<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 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 NM87505

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

Existing BGT  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
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.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Baca Gas Com A#1
API Number: 3004526110 OCD Permit Number:
U/L or Qtr/Qtr H Section 26 Township 29N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.69925 Longitude 107.84946 NAD: ☐1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Salace Owner. Si recetal Sale Zi i i vale Si i i i alian i i i i alian i
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams:  Welded  Factory  Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thickness mil
5.  Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	hospital,
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:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	⊠ Yes □ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ⊠ No
Within a 100-year floodplain FEMA map	⊠ Yes □ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC   Previously Approved Design (attach copy of design)   API Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API Number:
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC   Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - 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  □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  □ 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

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St. Instructions: Please indentify the facility or facilities for the disposal of liquids, dr. facilities are required.	teel Tanks or Haul-off Bins Only: (19.15, 17.13) illing fluids and drill cuttings. Use attachment if	D NMAC) more than two
•	Disposal Facility Permit Number:	
	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur.  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 re Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19.15.17.13 MMA of 19.15.17.13 NMAC	AC
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the cl provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental I demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate dis Bureau office for consideration of approval. Jus	trict 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 of	obtained from nearby wells	☐ Yes ☐ No ☐ NA
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 of	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 of	obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signilake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	ficant watercourse or lakebed, sinkhole, or pleaya	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site; Aerial photo; Satellite i		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (co	ring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval		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 a	and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology of Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
On-Site Closure Pian Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of S Construction/Design Plan of Burial Trench (if applicable) based upon the app Construction/Design Plan of Temporary Pit (for in-place burial of a drying pactory Protocols and Procedures - based upon the appropriate requirements of 19.15.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of S Disposal Facility Name and Permit Number (for liquids, drilling fluids and drimed Soil Cover Design - based upon the appropriate requirements of Subsection H Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requ	rements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.11 NMAC 1) - based upon the appropriate requirements of 19.15.17.13 NMAC rements of Subsection F of 19.15.17.13 NMAC ubsection F of 19.15.17.13 NMAC 11 cuttings or in case on-site closure standards can of 19.15.17.13 NMAC of 19.15.17.13 NMAC	0.15.17.11 NMAC

Operator Application Certification:  I hereby certify that the information submitted with this application is	true, accurate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date: 1	1/24/08
/		(505) 333-3100
20.		
OCD Assurable D. Dameit Application (in abridge of some plan)	Closure Plan (only) 🔲 OCI	, ,
OCD Representative Signature:		Approval Date: (0/10/13
OCD Representative Signature:  Title:	OCD Permit Nur	nber:
Closure Report (required within 60 days of closure completion): Instructions: Operators are required to obtain an approved closure The closure report is required to be submitted to the division within a section of the form until an approved closure plan has been obtained	plan prior to implementing any 60 days of the completion of the I and the closure activities have	o closure activities and submitting the closure report. e closure activities. Please do not complete this e been completed.
	☐ Closure Con	npletion Date:
22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	☐ Alternative Closure Method	d  Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loc Instructions: Please indentify the facility or facilities for where the l two facilities were utilized.		
Disposal Facility Name:	Disposal Facility	Permit Number:
Disposal Facility Name:	-	Permit Number:
Were the closed-loop system operations and associated activities performed.  Yes (If yes, please demonstrate compliance to the items below)		t be used for future service and operations?
Required for impacted areas which will not be used for future service  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	and operations:	
24.  Closure Report Attachment Checklist: Instructions: Each of the financial mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-si Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)	te closure)	
On-site Closure Location: Latitude	Longitude	NAD: □1927 □ 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable closure (Print):	re requirements and conditions	
Signature:		
e-mail address:	Telephone:	

# OIL CONSERVATION DIVISION

# STATE OF NEW MEXICO CHERGY AND MINERALS DEPARTMENT

# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter lioundaries of the Jection.

Operator			Legae			Well No.
AMOCO PROD	UCTION COMPAN	Y .	BACA GAS CO	M "A"		1
Unit Letter	Section	Township	Range	County		
H	26	29N	10W	Sai	n Juan	
Actual Footage Loc 1670		orth line and	1175	fact form of t	East	Man
Ground Level Elev:	Producing For	Inte ond	Pool	feet from the		Itne
5534	Mesaver	1223 -	Blanco Mesav	erde		320 Acres
2. If more th		dedicated to the wel	•			lat below.
3. If more the dated by c	an one lease of dommunitization, to	nitization, force-pooli	ing. etc?	Communiti	zed	l owners been consoli-
this form i No allowat	f necessary.)	ed to the well until al	l interests have bee	n consolidat	ted (by commun	(Use reverse side of itization, unitization, proved by the Commis-
					CE	ERTIFICATION
	1 1		16701		tained herein	ly that the information con- is true and complete to the owledge and belief.
			117	\ '5'	B. D. Sha Position Admin. Su Company	
	Sec	•	.			duction Company
	r 1	26	<b>-</b>	· a W le l	shown on this	ify that the well location plat was plotted from field al surveys made by me or cryssion, and that the same
	 		REGE OCT 1	1 1984		correct to the best of my
	! ! !		OIL CO	N. DI <b>V.</b> T. 3	Date Surveyed October ( Registered Profe	5, 1981
	1		     		Fred B	(err St.
	Scal	e: 1"=1000"			3950	ACIA. IS

1		mia m	Client:	XTO Energy
Lodestar Service	es, Inc.	Pit Permit	Project:	Pit Permits
PO Box 4465, Durang	-	Siting Criteria	Revised:	17-Nov-08
V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Information Sheet	Prepared by:	Devin Hencmann
API#:[		3004526110	USPLSS:	29N, 10W, 26H
Name:	BAC	CA GAS COM A #1	Lat/Long:	36.69925/-107.84946
			Geologic	
Depth to groundwater:		< 50'	formation:	Naciemento
Distance to closest continuously flowing watercourse:	1,933' N	to the 'San Juan River'		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	110' NE t	o Munoz Canyon wash		
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
			Annual Precipitation:	Bloomfield: 8.71", Farmington: 8.21", Otis: 10.41"
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	Historical daily max: Bloomfield (4.19")
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	i-Waters report pdf
Within defined municipal fresh water well field		No		Topo map pdf, Aerial pdf, Mines and Quarrie Map pdf,i-Waters Ground Water Data Map pdf, FEMA flood zone map pdf
Wetland within 500'		· No	Mining Activity:	None
Within unstable area		No		
Within 100 year flood plain	Ye	s-FEMA Zone 'A'		

**Additional Notes:** 

1,954' S to concrete lined irrigation canal

215' SE to small pond

## BACA GAS COM A #1 Below Ground Tank Siting Criteria and Closure Plan

#### **Well Site Location**

Legals: T29N, R10W, Section 26H

Latitude/Longitude: approximately 36.69925, -107.84946

County: San Juan County, NM

General Description: near the San Juan River

### 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 near Munoz Canyon, just south of Bloomfield and the San Juan River. 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).

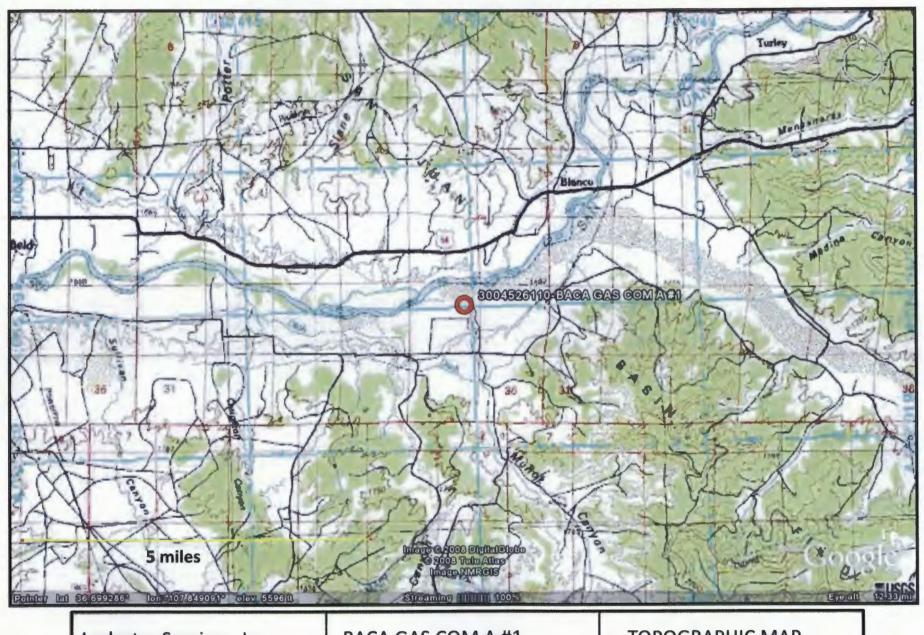
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

### Site Specific Hydrogeology

Depth to groundwater is estimated to be less than 50 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 San Juan River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 1,933 feet to the south of the San Juan River, and is approximately 8 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 of the proposed site along the San Juan River. Depth to groundwater within the nearby wells ranges from 6 feet to 186 feet below ground surface. The closest well to the proposed site is located approximately 3,500 feet to the southwest, and has a similar topographic elevation as the proposed site (Google Earth). Depth to groundwater within the well is 4 feet below ground surface. Another well to the southeast is about 30 feet higher in elevation then the proposed site, and has a depth to groundwater of 12 feet.



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 BACA GAS COM A #1 T29N, R10W, S26H San Juan county, NM **TOPOGRAPHIC MAP** 



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 BACA GAS COM A #1 T29N, R10W, S26H San Juan county, NM i-Waters Ground Water Data Map

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

## WATER COLUMN REPORT 10/20/2008

							3=SW 4=SE)						
	(quarter	s are	e bi	gge	est	to	smallest)			Depth	Depth	Water	(in feet)
POD Number	Twa	Rng	Sec	P	q	P	Zone	X	Y	Well	Water	Column	
SJ 00867	29N	11W	07	4						77	55	22	
SJ 01302	29N	11W	07	4	1					250	210	40	
SJ 01891	29N	11W	07	4	1	3				157			
SJ 01851	29N	11W	10	4	4					125	48	77	
SJ 02466 S	29N	11W	11	4	3	3				65			
SJ 02466	29N	11W	11	4	3	3				66			
SJ 02991	29N	11W	13	3	4	2				60			
SJ 03136	29N	11W	13	3	4	4				20			
SJ 00987	29N	11W	13	4						415	300	115	
SJ 01426	29N	11W	14	1	4					155	10	145	
SJ 00007	29N	11W	14	2	2	3				752			
SJ 03550	29N	11W	14	3	2	1				10			
SJ 01774	29N	11W	14	3	4	2				82	6	76	
SJ 03360	29N	11W	14	3	4	2				40			
SJ 03175	29N	11W	14	4	2	1				60	24	36	
SJ 03164	29N	11W	14	4	2	1				75	56	19	
SJ 03733 POD1	29N	11W	15	4	2	1				64	20	44	
SJ 02378	29N	11W	15	4	3	2				75	12	63	
SJ 03579	29N	11W	15	4	4	1				83	30	53	
SJ 02141	29N	11W	16	4	3	4				110	40	70	
SJ 02926	29N	11W	17	2	4	3				375	80	295	
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SJ 02026	29N	11W	19	3	1		4400	000	2077700	27	6	21	
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SJ 01250	29N	11W	19	4	4					60	20	40	
SJ 02869	29N	11W	20	2	2	1				50			
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SJ 01355	29N	11W 20	4 4	1		36	3	33
SJ 00452	29N	11W 21				42	10	32
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SJ 00701	29N	11W 21	2 2	1		73		
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SJ 01888	29N	11W 21	4 2	2 2	2	47	8	39
SJ 02200	29N	11W 22				60	22	38
SJ 01557	29N	11W 22	1 2	2		70	11	59
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SJ 01703	29N	11W 22	1 2	2		68	3	65
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SJ 02813	29N	11W 22	1 2	2 3	3	59	16	43
SJ 01214	29N	11W 22	1 3	3		49	12	37
SJ 00484	29N	11W 22	1 3	3 1		37	10	27
SJ 00320	29N	11W 22	1 3	3 1	L	38	10	28
SJ 03532	29N	11W 22	1 3	3	3	49	14	35
SJ 00151	29N	11W 22	1 3	3 4	1	45	18	27
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SJ 03503	29N	11W 22	_	3	3	72	18	54
SJ 02578	29N	11W 22		3		58	24	34
SJ 03093	29N	11W 22	-	3 4		42	22	20
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SJ 03188	29N	11W 22		2 2	2	45	11	34
SJ 02020	29N	11W 22	3	3		27	6	21
SJ 02138	29N	11W 22	4	2		40	7	33
SJ 02529	29N	11W 22	4 :	2 3	3	30	9	21
SJ 03479	29N	11W 22	4 :	2 3	3	43	4	39
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SJ 03567	29N	11W 23	1 :	2 3	3	50	22	28
SJ 03557	29N	11W 23	1 :	3 1	L	50	15	35
SJ 03558	29N	11W 23	_	3 1		50	15	35
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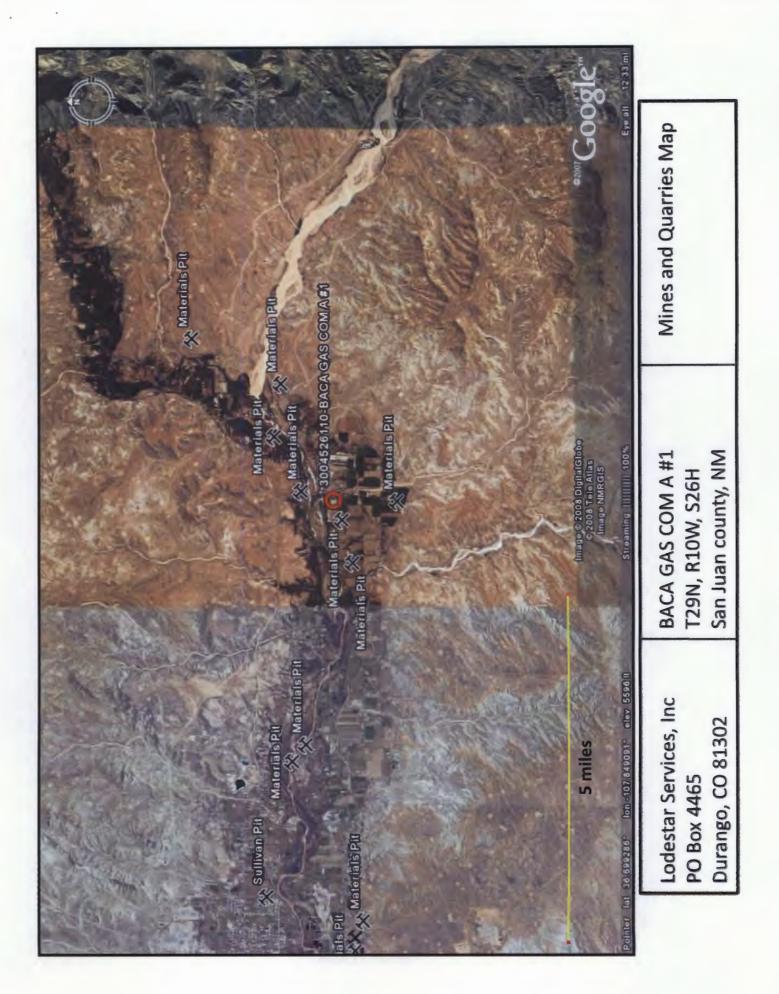
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SJ 00804	29N	11W 25		. 4				37	25	12
SJ 01808 0-5	29N	11W 26		3 1	1			52	43	9
SJ 02121	29N	11W 27		1				30	6	24
SJ 02210	29N	11W 27		1				32	8	24
SJ 03588	29N	11W 27		1	2					
SJ 02227	29N	11W 27		1	4			27	6	21
SJ 00700	29N	11W 27		1 3	3			20	7	13
SJ 01808 0-4	29N	11W 27		2 3	3			32	25	7
SJ 01808 0-1	29N	11W 27		2 4	2			25	17	8
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SJ 01808 0-3	29N	11W 27		2 4	4			39	34	5
SJ 02664	29N	11W 27	1	3 2				40	26	14
SJ 02664 S	29N	11W 27	,	3 2				38	23	15
SJ 02664 S-2	29N	11W 27		3 2				34	19	15
SJ 02664 S-3	29N	11W 27		3 2				41	30	11
SJ 02664 S-9	29N	11W 27		3 2				33	19	14
SJ 02664 S-4	29N	11W 27	,	3 2				42	30	12
SJ 02664 S-10	29N	11W 27	,	3 2				33	19	14
SJ 02664 S-5	29N	11W 27		3 2				41	30	11
SJ 02664 S-6	29N	11W 27		3 2				40	28	12
SJ 02664 S-7	29N	11W 27		3 2				37	23	14
SJ 02664 S-8	29N	11W 27		3 2				35	25	10
SJ 02148	29N	11W 27		4 2				305	186	119
SJ 01808 0-6	29N	11W 27		4 2				50		
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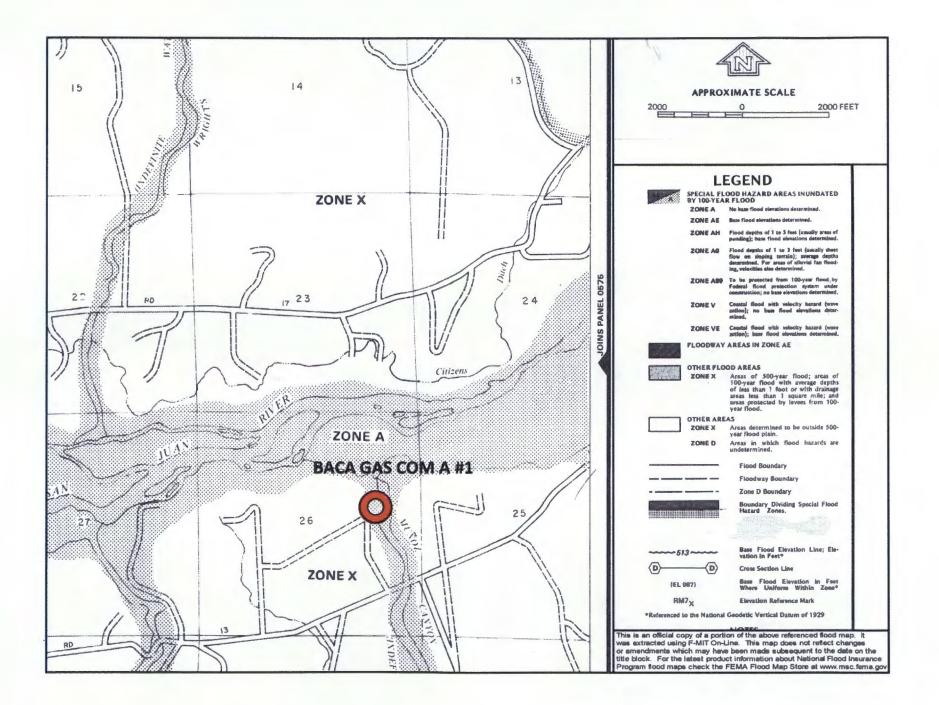
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SJ 02559	29N	11W :	28	1	2	4			15	7	8
SJ 02330	29N	11W :	28	2	1				128	115	13
SJ 03021	29N	11W :	28	2	1	3			16	5	11
SJ 01606	29N	11W :	28	2	2				35	8	27
SJ 03468	29N	11W :	28	2	4		367704	2073506	50		
SJ 03469	29N	llW :	28	2	4	3			50		
SJ 02713	29N	11W :	28	3	1	1			26	12	14
SJ 02858	29N	11W :	28	3	1	3			40		
SJ 02714	29N	11W :	28	3	2				43	28	15
SJ 02708	29N	11W :	28	3	2				26	12	14
SJ 03149	29N	11W	28	4	2	2			60	35	25
SJ 03475	29N	11W :	29	1	1	3			40	20	20
SJ 00292	29N		29	2	1	4			24	9	15
SJ 01554	29N	11W	29	2	2				35	18	17
SJ 02038	29N		29	4	1				14	4	10
SJ 03298	29N	11W	29	4		1			70	6	64
SJ 02023	29N	11W	29	4	2				24	7	17
SJ 02182	29N	11W	29	4	2				27	11	16
SJ 00822	29N	11W	29	4	3				34	15	19
SJ 03421	29N	11W	29	4	4	3			50	28	22
SJ 01391	29N	11W	30	2					40	25	15
SJ 03348	29N	11W	30	2	1	3			60		
SJ 01260	29N	11W	30	2	2				42	16	26
SJ 01264	29N	11W	30	2	2				27	12	15
SJ 01328	29N	11W	30	2	2				28	15	13
SJ 01821	29N		30	2	4				70	6	64
SJ 00875	29N	11W	30	4	1				37	20	17
SJ 02922	29N	11W	31	3	2	2			75		
SJ 03795 POD1	29N	11W	31	3	2	4	266438	2067001	75	45	30
SJ 03541	29N	11W	31	3	4	1			80	40	40
SJ 00441	29N	11W	32	2	2						
SJ 00103	29N	11W	32	4	4	4			263		
SJ 00103 S	29N		32	4	4	4			254		
SJ 03666	29N		33	2	1	3			49	30	19



Lodestar Services, Inc PO Box 4465 Durango, CO 81302

BACA GAS COM A #1 T29N, R10W, S26H San Juan county, NM **AERIAL PHOTOGRAPH** 





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

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

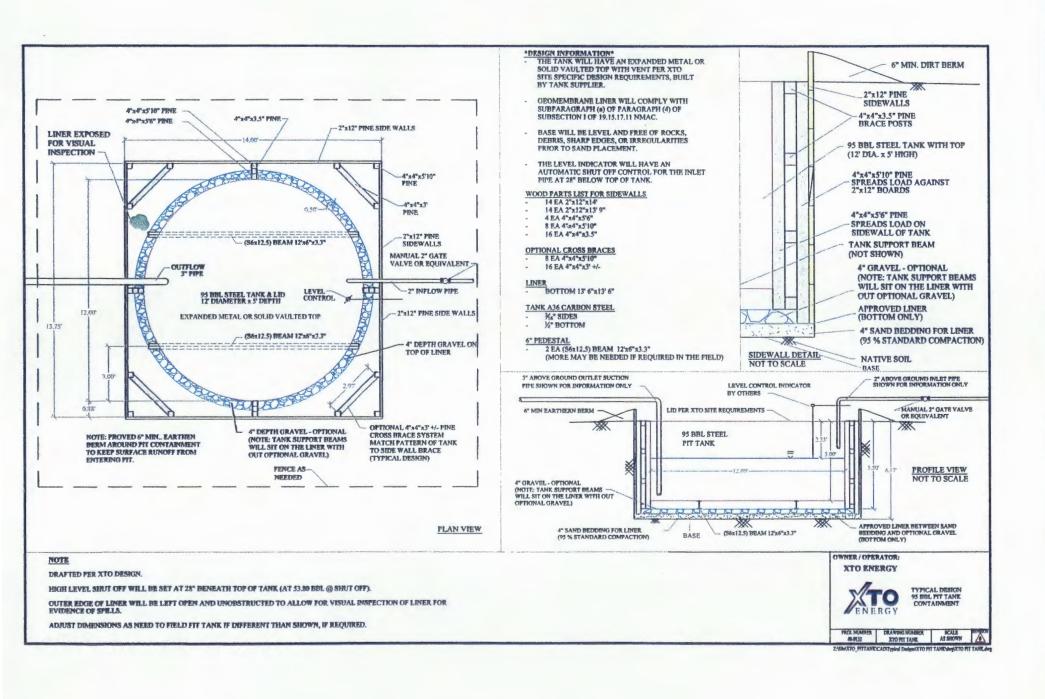
#### General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ½ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and 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.
- 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.
- XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
  - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

Well Name

API#

Sec., Twn., Rng.

XTO Inspector's name

Inspection date and time

Visible tears in liner

Visible signs of tank overflow

Collection of surface run on

Visible layer of oil

Visible signs of tank leak

Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 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,

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

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

		MONT	ILY BELO	W GRADE TANK I	NSPECTIO	N FORM		
Well Nan	ne:				API No.:			
gals	Sec:		Township:		Range:			
XTO Inspector's		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)
		ļ	<u> </u>			ļ		
		<del> </del>			<del> </del>			
otes:	Servide S	A-D	intin			.1		
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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

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

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

Soil contaminated by exempt petroleum hydrocarbons

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

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 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 pending, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - 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.