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 NMOCD District Office.

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

Form C-144

NM 87505 2003 Kill District Of Fig. 11 40

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

	Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Existing BGT	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
BGT1	-	Modification to an existing permit
DGII		Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	below-grade tank	t, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground 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 ordinance.

environment. Not does approval refleve the operator of its responsibility to comply with any other approache governmental addition.	, 5 raies, regulations of oraniana
Operator: XTO Energy, Inc. OGRID #: 5380	
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name:AZTEC COM 3 #1	
API Number: 30-045-09515 OCD Permit Number:	
U/L or Qtr/Qtr H Section 16 Township 30N Range 11W County: San Juan	
Center of Proposed Design: Latitude 36.81513 Longitude 107.99134 NAD: □1927 ☑ 198	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
2.	
Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A	
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L	x W x D
3.	
Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior ap intent)	proval of a permit or notice of
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
Liner Seams:	
4.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120bbl Type of fluid: Produced Water	
Tank Construction material: Steel	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other <u>Visible sidewalls, vaulted, automatic high-level shu</u>	ut off, no liner
Liner type: Thicknessmil	ut off, no liner
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	for consideration of approval.
Form C-144 Oil Conservation Division	Page 1 of 5

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)	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)	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☑ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Let's action and the provals and Exceptions: 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.	office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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 accertain material 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. ring pads or
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
	☐ Yes ⊠
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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 Within a 100-year floodplain.	☐ Yes 🛭 25/9/4
	· · · · · · · · · · · · · · · · · · ·
- FEMA map Form C-144 Oil Conservation Division Page 2 of	Aes Salar Alba Salar A
Form C-144 Oil Conservation Division Page 2 of	Releas

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age 3		
Temporary Pits, Emergency Pits, and Below-gra Instructions: Each of the following items must be	de Tanks Permit Application Attachm attached to the application. Please indi	ent Checklist: Subsection B of 19,15,17,9 NMAC leate, by a check mark in the box, that the documents are
☐ Siting Criteria Compliance Demonstrations - ☐ Design Plan - based upon the appropriate requ ☐ Operating and Maintenance Plan - based upor	ncy Pits) - based upon the requirements or based upon the appropriate requirements uirements of 19.15.17.11 NMAC in the appropriate requirements of 19.15.1	of Paragraph (2) of Subsection B of 19.15.17.9 NMAC of 19.15.17.10 NMAC
Previously Approved Design (attach copy of de	esign) API Number:	or Permit Number:
attached.	attached to the application. Please indi	icate, by a check mark in the box, that the documents are
Siting Criteria Compliance Demonstrations (Design Plan - based upon the appropriate req Operating and Maintenance Plan - based upo	only for on-site closure) - based upon the purements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15.10 pugh 18, if applicable) - based upon the appropriate requirements of 19.15 pugh 18, if applicable) - based upon the appropriate requirements of 19.15 pugh 19	ppropriate requirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of de	_	
		(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propo	ose to implement waste removal for closu	
attached. Hydrogeologic Report - based upon the requesting Criteria Compliance Demonstrations - Climatological Factors Assessment Certified Engineering Design Plans - based upon the Application Design - based upon the Application Sand Compatibility Asset Quality Control/Quality Assurance Construction Operating and Maintenance Plan - based upon Freeboard and Overtopping Prevention Plan Nuisance or Hazardous Odors, including Haste Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate results.	pon the appropriate requirements of 19.1 ign - based upon the appropriate requirements of 19.15 ign - based upon the appropriate requirements of 19.15.17.11 NM ssment - based upon the appropriate requition and Installation Plan on the appropriate requirements of 19.15 based upon the appropriate requirements of 19.15 based upon the appropriate requirements, Prevention Plan	s of 19.15.17.10 NMAC 15.17.11 NMAC nents of 19.15.17.11 NMAC IAC irements of 19.15.17.11 NMAC 17.12 NMAC ts of 19.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxe	es, Boxes 14 through 18, in regards to th	ne proposed closure plan.
Alternative Proposed Closure Method: Waste Excavation Waste Removal (0 On-site Closure M In-plac Alternative Closure 15. Waste Excavation and Removal Closure Plan C	and Removal Closed-loop systems only) ethod (Only for temporary pits and closed the Burial On-site Trench Burial the Method (Exceptions must be submitted hecklist: (19.15.17.13 NMAC) Instructation the box, that the documents are attached	to the Santa Fe Environmental Bureau for consideration) ions: Each of the following items must be attached to the add.
Closure plan. Please inalcate, by a check mark in Protocols and Procedures - based upon the a Confirmation Sampling Plan (if applicable) Disposal Facility Name and Permit Number Soil Backfill and Cover Design Specification Re-vegetation Plan - based upon the appropriate Site Reclamation Plan - based upon the appropriate Form C-144	ppropriate requirements of 19.15.17.13 N - based upon the appropriate requirement (for liquids, drilling fluids and drill cutti ns - based upon the appropriate requirement riate requirements of Subsection I of 19.1	MMAC s of Subsection F of 19.15.17.13 NMAC ngs) ents of Subsection H of 19.15.17.13 NMAC 5.17.13 NMAC 19.15.17.13 NMAC
Form C-144	Oil Conservation Division	Page 3 of 5

of 36		i
Page 4		
	Naste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13. Enstructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if nacilities are required.	NMAC) nore than two
ľ	Disposal Facility Name: Disposal Facility Permit Number:	
	Disposal Facility Name: Disposal Facility Permit Number:	
,	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future server Yes (If yes, please provide the information below) No	
	Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	2
	7. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distronsidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justiference Justine 1. Justiference of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
	Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
	Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
	Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
	Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
	Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
	Within a 100-year floodplain FEMA map	☐ Yes ☐ No
	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure proby a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cans Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	.15.17.11 NMAC 07.20
Received by G	Form C-144 Oil Conservation Division Page 4 of	ol 2 Moleused to M

19.		
Operator Application Certification: I hereby certify that the information submitted with this application.	on is true, accurate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	11-20-08
e-mail address: kim_champlin@xtoenergy.com		(505) 333-3100
OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OC	D Conditions (see attachment)
OCD Representative Signature: <u>Victoria Venegas</u>		Approval Date: 04/06/2022
Title: Environmental Specialist	OCD Permit Nu	mber:BGT1
21. Closure Report (required within 60 days of closure completion Instructions: Operators are required to obtain an approved closure report is required to be submitted to the division wit section of the form until an approved closure plan has been obtained.	sure plan prior to implementing an hin 60 days of the completion of th nined and the closure activities hav	y closure activities and submitting the closure report te closure activities. Please do not complete this
22.		
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ If different from approved plan, please explain.	od Alternative Closure Metho	d Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Close Instructions: Please indentify the facility or facilities for where two facilities were utilized.	d-loop Systems That Utilize Abov the liquids, drilling fluids and dril	e Ground Steel Tanks or Haul-off Bins Only: I cuttings were disposed. Use attachment if more th
Disposal Facility Name:	Disposal Facility	Permit Number:
Disposal Facility Name:		Permit Number:
Were the closed-loop system operations and associated activities Yes (If yes, please demonstrate compliance to the items be		ot be used for future service and operations?
Required for impacted areas which will not be used for future ser Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	vice and operations:	
24. Closure Report Attachment Checklist: Instructions: Each of mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for 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		NAD: □1927 □ 1983
25. Operator Closure Certification:		
I hereby certify that the information and attachments submitted w	vith this closure report is true, accur	ate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable		s specified in the approved closure plan.
Name (Print):		
Signature:	Date:	
e-mail address:	Telephone:	
Form C-144	Oil Conservation Division	ate and complete to the best of my knowledge and s specified in the approved closure plan. Page 5 of 5

NEW MEXICO

Gas Well Plat

-	Amba a mili a a mili a	Date 7-28-55	
Operator	Astec-State Unit \$3	#1	_
-	Lease	Well No	٥.
of Producing Fo	mation P.C.	Pool Aztec P	C
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Lodestar Service PO Box 4465, Durang		Pit Permit Siting Criteria Information Shee	Client: Project: Revised: Prepared by:	XTO Energy Pit Permits 22-Oct-08 Brooke Herb
API#:		3004509515	USPLSS:	T30N,R11W,S16H
Name:	A	ZTEC COM 3 #1	Lat/Long:	36.81513, -107.99134
Depth to groundwater:		50' - 100'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	4785' S	E of the Animas River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	1115 Irrigat	' S of Lower Animas ion Ditch; 3048' N of Villiams Arroyo		
Permanent residence, school, hospital,		No	Soil Type:	Entisols
institution or church within 300'		NO .		
			Annual Precipitation:	9.77 inches (Aztec)
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		Yes - Aztec	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
Within defined municipal fresh water well field		No		Aerial Photo, Topo Map, Mines Mills and Quarries Map
Wetland within 500'		No	Mining Activity:	1 C1 miles CC of Airm out Dia
Within unstable area		No		1.61 miles SE of Airport Pit
Within 100 year flood plain	No - F	EMA Flood Zone 'X'		
Additional Notes:				

AZTEC COM 3 #1 Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T30N, R11W, Section 16, Quarter Section H Latitude/Longitude: approximately 36.81513, -107.99134

County: San Juan County, NM

General Description: near Aztec, NM

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 below ground tank location will be located near Aztec, NM between the Animas and San Juan rivers. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

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. 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 nearby San Juan River and its tributaries.

The prominent soil type at the proposed site is entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes 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).

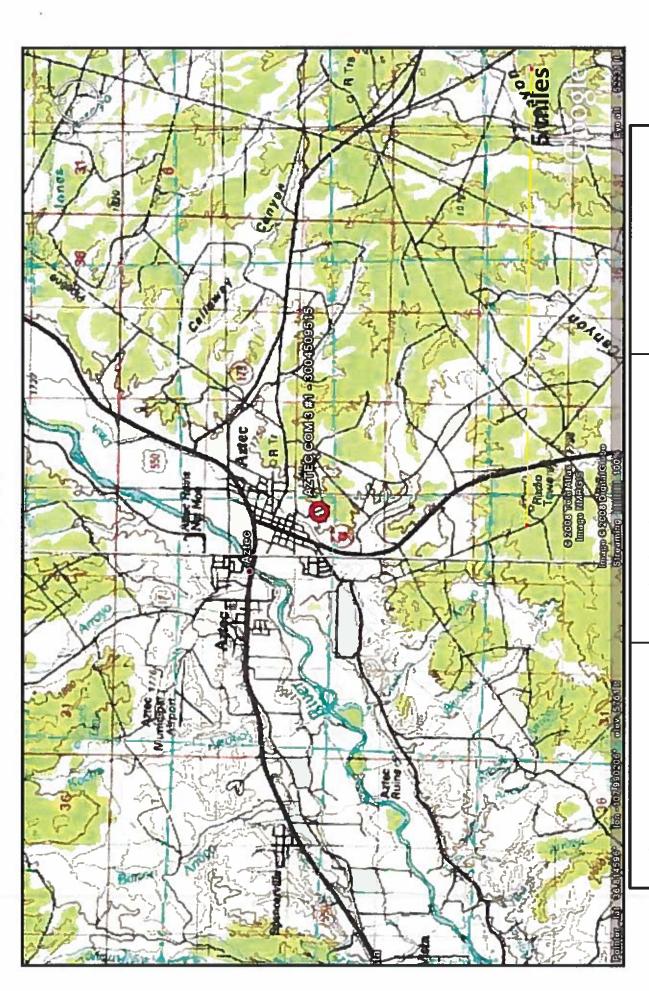
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Site Specific Hydrogeology

Depth to groundwater is estimated to be between 50 feet and 100 feet. This estimation is based on data from Stone and others, 1983 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.

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. However, the proposed site is situated over one mile to the south-southeast of the Animas River, and is approximately 140 feet higher in elevation (Google Earth).

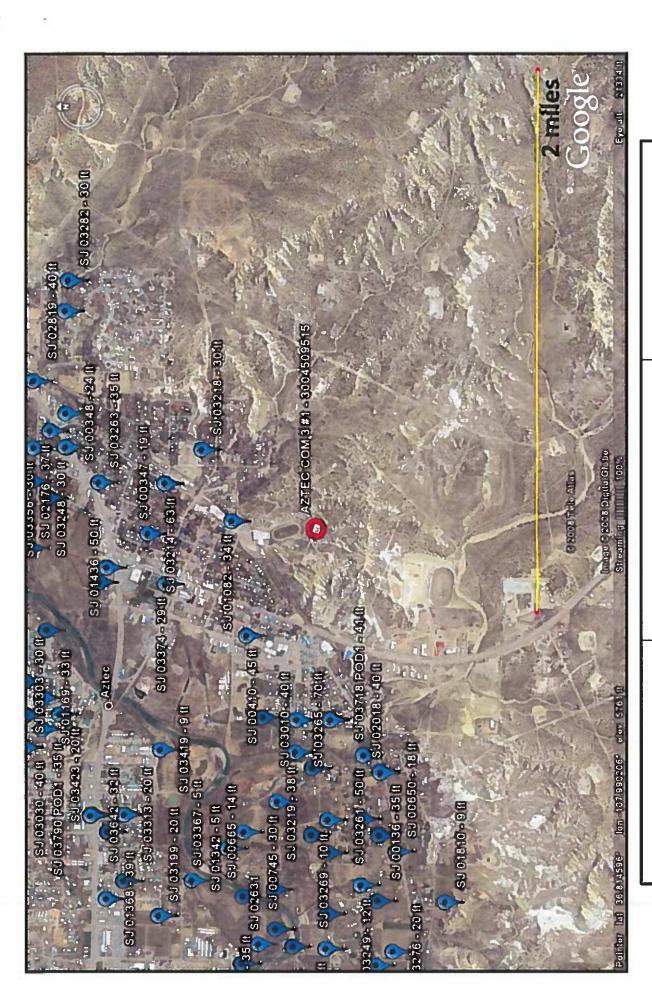
Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered to the north-northwest along the Animas River. Depth to groundwater within the nearby wells ranges from 9 feet to 63 feet below ground surface. The closest well to the proposed site is located approximately 1280 feet to the north, and is approximately 25 feet lower in topographic elevation (Google Earth). Depth to groundwater within the well is 34 feet below ground surface. A well to the west is approximately 120 feet lower in elevation then the proposed site, and has a depth to groundwater of 40 feet below ground surface. A well to the northeast is approximately 25 feet lower in elevation, and has a depth to groundwater of 30 feet below ground surface.



AZTEC COM 3 #1 Lodestar Services, Inc Durango, CO 81302 PO Box 4465

San Juan County, NM T30N, R11W, S16H

Topographic Map



Lodestar Services, Inc AZT PO Box 4465
Durango, CO 81302 San

AZTEC COM 3 #1 T30N, R11W, S16H San Juan County, NM

iWaters Groundwater Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

Township 300 Range: 110 Sections:

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/29/2008

9	(nor cers	a art	מבינ	Jge:	מ	(quarters are biggest to smallest)	lest)			Depth	Depth	Water (in feet)	<u>1</u>	feet)
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SJ 00350	36%	MET		d	64					th th	H	TP (F)		
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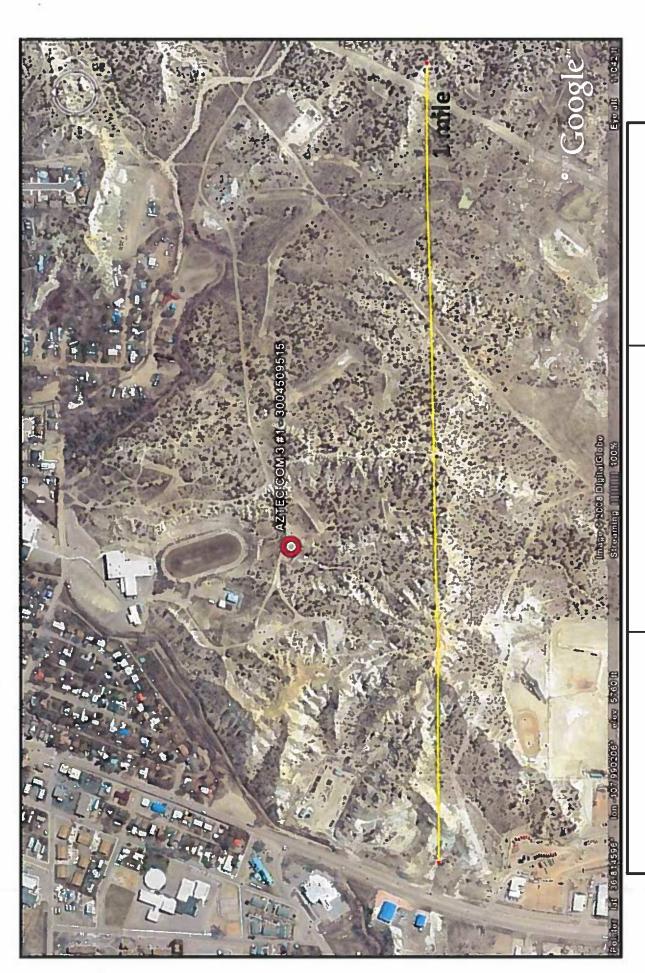
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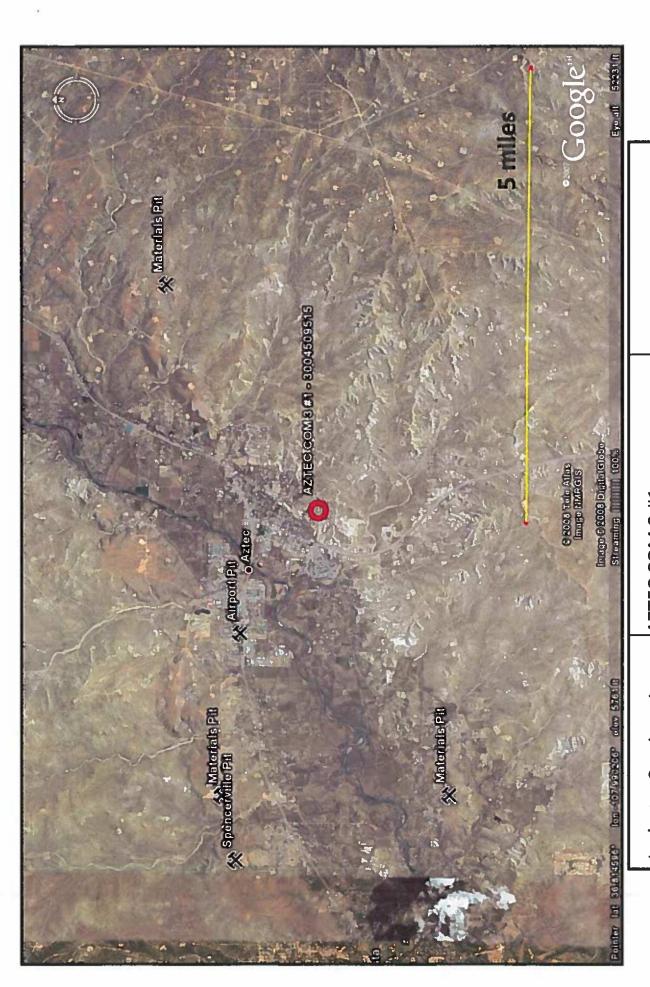
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Aerial Photograph

Lodestar Services, Inc PO Box 4465 Durango, CO 81302

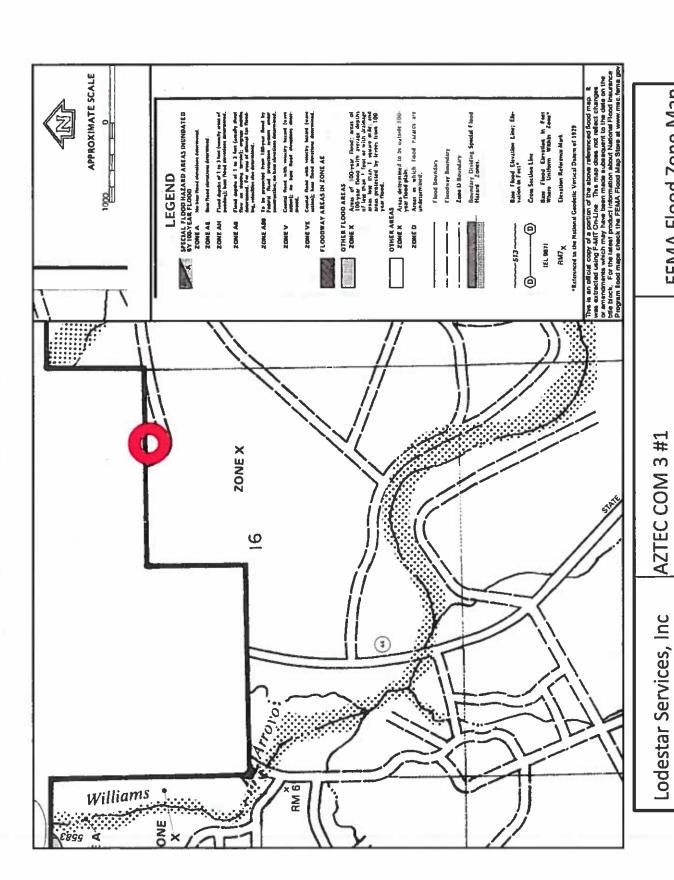
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Lodestar Services, Inc AZTEC PO Box 4465
Durango, CO 81302 San Ju

AZTEC COM 3 #1 T30N, R11W, S16H San Juan County, NM

Mines, Mills, and Quarries Map



San Juan County, NM T30N, R11W, S16H

FEMA Flood Zone Map

Durango, CO 81302

PO Box 4465

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.

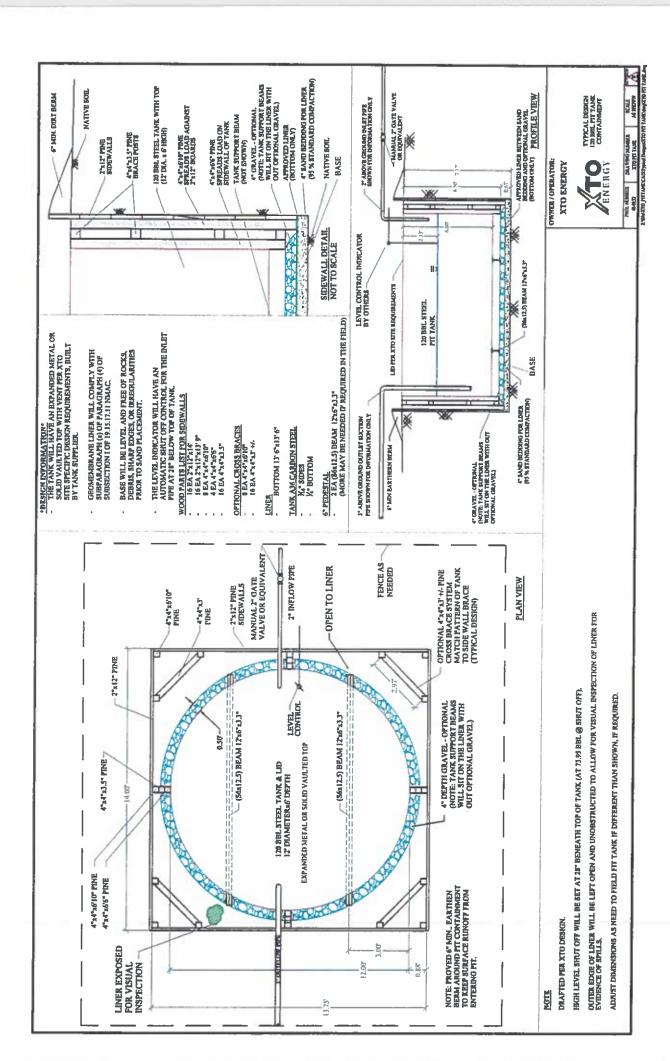
General Plan

- 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 '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

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).

- 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).
- 11. The general specifications for design and construction are attached.



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

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

General Plan

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

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Legals	Sec:		Township:		Range:			
XTO	Inspection	Inspection	Any visible liner	Anv visible signs of	Collection of surface	Visible laver	Any visible sions	Freeboard
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)		of a tank leak (Y/N)	Est (ft)
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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

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

General Plan

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

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

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated buttoms 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.
- XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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

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

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

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

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

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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; 11.
 - Inspection reports, Hi.
 - īv. Confirmation sampling analytical results;
 - Disposal facility name(s) and permit number(s): V.
 - VL Soil backfilling and cover installation,
 - Re-vegetation application rates and seeding techniques, (or approved alternative VII. to re-vegetation requirements if applicable);

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viii. Photo documentation of the site reclamation.

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 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 89724

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	89724
	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 ic	lentify the appropriate associations in the system.
Facility or Site Name	AZTEC COM 3 1
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	AZTEC COM 3 1
Well API, if associated with a well	30-045-09515
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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QUESTIONS, Page 2

Action 89724

QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street Houston, TX 77002	Action Number: 89724
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS	
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	rs)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' steel mesh
Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	expanded metal or 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 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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QUESTIONS, Page 3

Action 89724

QUESTIONS (continued)	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	89724
	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 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.

ting 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

posed 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	11/20/2008

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ACKNOWLEDGMENTS

Action 89724

ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

$\overline{\checkmark}$	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.
\overline{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 89724

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	89724
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By		Condition Date
vvenegas	None	4/6/2022