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 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

Modification to an existing permit	low-grade tank, or proposed alternative method elow-grade tank, or proposed alternative method sting permitted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (Form C-144) per individual p	it, 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 not not not not only with an operator of its responsibility to comply with a complex property of its responsibility to comply with a complex property of its responsibility to complex property of its responsibility of i	
Operator: XTO Energy, Inc.	OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name:Dawson A #1	
API Number: 30-045-20050 OCD Permi	t Number:
U/L or Qtr/Qtr N Section 04 Township 27N Range	
Center of Proposed Design: Latitude 36.598420 Longitud	e <u>107.689880</u> NAD: □1927 🔀 1983
Surface Owner:   ▼ Federal   State   Private   Tribal Trust or Indian Allotment	
□ Permanent □ Emergency □ Cavitation □ P&A   □ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDf   □ String-Reinforcedmil □ Volur   3. □ Closed-loop System: Subsection H of 19.15.17.11 NMAC   Type of Operation: □ P&A □ Drilling a new well □ Workover or Drilling (Applintent)   □ Drying Pad □ Above Ground Steel Tanks □ Haul-off Bins □ Other   □ Lined □ Unlined □ Liner type: Thicknessmil □ LLDPE □ ILDPE   □ Liner Seams: □ Welded □ Factory □ Other	ies to activities which require prior approval of a permit or notice of
Subsection   Of 19.15.17.11 NMAC	alls, vaulted, automatic high-level shut off, no liner
s.  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the S	anta Fe Environmental Bureau office for consideration of approval.

16.								
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, hospital, 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								
7.								
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)								
☐ Screen ☐ Netting ☐ Other Expanded metal or solid vaulted top								
Monthly inspections (If netting or screening is not physically feasible)								
8. Signs: Subsection C of 19.15.17.11 NMAC								
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
Signed in compliance with 19.15.3.103 NMAC								
9. Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.								
Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of	office for							
consideration of approval.	Milee for							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10.								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept	stable source							
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate to the companion of								
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a	pproval.							
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi above-grade tanks associated with a closed-loop system.	ng pads or							
	☐ Yes ⊠ No							
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								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☒ No							
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)	□ NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No							
(Applies to permanent pits)	⊠ NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☒ No							
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								
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.	☐ Yes ☒ No							
- Written confirmation or verification from the municipality; Written approval obtained from the municipality								
Within 500 feet of a wetland.								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ 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.	☐ Yes ⊠ No							
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>								
Within a 100-year floodplain.	☐ Yes ☒ No							
- FEMA map								

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
<ul> <li>☑ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>☑ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC</li> <li>and 19.15.17.13 NMAC</li> </ul>
Previously Approved Design (attach copy of design) API Number: or Permit 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  Luiner 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 <sub>2</sub> S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection 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: (19.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attack 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 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									
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 accept provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approproval and exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	riate district 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									
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									
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									
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									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinal adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	nance Yes No								
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed	☐ 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 Geolog Society; Topographic map</li> </ul>	cical Yes No								
Within a 100-year floodplain FEMA map	☐ Yes ☐ No								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the composition of the following items must be attached to the composition of Surface Owner Notice - 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 requirement 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 or in case on-site closure standary 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 I of 19.15.17.13 NMAC	AC nts of 19.15.17.11 NMAC MAC								

119.		
Operator Application Certification:		
I hereby certify that the information submitted with this application is true, acc	curate and complete to t	he best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	01/02/2009
e-mail address: kim_champlin@xtoenergy.com	Telephone:	(505) 333-3100
OCD Approval: Permit Application (including closure plan) Closure	Plan (only) OCD	Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permit Num	ber:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	r to implementing any f the completion of the	closure activities and submitting the closure report. closure activities. Please do not complete this
	☐ Closure Com	pletion Date:
22.  Closure Method:  Waste Excavation and Removal On-Site Closure Method Alter  If different from approved plan, please explain.	mative Closure Method	□ Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, detwo facilities were utilized.		
Disposal Facility Name:	<ul><li>Disposal Facility P</li></ul>	Permit Number:
Disposal Facility Name:	_ Disposal Facility P	Permit Number:
Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No	or in areas that will not	be used for future service and operations?
Required for impacted areas which will not be used for future service and oper  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ations:	
Closure Report Attachment Checklist: Instructions: Each of the following 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 closure)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)	<del>;</del> )	
On-site Closure Location: Latitude Lon	gituue	IVAD. [1927] [1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires.	e report is true, accurate ements and conditions	e and complete to the best of my knowledge and specified in the approved closure plan.
Name (Print):	Title:	
Signature:		
e-mail address:	Telephone:	

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Operatur Well No Tenneco Oil Company Dawson "A" P Se Tron Unit Letter County 11 kunge 8 West 27 North San Juan Arrual Footage Location of Wel-790 feet from the South 1450 tech from the Vest farband tele for the first and from the Geduitteit Avereage 5723 ungraded Basin Dak. & Blanco Mv Basin Dak. & Blanco Mv. 321.33 3 Acres 1. Outline the aceragy redicated to the subject well bucolored piency or hachure marks on the plat beick 2. If more than one lease is reproated to the well-blittine each and libertify the Liwhership thereof, both as to working interest and rotals. Is If higher than one lease of afferent awhership is decidated to the well, have the interests of a cowners been consolicated as common advance in that in for excluding lets? iss of were a last tipe it in didentar i.... if answer is indicated the owners and tract persons trans which have actually consequently. Use reverse side of this form if No allowable, will be assigned to the well until all interests have been copse to continue establice tradition foreed-Ell Breez aubtoved by the Commission pooling, or otherwise contacts a non-standard unit, eliminating, such APR 1 2 1967 CERTIFICATION OIL CON. COM. hereby certify that the information partained in is true and complete to the pest of my DIST. 3 G. A. Ford Time Senior Production Clerk Tenneco Oil Company Cimpany April 10, 1967 Dire I hereby certify that the well location shown on this plat was platted from field notes of actual N surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 7April 1967 1450 ind/or Land Surveyor Robert H. Ernst N. Mex. PF & LS 2463 Ernst Engineering Co. centracté Na

Durango, Colorado

Client: **XTO Energy Pit Permit** Lodestar Services, Inc. **Project:** tank permitting **Siting Criteria** Revised: 25-Aug-08 O Box 4465, Durango, CO 81302 Information Prepared by: **Trevor Ycas** API#: 30-045-20050 USPLSS: 27N 08W 4 N Name: DAWSON A No. 001 36.598420°,-107.689880° Lat/Long: Geologic depth>100' San Jose Formation (Tsj) Depth to groundwater: formation: Distance to closest site elevation: continuously flowing 10.8 miles N to 'San Juan River' 2050m/6726 watercourse: Distance to closest 4375' E to 'Largo Canyon' significant watercourse. wash/channel lakebed, playa lake, or sinkhole: Soil Type: Rockland Permanent residence, school, hospital. NO institution or church within 300' Annual Navajo Dam: 12.95", Governador: 11.98", Precipitation: Capulin Rgr Stn.: 14.98", Otis: 10.41" **Domestic fresh water** Precipitation Historical daily max. precip.: 4.19" well or spring within NO Notes: (Bloomfield) Any other fresh water well or spring within NO 1000 26N06W\_iWaters.pdf, 26N07W\_iWaters.pdf, **Attached** 26N08W\_iWaters.pdf, 27N07W\_iWaters.pdf, **Documents:** NO 27N08W\_iwaters.pdf, 27N09W\_iwaters.pdf, Within incorporated 28N07W\_iWaters.pdf, 28N08W\_iWaters.pdf, municipal boundaries 28N09W\_iWaters.pdf Within defined NO FM3500640750B\_30-30-045-20050\_gEarth-iWaters.jpg, 30-045-20050\_gEarthmunicipal fresh water 045-20050.jpg PLS.jpg ,30-045-20050\_topo-PLS.jpg well field NO **Mining Activity:** None Near Wetland within 500' NM\_NRD-MMD\_MinesMillQuarries\_30-045-20050.jpg NO Within unstable area Within 100 year flood NO - FEMA Zone 'X' plain **Additional Notes:** drains to 'Largo Canyon' atop Blanco mesa

### Dawson A #1 Below Grade Tank Hydrogeologic Report for Siting Criteria

#### General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the central Largo Canyon region of the San Juan Basin southeast of Hollis Pass and atop Blanco Mesa. The predominant geologic formation is the San Jose Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose ranges from 200 to 2700 feet, thickening from west to east (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the San Jose Formation are between 0 and 2700' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River. Little specific Hydrogeologic data is available for the San Jose Formation system, but "numerous well and springs used for stock and domestic supplies" draw their water from the San Jose Formation (Stone et al., 1983).

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

Dry and arid weather further prohibit active recharge. 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

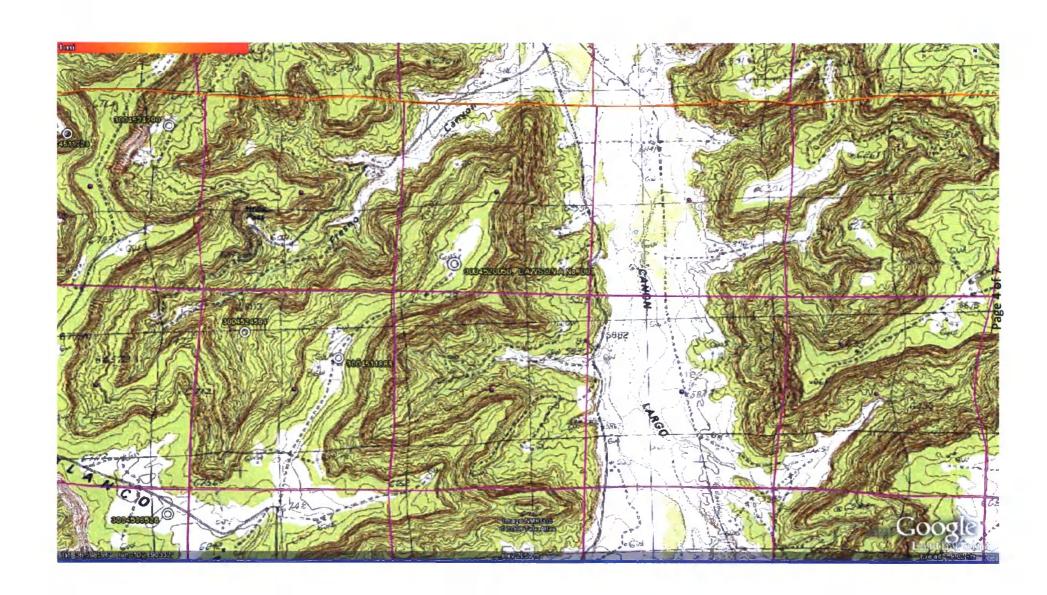
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone, shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the San Jose Formation at depths greater than 100 feet and thicknesses of the aquifer can be up to several hundred feet (USGS, Groundwater Atlas of the US) (Stone et al, 1983).

The site in question is located on relatively flat ground atop Blanco Mesa at an elevation of approximately 6730 feet and approximately 4370' west of Largo Canyon. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the other dominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Largo Canyon and within major tributary systems. However, an elevation difference between the site and the base of Largo Canyon of over 700 feet suggests groundwater is considerably deeper at the proposed site.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 3.4 miles north in the mouth of Blanco Canyon (SJ02800). Other 'nearby' iWaters wells are located 5.2 miles northeast (SJ02283), 6.3 miles east-south-east (SJ02314), and 4 miles northeast (SJ00163S).

Wells located at similar elevations along Largo Canyon contain groundwater primarily at depths greater than 18 feet, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached. An elevation difference of over 700 feet between the site and the nearest major stream channel suggests groundwater is likely deeper than 100 feet.





INA	D27 X:	Y:	Zone:	Search	Radius:
County:	Ba	sin:		Number:	Suffix:
Owner Name:	(First)	(Last)		— ○Non-Do	omestic ODomestic OAI
	POD / Surface D	ata Report Avg	Depth to Water I	Report Water	Column Report

#### WATER COLUMN REPORT 08/11/2008

							smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Column	
SJ 00002	28N	07W	14	1						375			
SJ 03116	28N	07 <b>W</b>	21	.3	3	3				98	20	78	

Record Count: 2

Record Count: 8

						New Mexico POD R		and Dow		eer								
				Т	ownship: 281	Range: 06W	Se	ctions:										
				NA	D27 X:	Y:		Zone:	S	earch F	Radius:							
				County:	В	asin:			Number:		Suff	ix:						
				Owner Name: (I	irst)	(Last			0 N	lon-Do	mestic	O Domestic	⊚ All					
					POD / Surface	Data Report A	va Den	th to Water	Report	Water	Column R	tone						
				1	00.04.00						Committee	opo						
						Clear Form	IW.	ATERS Me	nu Het	P								
			POD / SURFACE DATA RE	PORT 10/11/2	ooa													
						(quarters are	1=NW	2=NE 3=	SW 4=SE)	+								
	(acre	ft per ann	um)			(quarters are	bigg	est to s	mallest	XY	are in	Feet	UTM are	in Meters	}	Start	Finish	Depth
DB File Nbr	Use	Diversion		POD N		Source		Rng Bec		Zone	X	Y			Northing	Date	Date	Well !
SD 07849	PDL	3	ROSA B. MARTINEZ		7849		28N	06W 13					13	284303	4060381			
8J 00200	OFM	20	BURLINGTON RESOURCES OF		0200	Artesian		0 EM 23					13	2815€4	4057870		05/23/1967	1551
SJ 03005	STK	.3	DON SCHREIBER		3005	Shallow	28N	0 EW 21					13	279663	4058421	08/06/2000	08/10/2000	245
8J 03043	STK	.3	JANE SCHREIBER		9043	Shallow	28N		4 2 2				13	279663	4058421	09/01/2000	09/02/2000	290
8J 03091	STK	3	JANE SCHREIBER		3091	Shallow		06W 29					13	277834	4057457	05/17/2001	05/18/2001	150
8J 03443	STK	0	PON SCHREIBER		3443	- 01 11	28N	0 EW 22			1521 17	0050770	13	279854	4057809	11/00/00/00	11/10/2025	300
8J 03675	DOM	3	ARTURO R. SANCHEZ		3675	Shallow	28N	06W 14	4 3 4	C	153167	2059732	13	282528	4059346	11/08/2005		420 450
SJ 03700	STK	3	JANE SCHREIBER	SJ O	3700 POD1	Shallow	28N	06W 12	2 2 4							02/20/2006	02/25/2006	430

lofl

#### New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 28N Range: 05W Sections: NAD27 X: Zone: Search Radius: County: Basin: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All Clear Form WATERS Menu Help POD / SURFACE DATA REPORT 10/11/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest UTM are in Meters) X Y are in Feet Start Finish Depth DB File Nbr Use Diversion Owner POD Number Source Tws Rng Sec q q q х UTM\_Zone Easting Northing Well i Zone Date Date 8D 07850 SD 07850 SD 07851 PUL ROSA B. MARTINEZ 28N 05W 18 2 3 4 285663 4060122 PDL ROSA B. MARTINEZ SD 07851 28N 05W 18 1 2 1 13 285228 4060731 8D 07852 PDL ROSA B. MARTINEZ 8D 07852 28N 05W 18 2 1 1 13 285579 4060759 BJ 00036 IND BURLINGTON RESOURCES OIL & GAS 8J 00036 Shallow 28N 05W 28 3 268156 4056298 06/27/1953 06/27/1953 303 13 SJ 00047 NOT MAMIE MANGUM SJ 00047 Shallow 26H 05W 28 288558 4056700 07/30/1953 08/04/1953 465 13 8J 01893 8J 03806 STK ROSA B. OR JUAN L. MARTINEZ 28N 05W 18 4 SJ 01893 Shallow 13 285827 4059576 09/14/1984 10/12/1984 390

28N 05W 07 4 4 2

130509 2065482

13

286111

4061033

Record Count: 7

STK

3 ROSA B. MARTINEZ

8J 03806 POD1

	701 to 62 to 70 11 10 to 10 10
Township: 27N Range: 08W	Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	Non-Domestic ODomestic  All
POD / Surface Data Report Avg	Depth to Water Report   Water Column Report
Clear Form	iWATERS Menu Help
WATER COLUMN REPORT O	08/04/2008
(quarters are 1=NW 2=NE 3=SW 4=SE)	

(quarters are biggest to smallest)

Tws Rng Sec q q q Zone X 27N 08W 36 1 3 2

Depth Water (in feet) Depth Y Well Water Column

2200

Record Count: 1

POD Number

SJ 02410

	Township: 27N	Range: 07W	Sections:		
NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Bas	in:	6	Number:	Suffix:
Owner Name:	(First)	(Last)		O Non-Do	mestic ODomestic   All
	POD / Surface Da	ata Report Avg	Depth to Water	Report Water	Column Report
		Clear Form	iWATERS Me	nu Help	

#### WATER COLUMN REPORT 08/04/2008

						3=SW 4=SI smalles	-		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	qq	P	Zone	x	Y	Well	Water	Column	
RG 81025	27N	07W	35	4 3	3				560	465	95	
SJ 00195	27N	07W	15	2					1633	500	1133	
SJ 02314	27N	07W	17	3 3					355	320	3.5	
SJ 02408	27N	07W	21	2 1	3				400	300	100	
SJ 03274	27N	07W	35	3 4	4				450			
SJ 02404	27N	07W	3.5	4 3	3				550	250	300	

Record Count: 6

8J 03001

Record Count: 6

DOM

3 CHARLES E. BRADLEY

8J 03001

4052831

06/28/2000 07/04/2000

13

#### New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 27N Range: 06W Sections: NAD27 X: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All POD / Surface Data Report | Avg Depth to Water Report | Water Column Report Clear Form WATERS Menu Help POD / SURFACE DATA REPORT 09/16/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in Feet UTM are in Meters) Start Finish Depth DB File Nbr Use Diversion Owner POD Number Source Tws Rng Sec q q q x UTM\_Zone Easting Northing Date Date Well ! 00061 DOM EL PASO NATURAL GAS COMPANY 8J 00061 Shallow 27N 06W 32 3 3 276278 4044923 11/01/1956 11/07/1956 445 8J 00062 DOM EL PASO NATURAL GAS COMPANY 8J 00062 Shallow 27N 06W 32 3 3 3 13 276278 4044923 11/08/1956 11/12/1956 452 8J 00213 IND 17 EL PASO NATURAL GAS COMPANY 8J 00213 27N Shallow 06W 32 1 4 4 13 276897 4045750 06/20/1974 1306 SJ 02291 STK 3 BLM 27N 06W 23 4 3 1 8J 02291 261993 4048335 13 8J 02403 DOM JOE OR WILMA KAIME SJ 02403 27N 06W 30 3 1 3 12/31/1946 505 13 274714 4047115

27N: 06W 07 2 2 1

Shallow

1 of 1

Record Count: 3

	New Mexico Office of the State Engineer POD Reports and Downloads		
Townshi	ip: 27N Range: 05vv Sections:		
NAD27	X: Y: Zone: Search Radius:		
County:	Basin: Number: Suffix:	- Page -	
Owner Name: (First)	(Last) One-Domestic Onestic	© Ali	
POD/S	Surface Data Report		
	Clear Form IWATERS Menu Help		
POD / SURFACE DATA REPORT 09/16/2008	(quarters are 1=NW 2=NE 3=SW 4=SE)		
(acre ft per annum)	(quarters are biggest to smallest X Y are in Feet	UTM are in Meters)	Start Finish Depth
DB File Nbr   Use   Diversion   Owner   FOD Number   RG   61026   STK   3   BUREAU OF LAND MANAGEMENT   RG   81026   ST   O0046   IND   16   BURLINGTON RESOURCES OIL & GAS   SJ   O0046   OFN   OFN   4   BURLINGTON RESOURCES OIL & GAS   SJ   O0199	Source   Tws   Rng   Bec   q   q   Zone   X   Y	UTM_Zone         Easting         Northing           13         290530         4046294           13         289133         4052788           13         290409         4053971	09/12/2003 09/16/2003 460

A

NAD27 X:	Y:	Zone:	Search	Radius:
County:	Basin:		Number:	Suffix:
Owner Name: (First)	(Last)		— ○Non-Do	omestic ODomestic OAll
POD / Surfa	ce Data Report Avg	Depth to Water	Report Water	Column Report
	Clear Form	iWATERS Mer	nu   Help	

#### WATER COLUMN REPORT 08/07/2008

	(quarter (quarter							•		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q c	Ţ	Zone	x	Y	Well	Water	Column	
SJ 02405	26N	08W	01	3	4 3	3				180	100	80	
SJ 02411	26N	08W	01	4	4 ]	1				6000			
SJ 02407	26N	08W	01	4	4 ]	1				2200			

Record Count: 3

NAD27 X:	Y:	Zone:	Search Ra	adius:
County:	Basin:	P 1007	Number:	Suffix:
Owner Name: (First)	(Last	t)	Non-Dome	estic ODomestic   Al
POD / Sui	face Data Report Av	g Depth to Water Re	eport Water Co	lumn Report

#### WATER COLUMN REPORT 08/06/2008

							3=SW 4=SE; smallest;			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	P	q	q	Zone	x	Y	Well	Water	Column		
SJ 02409	26N	07W	01	1	2	2				700	400	300		
SJ 02402	26N	07W	05	3	3	2				36	18	18		
SJ 00071	26N	07W	15	4	1	2				365	26	339		
SJ 00070	26N	07W	15	4	2	3				335	22	313		
SJ 02406	26N	07W	30	3	2	1				280	180	100		

Record Count: 5

NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Bas	,	2010.	Number:	Suffix:
Owner Name:	(First)	(Last)		Non-Do	mestic ODomestic   Al
	POD / Surface Da	ata Report Avg	Depth to Water F	Report   Water	Column Report
		Clear Form	iWATERS Men	u Help	

#### WATER COLUMN REPORT 08/12/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone X

Depth Depth Water (in feet)
Y Well Water Column

No Records found, try again

POD Number

	ownship: 26N	Range. 105vv	Sections:		
NAI	027 X:	Y:	Zone:	Search	Radius:
County:	Basi	n:		Number:	Suffix:
Owner Name:	(First)	(Last)		ONon-Do	mestic ODomestic OAll
_	POD / Surface Da	ta Report Avg I	Depth to Water I	Report   Water	Column Report
		Clear Form	iWATERS Mer	Help	

#### WATER COLUMN REPORT 08/12/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)
Tws Rng Sec q q Zone X

Depth Depth Water (in feet)
Y Well Water Column

No Records found, try again

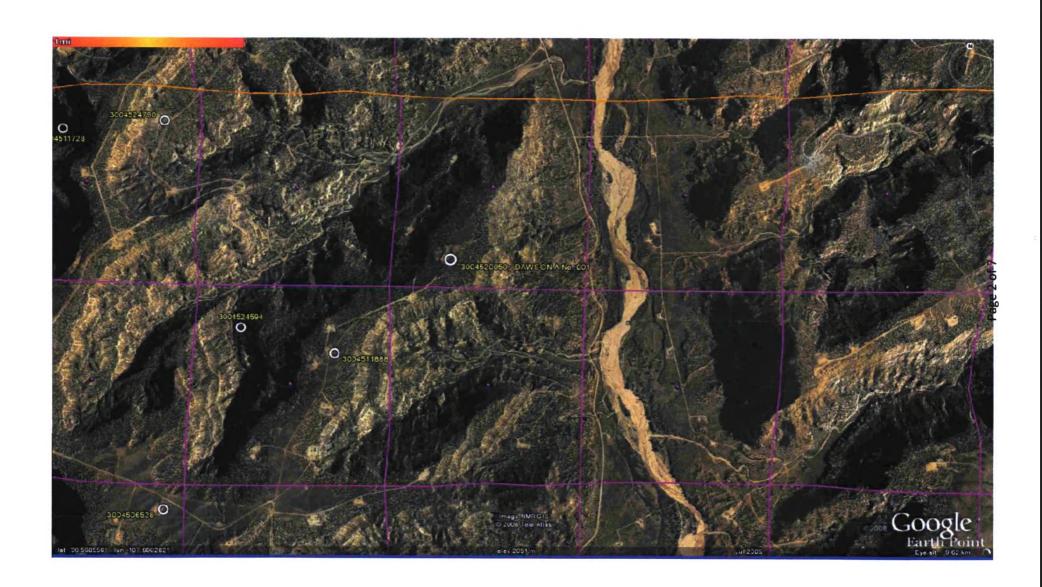
POD Number

NA	D27 X:	Y:	Zone:	Search R	adius:
County:	Basin	:		Number:	Suffix:
Owner Name:	(First)	(Last)		Non-Dom	nestic ODomestic OAl
	POD / Surface Data	Report Avg [	Depth to Water R	eport Water C	olumn Report

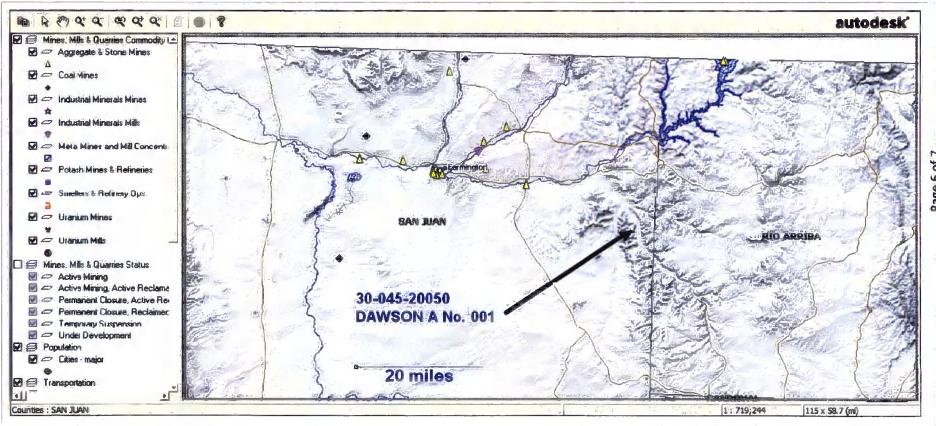
#### WATER COLUMN REPORT 08/04/2008

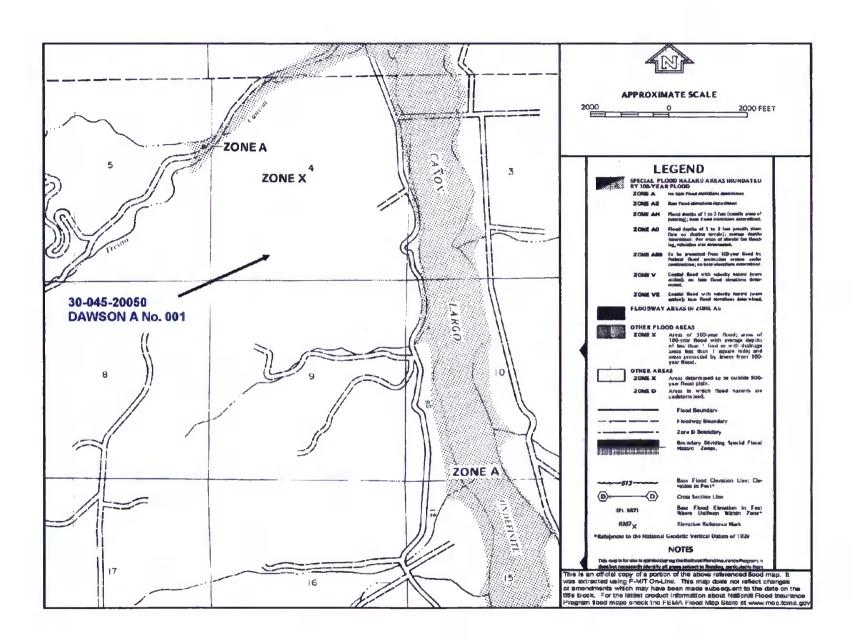
							3=SW 4=SI smalles			Depth	Depth	Water	(in feet)
POD Number	Tws						Zone	x	Y	Well	Water	Column	
SJ 02283	28N	08W	14	4	2	1				540	480	60	
SJ 00209	28N	0.8%	17	3	2	1				15			
SJ 00209 -AMENDED-S	28N	08W	17	4	1	1				15			
SJ 00209 S	28N	08W	17	4	1	1				15		15	
SJ 00163 S	28N	08W	18	4	4	2				1450	800	650	

Record Count: 5



### Mines, Mills and Quarries Web 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.

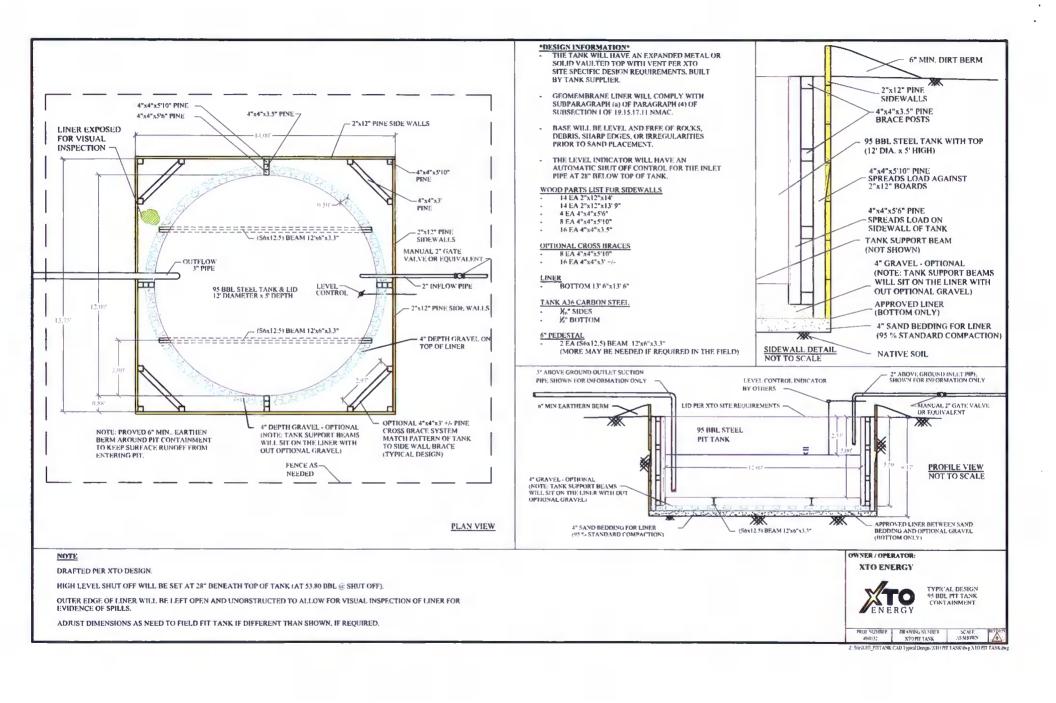
#### General Plan

- 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 ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and \( \frac{1}{2} \)" 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).

- 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

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

Well Name

API#

Sec., Twn., Rng.

XTO Inspector's name

Inspection date and time

Visible tears in liner

Visible signs of tank overflow

Collection of surface run on

Visible layer of oil

Visible signs of tank leak

Estimated freeboard

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

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 Na	me:				API No.:					
egals					Range:					
XTO Inspector's Inspection Inspection Name Date Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer of oil (Y/N)	Any visible signs of a tank leak (Y/N)					
						-				
otes:	Provide De	tailed Descri	iption:							
isc:										
								··		

b ...

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

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

#### General Plan

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

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B Soil contaminated by exempt petroleum hydrocarbons Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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.