### Jones, Brad A., EMNRD

From:

James\_McDaniel@xtoenergy.com

Sent:

Wednesday, September 14, 2011 7:53 AM

To: Subject: Jones, Brad A., EMNRD BGT Closure Plan

### Brad.

Due to the plugging and abandoning of the two locations listed below, I would like to request approval of the closure plans only for both locations.

Johnson Gas COM B #1E - 3004524166 - S 21 T 27N R 10W - Submitted on 1/23/2009 Lefkovitz Gas COM #1X - 3004507921 - S 25 T 29N R 10W - Submitted 1/16/2009

Thank you very much for your time in regards to this matter.



James McDaniel, CHMM #15676 EH&S Supervisor

XTO Energy, Inc.

Office # 505-333-3701 Cell # 505-787-0519

James\_Mcdanlel@xtoenergy.com

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

intent)

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division : 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and **below-grade tanks**, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

### Pit, Closed-Loop System, Below-Grade Tank, or

Proposed Alternative Method Permit or Closure Plan Application
Type of action:  Existing BGT  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1.           Operator:         XTO Energy, İnc.           OGRID #:         5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name:Johnson Gas Com B #1E
API Number: 30-045-24166 OCD Permit Number:
U/L or Qtr/Qtr 1 Section 21 Township 27N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.558460 Longitude 107.895160 NAD: 1927 \( \big  \) 1983
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)

Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _ <u>Visible sidewalls</u> , vaulted, automatic high-level shut off, no liner
Liner type: Thicknessmil

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Liner Seams: Welded Factory Other

☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other

☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other

6.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, 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 <u>Expanded metal or solid vaulted top</u>	
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 compliance with 15,15,5705 Pinnie	
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 ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☐ No ☑ 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 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 and 19.15.17.13 NMAC
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   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   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)
15.  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. 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 Name: Disposal Facility Permit Number: 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 ser  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 sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distingular considered an 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 ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data 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 ☐ NA
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	Yes No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by 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 Subsection F 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  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

19. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accura	ate and complete to the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:Environmental Representative
Signature: him Champlin	Date:01/14/2009
e-mail address: kim_champlin@xtoenergy.com	Telephone: (505) 333-3100
	Approval Date: 9/44
Title: _ two muntal figures	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closure plan prior to the plan prior to th	o implementing any closure activities and submitting the closure report. The completion of the closure activities. Please do not complete this
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alterna If different from approved plan, please explain.	tive Closure Method   Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drill two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or  Yes (If yes, please demonstrate compliance to the items below) No	
Required for impacted areas which will not be used for future service and operation  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	ons:
24.  Closure Report Attachment Checklist: Instructions: Each of the following ite 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)  On-site Closure Location: Latitude	ande NAD:   1927   1983
25.	
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure relief. I also certify that the algorithms with all applicable algorithms are required.	
belief. I also certify that the closure complies with all applicable closure requirem  Name (Print):	
Signature:	Date:
e-mail address:	Telephone:

### OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Operator			Lease		Well No.
AMO CO PROD	AMOCO PRODUCTION COMPANY		JOHNSON GAS COM "B"		1-E
Unit Letter	Section	Township	Range	County	,
I	21	28N 27N	10W	San Juan	
1850	feet from the	South line and		t from the East	line
Ground Level Elev. 6081	Producing For	mation	Pool		Dedicated Acreage:
	Dakota		Basin Dakota		320 - Acres
2. If more th		-	ell by colored pencil o		he plat below. hereof (both as to working
dated by c	ommunitization, u	nitization, force-pooli	ng. etc?	have the interests o	f all owners been consoli-
X Yes	∐ No If ar	swer is "yes;" type o	t consolidation	Communities	
this form if	necessary.)	·			ated. (Use reverse side of
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			1		this plat was plotted from field
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A		Dia Damaia	Client:	XTO Energy
Lodestar Service	es, Inc.	Pit Permit	Project:	tank permitting
PO Box 4465, Durang	•	Siting Criteria	Revised:	12-Jan-09
V		Information	Prepared by:	Trevor Ycas
ADIM.		0.045.24166	LICHICC	270110W 211
API#:		0-045-24166	USPLSS:	27N 10W 21 I
Name:	JOHNSON	GAS COM B No.001 E	Lat/Long:	36.558460°, -107.895160°
Depth to groundwater:		depth < 50'	Geologic formation:	Nacimiento Formation (Tn)
Distance to closest continuously flowing watercourse:	9.4 miles	N to 'San Juan River';	site elevation: 1855m/ 6086'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	Fork) mai miles E to	to 'Kutz Canyon' (East in wash channel; ~8.6 'Blanco Canyon' main vash channel		·i
			Soil Type:	Alfisol / Entisol
Permanent residence, school, hospital, institution or church within 300'		NO		
			Annual	Navajo Reservoir: 11.90", Aztec: 9.77",
			Precipitation:	Farmington (FAA): 8.21", Bloomfield: 8.71'
Domestic fresh water well or spring within 500'		NO	Precipitation Notes:	Historical daily max. precip.: 4.0" (Bloomfield)
Any other fresh water well or spring within 1000'		NO		
			Attachad	26N09W_iWaters.pdf, 26N10W_iWaters.pdf,
Within incorporated municipal boundaries		NO	Attached Documents:	26N11W_iWaters.pdf, 27N09W_iWaters.pdf, 27N10W_iwaters.pdf, 27N11W_iwaters.pdf, 28N09W_iWaters.pdf, 28N10W_iWaters.pdf, 28N11W_iWaters.pdf
Within defined municipal fresh water well field		NO	FM3500640550B_30- 045-24166.jpg	30-045-24166_gEarth-iWaters.jpg, 30-045-24166_gEarth- PLS.jpg ,30-045-24166_topo-PLS.jpg
Wetland within 500'		NO	Mining Activity:	None Near
Within unstable area		NO		NM_NRD-MMD_MinesMillQuarries_30-045-24166.jpg
Within 100 year flood plain	LIKELY; -	see elev. note below	·	·
Additional Notes:	<del></del>			
drains to 'San Juan River' via 'Kutz Canyon'		fference between FEMA 'A' and site =< 1m		headwaters of Kutz Canyon(East Fork), NW of Angel Peak & W of Harris Mesa

### **JOHNSON GAS COM B 1 E**

### **Below Ground Tank**

API#: 30-045-24166

### **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 southernmost Kutz Canyon region of the San Juan Basin. The predominant geologic formation is the Nacimiento Formation of Tertiary age, which underlies surface soils and is often exposed (Dane and Bachman, 1965). Deposits of Quaternary alluvial and aeolian sands occur prominently near the surface of the area, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the San Juan River.

The prominent soil type at the proposed site are entisols 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. 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 8 to 12 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

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

### **Site Specific Hydrogeology**

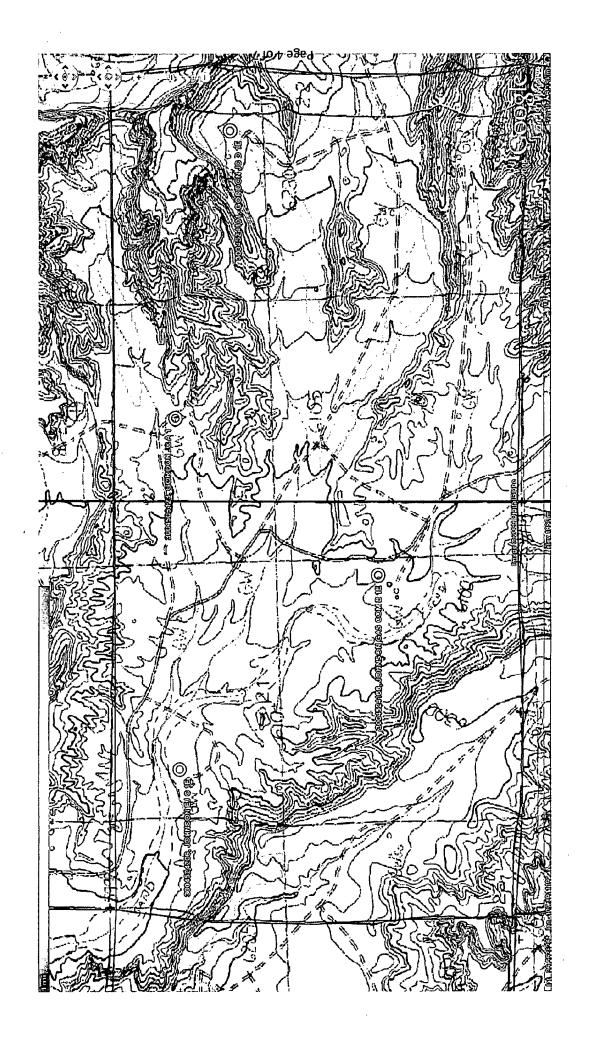
Depth to groundwater is estimated to be less than 50'. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

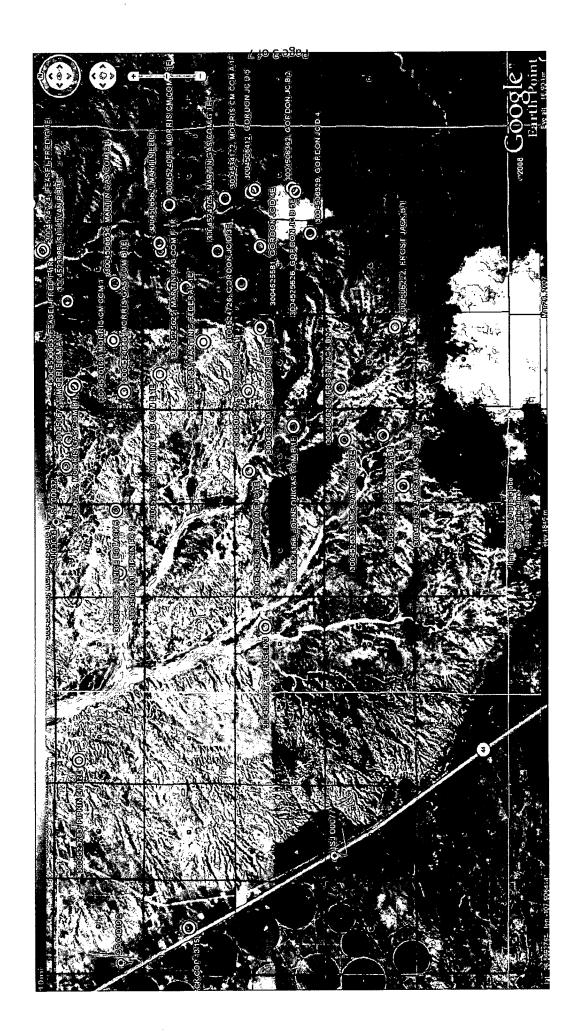
Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depth s greater than 100 feet and thicknesses of the aquifer can be up to 3500 feet (USGS, Groundwater Atlas of the US).

The site in question is located in the upper, southernmost, reaches of Kutz Canyon, where deeply eroded sandstone-capped mesas and slope-forming mudstones occur in a sparsely vegetated and arid badlands-type setting. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

The pit will be located on a relatively flat mesa top at an elevation of approximately 6086 feet near the head of Kutz Wash. It will be approximately 630 feet from the Kutz Canyon Wash. Groundwater is expected to be shallow within Kutz Wash.

State iWaters data points are sparsely distributed in this region, but there is an iWaters data point approximately 3.7 miles to the north-northwest of the site. Depth to groundwater at that site is 60 feet. A map showing the location of wells in reference to the proposed pit location is attached (SJ00032).





Township: 28N         Range: 10W         Sections:             NAD27         X:   Y:   Zone:                         County:   Basin:   Owner Name: (First)   (Last)   Ohnestic Odomestic	DD / Surface Data Report
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## WATER COLUMN REPORT 08/08/2008

Water (in feet) Column Depth Water Depth Well (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q POD Number

Zone

No Records found, try again

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# New Mexico Office of the State Engineer

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

Township: 28N Range: 09W Sections:	Owner Name: (First) (Last) (Domestic Onestic O	Clear Form   iWATERS Menu   Help
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## WATER COLUMN REPORT 08/06/2008

	POD Number         Tws Rng Sec q q q         Zone         X         Well Water         Column           SJ 03746 POD1         28N 09W 20 1 2 3         190 40 150         40 150           SJ 00018         28N 09W 20 3 1 4         135 71 64         64           SJ 02800         28N 09W 24 4 2 3         200 200
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Township: 27N Range: 11W Sections:    NAD27 X: Y: Zone:   Search Radius:    County:   Basin:   Suffix:    Owner Name: (First)
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## WATER COLUMN REPORT 08/06/2008

	(quarter	(quarters are 1=NW 2=NE 3=SW 4=SE)					
	(quarter	(quarters are biggest to smallest)		Depth	Depth	Water	Water (in feet)
Pod Number	Tws	Rng Sec q q q Zone X	· >1	Well	Water	Column	
SJ 01787	27N	27N 11W 07 2 2		650	650		
SJ 00077	27N	11W 26 2 1 3		1102	550	552	

Record Count: 2

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# New Mexico Office of the State Engineer

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Township: 27N Range: 10W Sections:	NAD27 X: Zone: Zone: Search Radius:	County:   Basin:   Suffix:	Owner Name: (First) (Last) Onon-Domestic Ono	POD / Surface Data Report	Clear Form   WATERS Menu   Help
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## WATER COLUMN REPORT 08/06/2008

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	(quarters	are	bigg	rest to	(quarters are biggest to smallest)	☶		Ă		Depth	Water	Water (in feet)
POD Number	Tws	Rng S	ec o	ה מ	Zone	×	<b>×</b>	ž	»11	Water	Column	
SJ 00032	27N	10W C	8 2	2 3	•			•	235	09	175	
SJ 00033	27N	10W.C	8 2	10W .08 2 2 3				•	204			
SJ 00034	27N	10W 08	8 2	2 2 3				•	235	170	65	

Record Count: 3

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

Township: 27N Range: 10W Sections:	NAD27 X:   Y:   Zone:   Search Radius:	ounty: Basin: Number: Suffix:	ner Name: (First) Clast) One-Domestic One-Domestic One-Stic One-Domestic One-Domest	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
	7	County: ☐	Owner Name:		

AVERAGE DEPTH OF WATER REPORT 08/06/2008

Feet)	Avg	115
Water in	Max	170
(Depth 1		
	Wells	7
	×	
	×	
	Zone	
	Sec	80
	Rng	101
	Tws	27N
	Bsn	SJ

Record Count: 2

New Mexico Office of the State Engineer POD Reports and Downloads

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http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

1 00		Township: 27N Range: psw Sections:	NAD27 X: Zone: Zone: Search Radius:	County: Basin: Number: Suffix: Suffix:	Owner Name: (First) (Last) ONon-Domestic ODomestic Ononestic Ononestic All	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form   WATERS Menu   Help	POD / SURFACE DATA REPORT 08/12/2008	(quarters ate i=NW 25ML 3=SW 4=SE)  (quarters ate i=NW 25ML 3=SW 4=SE)  (quarters are biggest to seallest X are in Feet UTM are in Meters)  (quarters are biggest to seallest X are in Feet UTM Zone Easting Northing Date Hell Water  Better Well Water	No Records found, try again
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http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

Township: 26N Range: 11W Sections:  NAD27 X: Y: Zone: Sone: Search Radius: Suffix: Owner Name: (First) Clear Form Water Report Help  County: Avg Depth to Water Report Water Column Report Clear Form Water Form Help	1	Y: Zone:	Basin: Number:	(First)		WATERS Menu
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## WATER COLUMN REPORT 08/11/2008

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SJ 01626	26N	26N 11W 16 4 3	16	4 3					255	200	52	
SJ 02734	26N	11W	35	4 3	7				275	165	110	

Record Count: 2

Township: 26N Range: 10W Sections:	NAD27 X: Zone: Zone: Zone:	Basin: Number: Suffix:	ume: (First) Chast) Chart Char	POD / Surface Data Report   Avg Depth to Water Report   Water Column Report	Clear Form WATERS Menu Help
Townshi	NAD27 X	County:	Owner Name: (First)	POD/S	

## WATER COLUMN REPORT 08/08/2008

	(quarter	s are	1=NW 2=NE	3=SW 4=SE)	_					
	(quarter	s are	biggest t	(quarters are biggest to smallest)	_		Depth	Depth	Water	(in feet
POD Number	Tws	Rng S	ec q q q	Zone	×	×	Well	Water	Column	
SJ 00193		10W 1	26N 10W 13 4 2				2287	500	1787	1787
SJ 00194	26N	10W 2	5 4 1				2105		1605	

Record Count: 2

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wnship: 26N Range: 09W Sections:	7 X: Zone: Zone: Search Radius:	Basin: Number: Suffix:	irst) ONon-Domestic ODomestic @All	POD / Surface Data Report   Avg Depth to Water Report   Water Column Report	Clear Form WATERS Menu Help
Township: 26N Ra	NAD27 X:	County: Basin:	Owner Name: (First)	POD / Surface Data Re	9

## WATER COLUMN REPORT 08/08/2008

	(quarters	are	 	7 2=	E E	=SW 4=SE)	•					
	(quarters	are	bigg	Jest	٠. د	smallest)		Depth	Depth	Water	(in feet)	
POD Number	Tws	Rng S	Sec	מ	יט	Zone	×	Well	Water	Column		
	26N	) M60	01 2	2	m			1500				
	26N	M60	31 3	2	m			1500				
	26N	09W	11 2	2	m			75	40	35		
	26N	09W	12 3	m ~	m			348	175	173		
	26N	09W	91	7				202	65	137		
	26N	M60	26 2	4	7			946	230	716		
SJ 00064	26N	M60	7 97	7	Н	26N 09W 26 4 2 1		490	215	275		
	26N	M60	5 97	7	m			479	234	245		

Record Count:

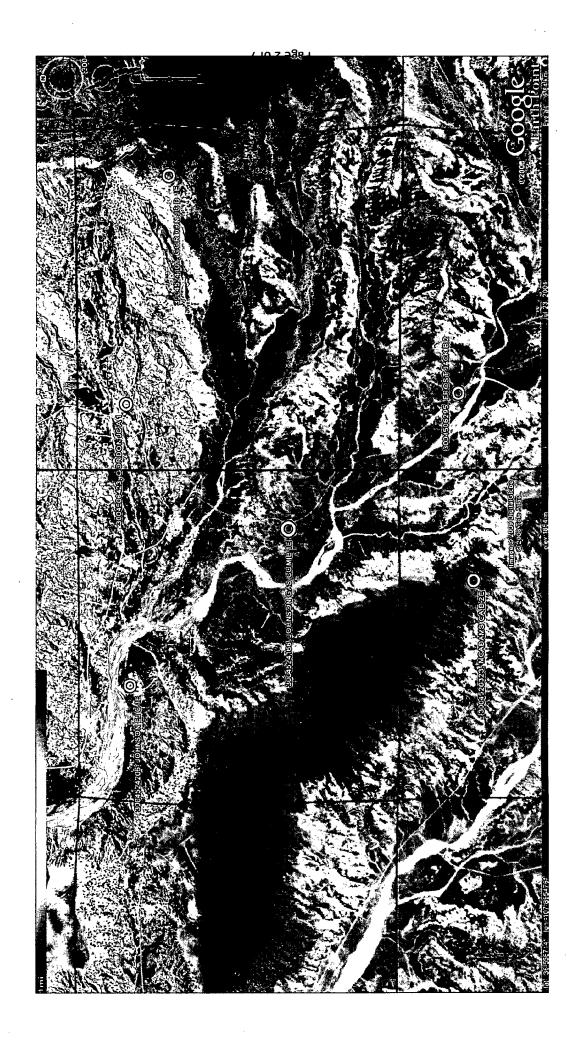
8/8/2008 1:59 PM

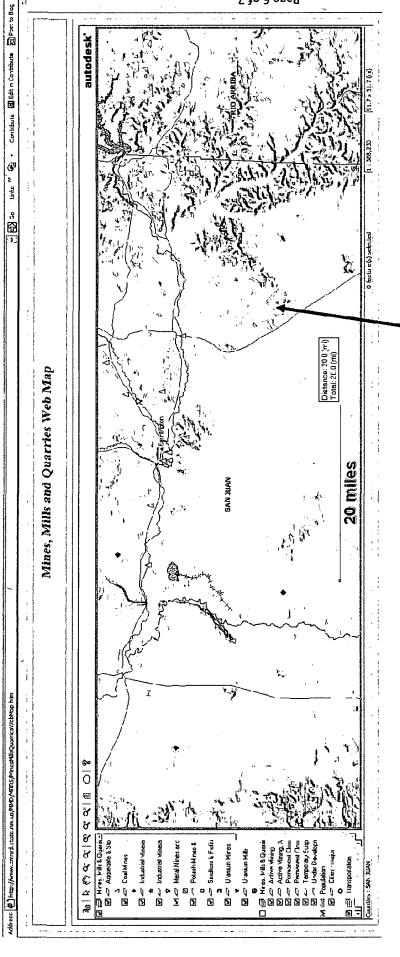
ons:	le: Search Radius:	Number: Suffix:	ONon-Domestic ODomestic @All	Water Report   Water Column Report	WATERS Menu Help
Township: 28N Range: 11W Sections:	NAD27 X: Zone:	County: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report	Clear Form WATER

## WATER COLUMN REPORT 08/06/2008

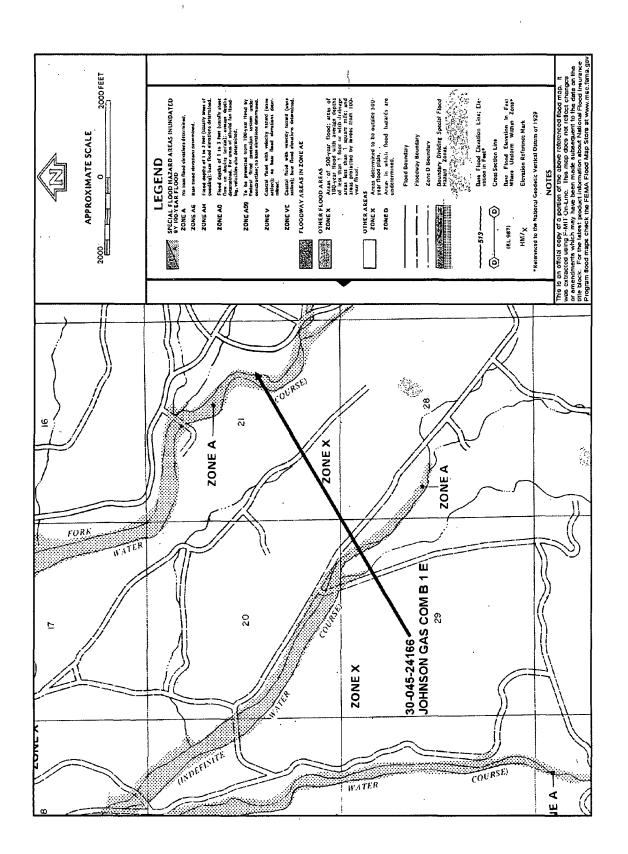
(9) POD Number	quarter quarter Tws	rters are 1=NW 2=NE rters are biggest to Tws Rng Sec q q q	1=1 biç Sec	TY 2 Tges q q	t to	quarters are 1=NW 2=NE 3=SW 4=SE) quarters are biggest to smallest) Tws Rng Sec q q q Zone	×	×	Depth Well	æ	Water	(in feet)
sJ 03193	28N	11W	07	3.4	m				80	35	45	
sJ 02916	28N	11W	07	3 4	4				86	70	28	

Record Count: 2





30-045-06387; 30-045-24206; 30-045-24166; 30-045-06423; 30-045-24101; 30-045-26323; 30-045-06295; 30-045-06243; 30-045-06324; 30-045-06222;



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

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

### General Plan

- 1. XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 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:
  - Operator's name

i.

- 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.

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

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

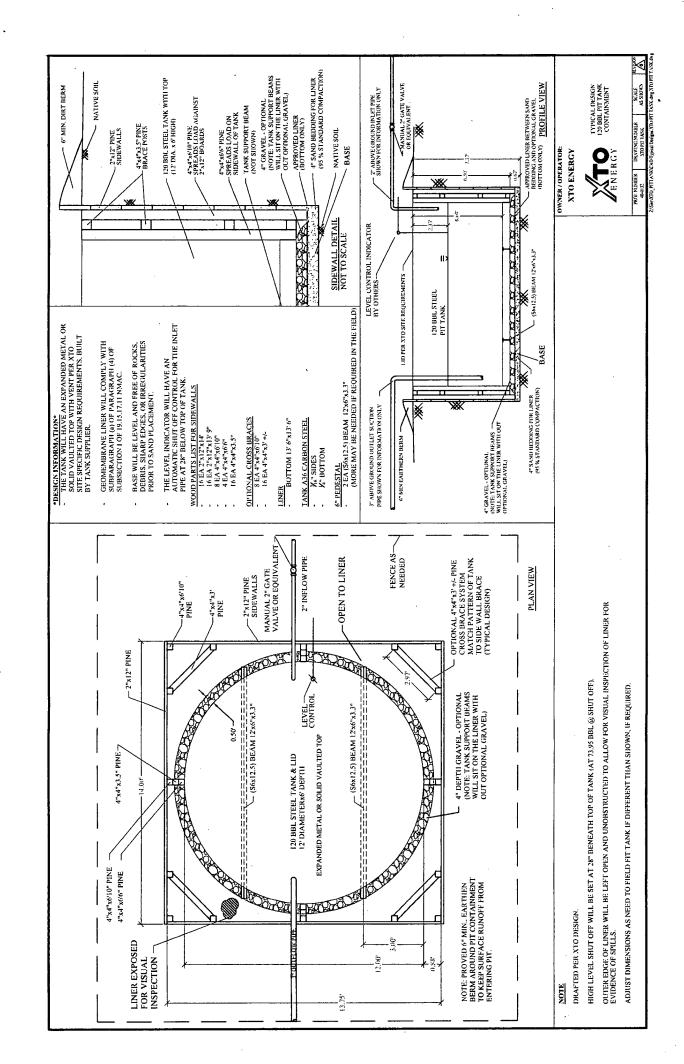
### General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ½ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and 1/4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

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

Well Name

API#

Sec., Twn., Rng.

XTO Inspector's name

Inspection date and time

Visible tears in liner

Visible signs of tank overflow

Collection of surface run on

Visible layer of oil

Visible signs of tank leak

Estimated freeboard

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

		MONTE	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTION	N FORM		
Well Name:					API No.:			
	(		:					
regais			i ownship:		Range:			
XTO Inspector's	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeboard
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
						,		
		•						
·								
-								
Notes:	Provide De	Provide Detailed Description:	ition:					
WISC								
						,		