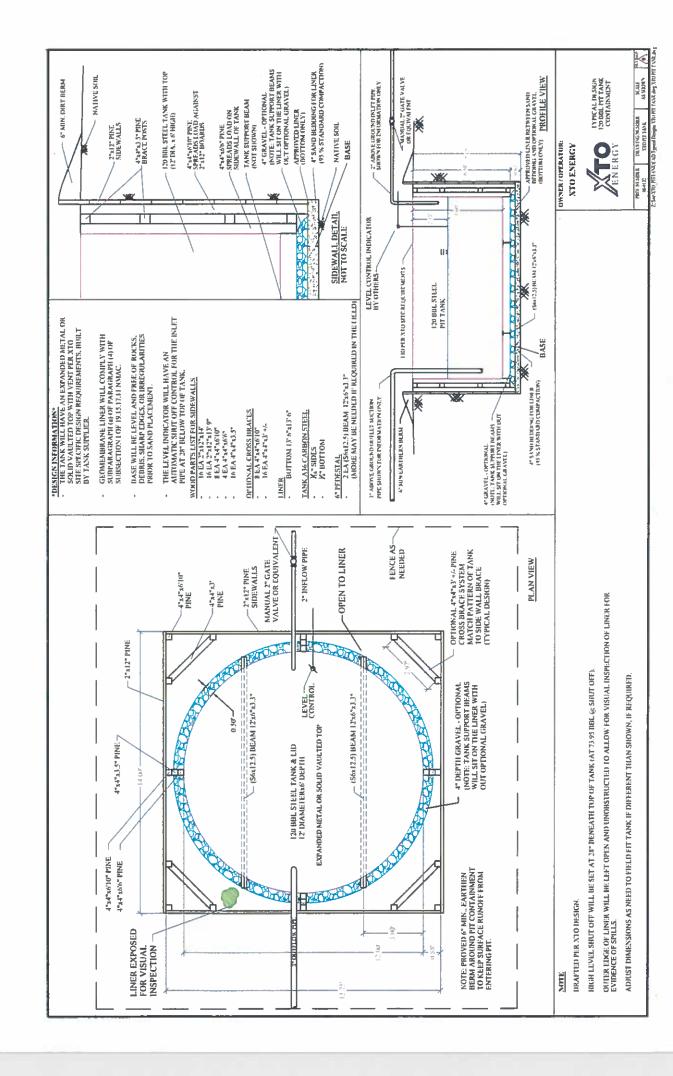
XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

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

- 9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).

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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.
- 6. XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

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

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

		MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTIO	N FORM		
Well Name:					API No.:			_
Legals	Sec		Township:		Range:			
XTO	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeboard
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
						55.		
Notes:	Provide De	Provide Detailed Description:	otion:					
Misc.								
0								

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

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

General Plan

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through 2. (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.
- XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade 3. 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.
- XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure 4. 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

- XTO will remove the below-grade tank and dispose of it in a division approved facility or 5. 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.
- XTO will remove any on-site equipment associated with a below-grade tank unless the equipment 6. 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.
- 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 divisionapproved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands.

 Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted)
 consisting of at least three native plant species, including at least one grass, but not including
 noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding
 or planting will be continued until successful vegetative growth occurs.

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

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

District 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 97913

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97913
	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	dentify the appropriate associations in the system.
Facility or Site Name	OHIO B AZTEC 1
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	OHIO B AZTEC 1
Well API, if associated with a well	30-045-21516
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

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

District II

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

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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 (continued)

QUESTIONS, Page 2

Action	97913

Operator.	OGRID.
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97913
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
	[0-144] Legacy Delow Grade Fallik Flair (0-144LD)
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)	Al steel moch
Alternate, Fending, Flease specify (Variance Nequired)	4' steel mesh
Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	<u></u>
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	expanded metal or solid vaulted top
Signs	
Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have	e their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.
<u> </u>	

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

QUESTIONS, Page 3

Action	97913

1220 C. Ot 1 failois Dr., Canta 1 C, NW 07000	Fe, NM 87	505
Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTI	ONS (continued)	
Operator: HILCORP ENERGY COMPANY		OGRID: 372171
1111 Travis Street Houston, TX 77002		Action Number: 97913
		Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS		
Siting Criteria (regarding permitting)		
19.15.17.10 NMAC		
Instructions: The applicant must demonstrate compliance for each siting criteria below. Siting criteria does not apply to drying pads or above-grade tanks.	below in the applica	ation. Recommendations of acceptable source material are provided
Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Yes	
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)	Yes	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Yes	
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.	

01/19/2009

Operator Application Certification Registered / Signature Date

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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 97913

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	97913
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 97913

CONDITIONS

Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	97913		
	Action Type:		
	[C-144] Legacy Below Grade Tank Plan (C-144LB)		

CONDITIONS

Created By	/ Condition	Condition Date
jburdine	None	8/9/2022