Form C-144 July 21, 2008

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 permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and

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

Proposed Alternative Method Permit or Closure Plan Application

Propos	sed Alternative Method P	ermit or Closure Plan A	Application
Existing BGT	☐ Permit of a pit, closed-loop sys☐ Closure of a pit, closed-loop sy☐ Modification to an existing per☐ Closure plan only submitted for	stem, below-grade tank, or prop mit	posed alternative method
	k, or proposed alternative method		
	one application (Form C-144) per ind		
environment. Nor does approval relieve	quest does not relieve the operator of liab the operator of its responsibility to compl	lity should operations result in polluti with any other applicable government	ion of surface water, ground water or the ntal authority's rules, regulations or ordinances.
Operator: XTO Energy, Inc.		OGRID #:	5380
Address: #382 County Road 3	100, Aztec, NM 87410		
	FF GAS COM C # 4		
	Township 30N Range		
Center of Proposed Design: Latitude	2 <u>36.77944</u> Longitude	<u>10</u> '8.07972 NAD: □1927	☑ 1983
Surface Owner: Federal State	□ Private □ Tribal Trust or Indian All	otment	
String-Reinforced Liner Seams:	witation P&A Thicknessmil LLDPE y Other on H of 19.15.17.11 NMAC	bbl Dime ng (Applies to activities which requ r PE HDPE PVC Other	ensions: Lx Wx D uire prior approval of a permit or notice of
Tank Construction material: Secondary containment with leal Visible sidewalls and liner	bl Type of fluid: Produced Wa	6-inch lift and automatic overflow	
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)	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 vauited top										
Monthly inspections (If netting or screening is not physically feasible)										
8. Signs: Subsection C of 19.15.17.11 NMAC										
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers										
Signed in compliance with 19.15.3.103 NMAC										
∑ signed in compnance with 15.15.5.105 NWAC										
9. Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.										
Please check a box if one or more of the following is requested, if not leave blank:										
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.	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 accept material 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 a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.									
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No									
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No									
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	⊠ Yes ☐ No									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No									
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No									
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ 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									

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 Liner Specifications and Compatibility Assessment - 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection 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 G of 19.15.17.13 NMAC	

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.									
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 service and operations? 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 NMA 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	С								
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 districtions of exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations 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								
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 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. - 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	☐ Yeş ☐ 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	☐ Ye.□ 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 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 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 cant 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	.15.17.11 NMAC								

* b		
Operator Application Certification: I hereby certify that the information submitted with this application is true.	ue, accurate and complete to the	e best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	11.25.08
e-mail address: kim_champlin@xtoenergy.com		(505) 333-3100
44		
OCD Approval: Permit Application (including closure plan)		, ,
OCD Representative Signature:		Approval Date: 12/10/15
Title: Buzza ChueF	OCD Permit Numb	er:
Closure Report (required within 60 days of closure completion): Su Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained a	in prior to implementing any condays of the completion of the comp	losure activities and submitting the closure report. closure activities. Please do not complete this seen completed.
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liquitum facilities were utilized.		
Disposal Facility Name:	Disposal Facility Per	rmit Number:
Disposal Facility Name:	Disposal Facility Pe	rmit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)	ned on or in areas that will not b	
Required for impacted areas which will not be used for future service an Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:	
Closure Report Attachment Checklist: Instructions: Each of the fold 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-site of 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		to the closure report. Please indicate, by a check NAD: 1927 1983
	_ roughtude	17AD. [1927] 1703
Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

DISTRICT 1
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico ergy, Minerals & Natural Resources Departm

Form C-102 Revised August 15, 2000

SEC. COR. FD 3 1/4 BLM 1975

BC

N 88-26-01 W

5072.71' (M)

OIL CONSERVATION DIVISION

Submit to Appropriate District Office. State Lease — 4 Copies Fee Lease — 3 Copies

DESTRICT W 1000 Rio Bruzos Rd., Aziso, N.M. 87410 2040 South Pacheco Santa Fe, NM 87505 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT ⁸ Pool Name ¹ Pool Code BASINI . 71679 PRUITLAND COAL ⁵ Properly Name 22692 DUFF GAS COM "C" 4 ⁸Operator Name OGRID No. Elevation 167067 XTO ENERGY INC. 5624 10 Surface Location North/South line Fast from the East/West Ilne UL or lot no. Section Lot Idn fact from the Township County SOUTH 860' EAST SAN JUAN P 30-N 12-W 1060' 11 Bottom Hole Location If Different From Surface North/South Ilne Feet from the UL or lot no. Township Let Idn Feet from the County Section Dedloated Acres 13 Joint or Infill 14 Consolidation Code 19 Order No. 320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION JEFFREY PATTON FD 3 1/4" BC BLM 1976 DRILLING ENSINEER SURVEYOR CERTIFICATION LAT: 3646'46" N (NAD 83) LONG: 108'04'47" W. (NAD 83)

SEC. COR.

FD 3 1/4" BLM 1975 BC



Pit Permit Siting Criteria Information Sheet

Client:	XTO Energy	
Project:	Pit Permits	
Revised:	14-Nov-08	
Prepared by:	Brooke Herb	

FO BOX 4403, Durango,	,00 01302	Information Sheet	Prepared by:	Brooke Herb
API#:		3004531284	USPLSS:	T30N,R12W,S27P
Name:	DU	FF GAS COM C #4	Lat/Long:	36.77944, -108.07972
Depth to groundwater:		< 50'	Geologic formation:	Nacimiento Formation
Distance to closest continuously flowing watercourse:	2827' 5	of the Animas River		
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	79' N	I of irrigation ditch		
			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		
			Annual Precipitation:	8.21 inches (Farmington)
Domestic fresh water well or spring within 500'	yes - 46	52' SE of iWaters well SJ01572	Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'	Yes - 6	52' E of iWaters well SJ03641		
Within incorporated municipal boundaries		No	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:	
Within unstable area	Z. 1211. 2	No		1.81 miles NE of Foutz Pit
Within 100 year flood plain	No - F	EMA Flood Zone 'X'		
plain	NO-F	LIVIA FIOOU ZOITE A		

DUFF GAS COM C #4 Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T30N, R12W, Section 27, Quarter Section P Latitude/Longitude: approximately 36.77944, -108.07972

County: San Juan County, NM

General Description: near Animas River and Crouch Mesa

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 on Crouch Mesa 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).

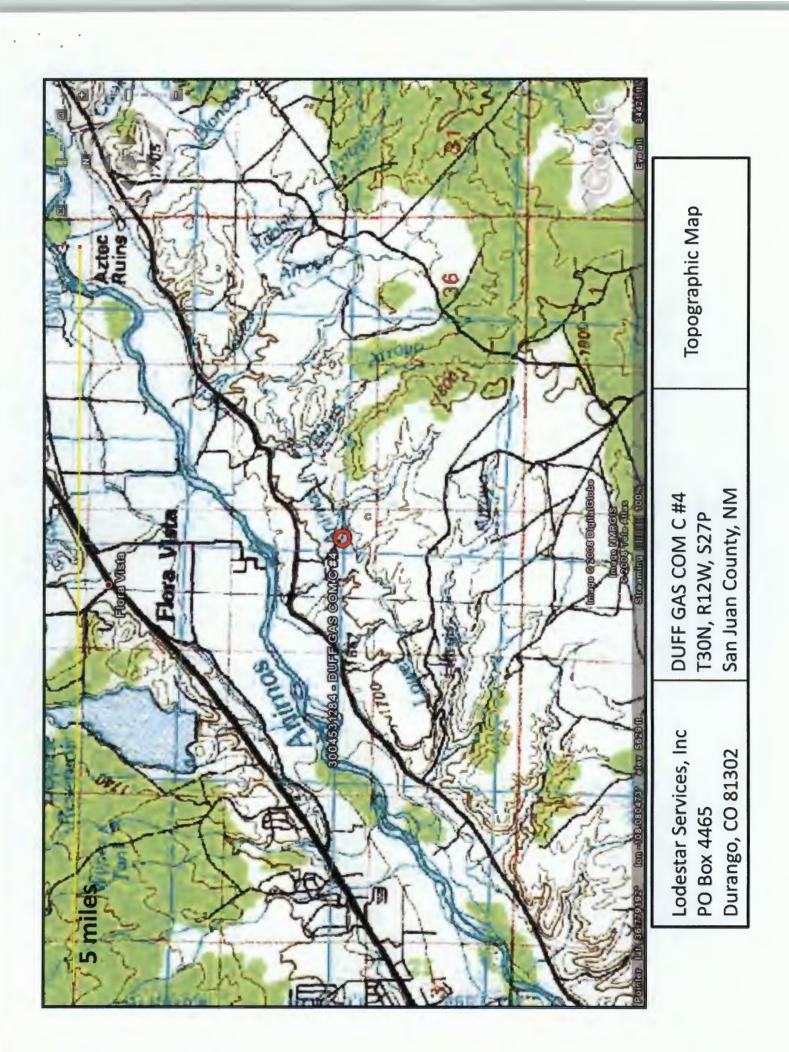
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

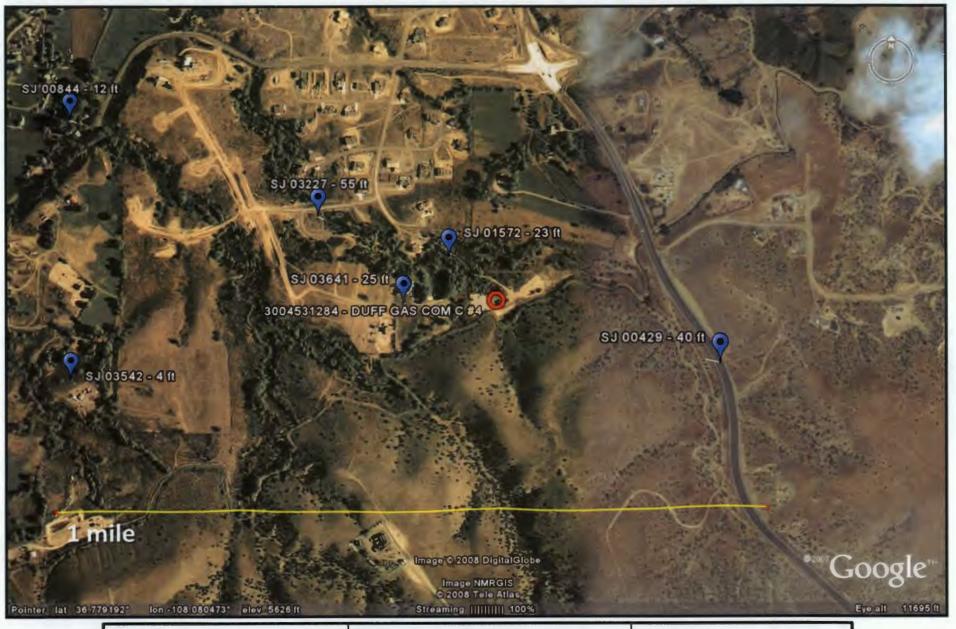
Site Specific Hydrogeology

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 Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 2827 feet to the south, and is 160 feet higher in elevation then the Animas River (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. Depth to groundwater within the surrounding wells ranges from 4 to 55 feet below ground surface. Elevation at the proposed site is approximately 5621 feet (Google Earth). The closest well to the proposed site is to the northwest at an approximate elevation of 5590 feet, and has a depth to groundwater of 23 feet below ground surface. A well to the west is at an approximate elevation of 5608 feet, and has a depth to groundwater of 25 feet below ground surface. The shallow groundwater data from the surrounding wells, as well as the close proximity to the Animas River and an irrigation ditch suggests that groundwater at the proposed site is less than 50 feet below ground surface.





Lodestar Services, Inc PO Box 4465 Durango, CO 81302 DUFF GAS COM C #4 T30N, R12W, S27P San Juan County, NM

iWaters Groundwater Data Map

SJ 01148	30N	12W 23	4	140	80	60
SJ 03380	30N	12W 23	4 1 1	42	7	35
SJ 03375	30N	12W 23	4 1 1	42	7	35
SJ 03664	30N	12W 23	4 1 3	22	6	16
SJ 02653	30N	12W 23	4 1 3	21	9	12
SJ 03665	30N	12W 23	4 1 3	25	6	19
SJ 03663	30N	12W 23	4 1 4	32	8	24
SJ 01513	30N	12W 23	4 2	31	7	24
SJ 01272	30N	12W 23	4 2 1	35	12	23
SJ 03506	30N	12W 23	4 2 2	40	8	32
SJ 03156	30N	12W 23	4 2 2	14	8	6
SJ 00117	30N	12W 23	4 2 3	38	20	18
SJ 00114	30N	12W 23	4 2 3	40	20	20
SJ 01381	30N	12W 23	4 3	29	10	19
SJ 00111	30N	12W 23	4 3	28	18	10
SJ 00896	30N	12W 23	4 4	40	20	20
SJ 03638	30N	12W 23	4 4 1	38	10	28
	-					
SJ 02032	30N	12W 27	1 2	35	5	30
SJ 00127 X	30N	12W 27	1 2	36	15	21
SJ 00127	30N	12W 27	1 2	30	5	25
SJ 01646	30N	12W 27	1 3	23	6	17
SJ 01599	30N	12W 27	1 3	25	6	19
SJ 01617	30N	12W 27	1 3	24	4	20
SJ 01239	30N	12W 27	1 3 3	23	5	18
SJ 00963	30N	12W 27	1 4 2	106	50	56
SJ 02829	30N	12W 27	1 4 2	26	10	16
SJ 02700	30N	12W 27	2 1	21	7	14
SJ 01530	30N	12W 27	2 1	33	10	23
SJ 01694	30N	12W 27	2 1	32	6	26
SJ 01988	30N	12W 27	2 1	29	18	11
SJ 02620	30N	12W 27	2 1 1	30	10	20
SJ 03254	30N	12W 27	2 1 1	35	10	25
SJ 03243	30N	12W 27	2 1 2	35	6	29
SJ 02784	30N	12W 27	2 1 2	30		
SJ 00276	30N	12W 27	2 1 2	35	3	32
SJ 03433	30N	12W 27	2 1 2	25		
SJ 03496	30N	12W 27	2 1 4	50	10	40
SJ 03120	30N	12W 27	2 3 2	70		
SJ 02498	30N	12W 27	3 1 1	21	5	16
	-					

SJ 00844	30N	12W	27	3	1	2			31	12	19
SJ 03761 POD1	30N	12W	27	3	3	1	264712	2103138	65	35	30
SJ 03542	30N	12W	27	3	3	4			8	4	4
SJ 01572	30N	12W	27	4					43	23	20
SJ 03227	30N	12W	27	4	1	3			70	55	15
SJ 03641	30N	12W	27	4	3	2			60	25	35

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30h Range: 12V Sections: 28,29,30,31,32,33

WATER COLUMN REPORT 11/13/2008

							3=SW 4=SE					**- 4		
POD Number	uarter Tws		Sec				Zone Zone) X	Y	Depth	Depth	Column	(in fe	et)
SJ 00282	30N	12W		4	4	A	DOME	**	•	84	52	32		
SJ 00122 CLW283728		12W		1	3					126	61	65		
SJ 01309	30N	12W		1	3					55	32	23		
SJ 00122	30N	12W		1	3	2				80	40	40		
SJ 02142	30N	12W		1	4					55	35	20		
SJ 01275	30N	12W	28	1	4	3				30	5	25		
SJ 02016	30N	12W	28	2	1					120	56	64		
SJ 01129	3 ON	12W	28	2	1	2				40	10	30		
SJ 03702	30N	12W	28	2	2	3				30	S	25		
SJ 03702 POD1	30N	12W	28	2	2	3				30	5	25		
SJ 00346	30M	12W	28	2	3	1				41	15	26		
SJ 03796 POD1	30N	12W	28	3	1	2	264	258	2104657	22	5	17		
SJ 02571	30N	12W	28	4	1	3				21	6	15		
SJ 03096	30N	12W	28	4	3	4				125				
SJ 00669	30N	12W	28	4	4					70	30	40		
SJ 02833	30M	12W	28	4	4	1				50				
SJ 03383	30N	12W	28	4	4	3				50	20	30		
SJ 03688	30N	12W	28	4	4	3				50	25	25		
SJ 03688 POD1	30N	12W	28	4	4	3				50	25	25		
SJ 02022	30N	12W	29	3						297	100	197		
SJ 03187	30M	12W	29	3	1	1				160	29	131		
SJ 02476	30N	12W	29	3	2	1				225	185	40		
SJ 03280	30N	12W	29	3	_	4				100				
SJ 03358	30N	12W	29	3	3	1				100	60	40		
SJ 03278	30M	12W		3	3	3				120	40	80		
SJ 03279	3 OM	12W	_	3	3	4				120	60	60		
SJ 00536	30M	12W		4						50	28	22		
SJ 02309	30N	12W	29	4	1	2				50	27	23		

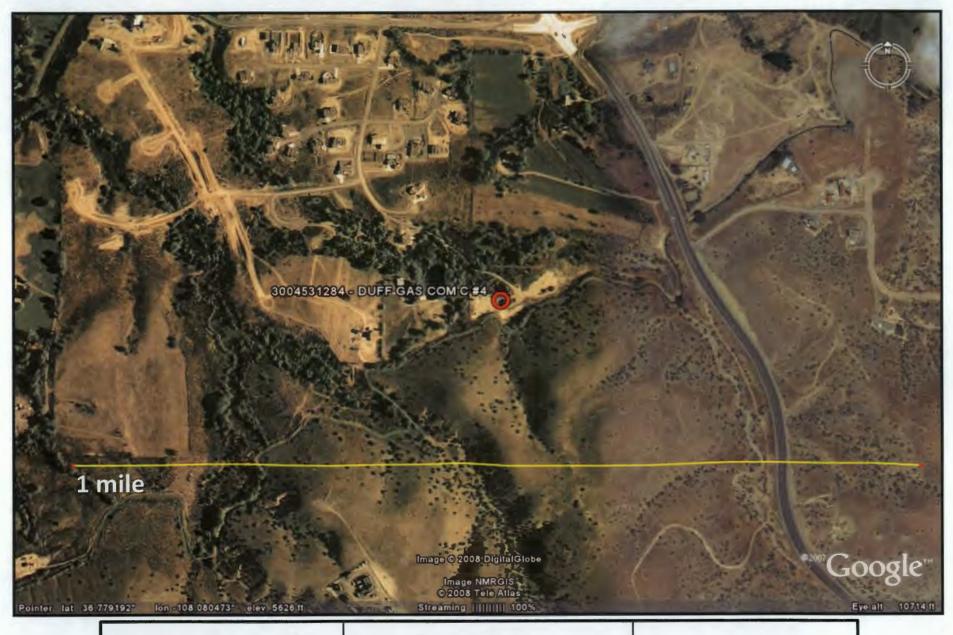
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SJ 01006	30N	12W 30	1			38	16	22
SJ 01314	30N	12W 30	1 1	. 1	1	240	220	20
SJ 01637	30N	12W 30	3 3	3		127	52	75
SJ 01632	30N	12W 30	3 4	4	4	175	87	88
SJ 02219	30N	12W 30	4 4	Ŀ		240	80	160
SJ 03361	30N	12W 31	1 1	. 4	4	150		
SJ 03365	30M	12W 31	2 3	3 2	2	50		
SJ 03132	30N	12W 31	2 3	3 4	4	58	32	26
SJ 03145	30N	12W 31	2 3	3 4	4	49	32	17
SJ 00223	30N	12W 31	2 4	ŀ		63	22	41
SJ 00170	30N	12W 31	2 4	Ŀ		45	20	25
SJ 03236	30N	12W 31	2 4	2	2	63	15	48
SJ 03174	30N	12W 31	2 4	1 2	2	60	46	14
SJ 03331	30M	12W 31	2 4	2	2	67	18	49
SJ 03161	30M	12W 31	2 4	1 3	3	62	47	15
SJ 03252	30M	12W 31	2 4	4	4	42	11	31
SJ 03237	30M	12W 31	2 4	4	4	70		
SJ 03150	30M	12W 31	2 4		4	53	30	23
SJ 01236	30M	12W 31	3 2	2		50	38	12
SJ 02815	30M	12W 31	3 4	2	2	30		
SJ 03148	30N	12W 31	4]	. 1	L	56	34	22
SJ 03051	30M	12W 31	4]	. 2	2	40	24	16
SJ 03147	30N	12W 31	4]	_		49	28	21
SJ 02882	30N	12W 31	4]	_		33	19	14
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SJ 02792	30M	12W 31	4]			49	30	19
SJ 03296	30N	12W 31	4]		2	56	30	26
SJ 03409	30M	12W 31	4]		-	44	24	20
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SJ 03602	30N	12W 31	4]		-	31	7	24
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SJ 02213	30M	12W 32	1			33	13	20
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SJ 02166	30N	12W 32	1			33	10	23

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SJ 01664	30N	12W 32		1	32	16	16
SJ 03516	30N	12W 32	1 1	2	70	35	35
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SJ 03610	30N	12W 32	1 1	2	80	50	30
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SJ 02246	30N	12W 32	1 3		19	9	10
SJ 02117	30M	12W 32	1 3		40	19	21
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SJ 02211	30N	12W 32	1 3		25	11	14
SJ 02220	30N	12W 32	1 3		28	10	18
SJ 01832	30N	12W 32	1 3		41	10	31
SJ 02286	30M	12W 32	1 3		40	18	22
SJ 02262	30M	12W 32	1 3				
SJ 02177	30N	12W 32	1 3		35	11	24
SJ 02311	30M	12W 32	1 3		34	11	23
SJ 02982	30N	12W 32	1 3	1	36	10	26
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SJ 02942	30N	12W 32	1 3	1	35	19	16
SJ 03009	30N	12W 32	1 3	2	37	10	27
SJ 03190	30N	12W 32	1 3	3	25	8	17
SJ 03748 POD1	30N	12W 32	1 3	3			
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SJ 00190	30N	12W 32	1 4		34	15	19
SJ 02239	30N	12W 32	2 1	2	65	17	48

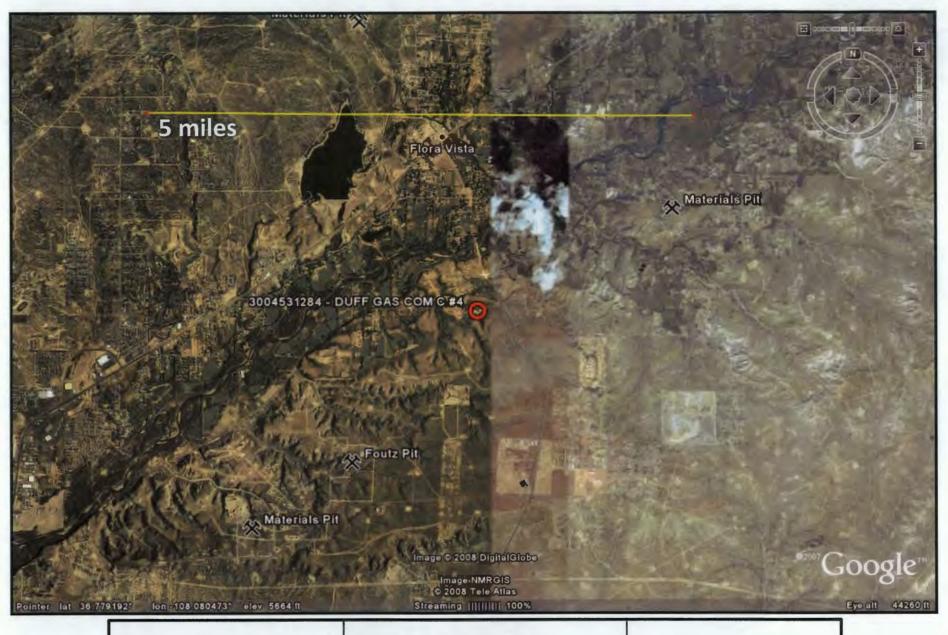
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SJ 00116 S	30N	12W 32	2	3	3		25		
SJ 03606	30N	12W 32	3	4	3		67	49	18
SJ 02908	30N	12W 32	4	2	4		50		
SJ 03779 POD1	30N	12W 32	4	2	4	263644 2098600	26	8	18
SJ 02804	30N	12W 32	4	3	4		50		
SJ 00519	30N	12W 32	4	4	3		24	12	12
SJ 03349	30M	12W 33	1	2	1		55		
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SJ 03110	30N	12W 33	1	2	4		320	54	266
SJ 01174	30N	12W 33	1	3			36	19	17
SJ 01390	30N	12W 33	1	3			40	22	18
SJ 03143 POD2	30N	12W 33	1	4	2		40	10	30
SJ 03133	30N	12W 33	1	4	4		39	20	19
SJ 00605	30N	12W 33	2	1	2		72	35	37
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SJ 02981	30N	12W 33	2	1	2		100	60	40
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SJ 03140	30N	12W 33	2	3	1		42	20	22
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SJ 03614	30N	12W 33	2	3	3		42	33	9
SJ 01256	30N	12W 33	2	4			250	160	90
SJ 00444	30N	12W 33	2	4			66	34	32
SJ 00505	30N	12W 33	2	4			85	45	40
SJ 01286	30N	12W 33	3	_			265	227	38
SJ 01118	30N	12W 33	3	2			32	10	22
SJ 00613	30N	12W 33	3	2	3		147	95	52
SJ 01633	30N	12W 33	3	3			280	240	40
SJ 02212	30N	12W 33	3	3			320	269	51
SJ 00447	30N	12W 33	4	1			104	65	39
SJ 00622	30N	12W 33	4	1	2		76	41	35
SJ 00590	30N	12W 33	4	1	3		98	60	38
SJ 00986	30N	12W 33	4	2			104	80	24
SJ 01231	30N	12W 33	4	2	3		246	161	85
			-	_					

Record Count: 146



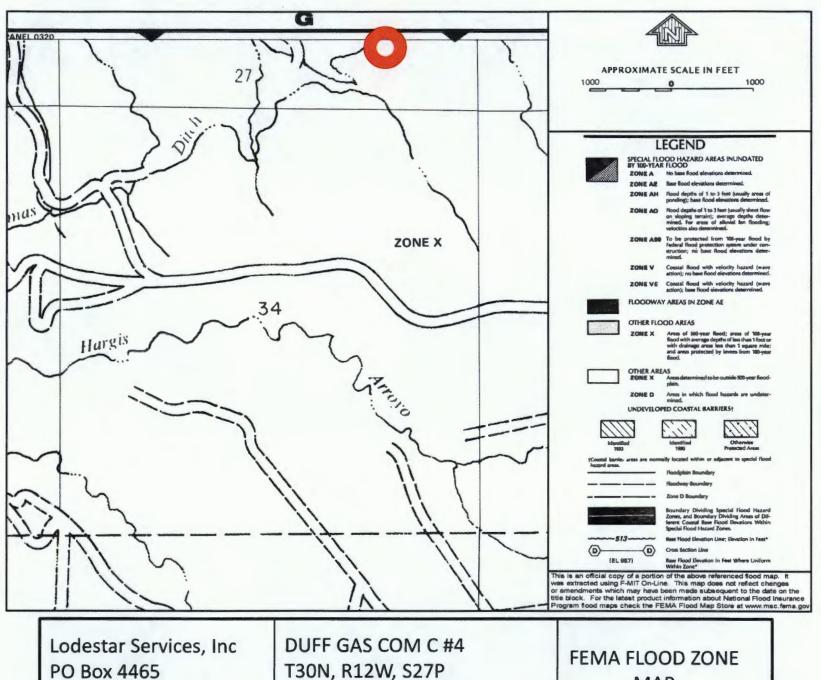
Lodestar Services, Inc PO Box 4465 Durango, CO 81302 DUFF GAS COM C #4 T30N, R12W, S27P San Juan County, NM

Aerial Photograph



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 DUFF GAS COM C #4 T30N, R12W, S27P San Juan County, NM

Mines, Mills, and Quarries Map



PO Box 4465 Durango, CO 81302 T30N, R12W, S27P San Juan County, NM

MAP

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

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

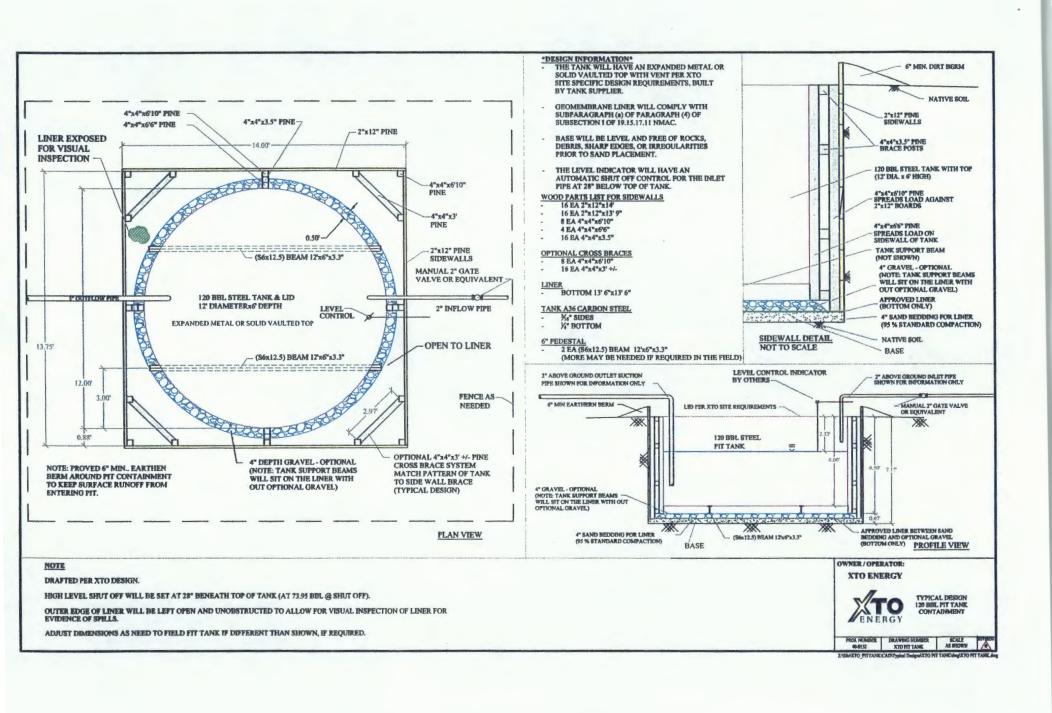
General Plan

- XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or '4 mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and '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 belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

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



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

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

General Plan

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

Well Name

API#

Sec., Twn., Rng.

XTO Inspector's name

Inspection date and time

Visible tears in liner

Visible signs of tank overflow

Collection of surface run on

Visible layer of oil

Visible signs of tank leak

Estimated freeboard

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

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

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

Well Nam	ne:				API No.:			
_egals	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)
Notes:	Provide De	etailed Descr	ription:					
					*			
Misc:								

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

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

General Plan

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

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

Soil contaminated by exempt petroleum hydrocarbons

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

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 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.

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

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

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

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.