Form C-144 July 21, 2008

District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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 Offite. 11 24

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.										
Operator: XTO Energy, Inc. OGRID #: 5380										
Address: #382 County Road 3100, Aztec, NM 87410										
Facility or well name: Schumacher #2F										
API Number: <u>30-045-33176</u> OCD Permit Number:										
U/L or Qtr/Qtr L Section 08 Township 30N Range 12W County: San Juan										
Center of Proposed Design: Latitude 36.825472 Longitude 108.12678 NAD: □1927 ⋈ 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										
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC										
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of										
intent)										
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other										
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other										
Liner Seams: Welded Factory Other										
4.										
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.

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,	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	
Z / Melinate. I lease openity _ 1 cut recently a recent mest need the grant property	
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 expression of the following is requested, if not leave blank:	office for
consideration of approval.	office 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	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro- office 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 dry	
above-grade tanks associated with a closed-loop system.	
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).	Yes □ No
- 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.	☐ Yes ⊠ No
 (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	□ NA
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	☐ Yes ⊠ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	L Ies Z No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ⊠ No
 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. 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
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain. - FEMA map	☐ Yes ☑ No

Oil Cassa Commission

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:	-
12.	=
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.	
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
☐ Previously Approved Design (attach copy of design) API Number:	
☐ Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Dil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC ☐ Site Reclamation 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 nacilities are required.	NMAC) nore than two
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future server Yes (If yes, please provide the information below) No	vice and operations?
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	C
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate districtions of exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif 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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plants are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann 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

Operator Application Certification: I hereby certify that the information submitted with this application is true, according to the content of the content	urate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	11/17/08
e-mail address: kim_champlin@xtoenergy.com	Telephone:	(505) 333-3100
OCD Approval: Permit Application (including closure plan) Closure		
OCD Representative Signature:		Approval Date: 8/5/13
OCD Representative Signature:	OCD Permit Nu	mber:
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 a section of the form until an approved closure plan has been obtained and the	r to implementing an f the completion of th closure activities hav	y closure activities and submitting the closure report. e closure activities. Please do not complete this e been completed.
	☐ Closure Cor	npletion Date:
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alter ☐ If different from approved plan, please explain.	rnative Closure Metho	d 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, at two facilities were utilized. Disposal Facility Name:	rilling fluids and drill	cuttings were disposed. Use attachment if more than
Disposal Facility Name: Were the closed-loop system operations and associated activities performed on		Permit Number:
Yes (If yes, please demonstrate compliance to the items below) No		to 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)	ations:	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closur belief. I also certify that the closure complies with all applicable closure require		
Name (Print):	Title:	11000
Signature:	Date:	
e-mail address	Telephone:	

AUSTRICT | 1685 N. Prench Dr., Nobba, N.W. 65240

State of New Mexico Energy, Hinerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DESTRICT II 1301 W Grand Ave., Artesia, N.M. 88210

DISTRICT IN 1999 Rd. Aztec, N.M. 87410.

OIL CONSERVATION DIVISION 1220 South St Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DESTRICT IV 1200 South St. Francis Dr. Santa Fe. NM 87505

AMENDED REPORT

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Client: **XTO Energy Pit Permit** Lodestar Services, Inc. Project: **Pit Permits Siting Criteria** Revised: PO Box 4465, Durango, CO 81302 17-Sep-08 **Information Sheet** Prepared by: **Brooke Herb** API#: USPLSS: 3004533176 T30N,R12W,S08L Name: Lat/Long: **SCHUMACHER #2F** 36.825472, -108.12678 Geologic Depth to groundwater: > 100 ft **Nacimiento Formation** formation: Distance to closest 3.19 miles NW of the Animas continuously flowing River; 4.8 miles E of La Plata River watercourse: Distance to closest 145' W of small wash draining to significant watercourse, Beeline Reservoir; 1.86 miles E of lakebed, playa lake, or **Farmington Glade** sinkhole: Soil Type: **Entisols** Permanent residence, school, hospital, No institution or church within 300 **Annual** 8.21 inches average annual Precipitation: **Domestic fresh water** Precipitation well or spring within No no significant precip events Notes: Any other fresh water well or spring within No 1000 Within incorporated **Attached** No Groundwater report and Data; FEMA Flood Zone Map municipal boundaries **Documents:** Within defined municipal fresh water No Aerial Photo, Topo Map, Mines Mills and Quarries Map well field Wetland within 500' No **Mining Activity:** 1.57 miles to Materials Pit

Additional Notes:

No

No - FEMA Flood Zone 'X'

Within unstable area

Within 100 year flood

plain

SCHUMACHER #2F Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T30N, R12W, Section 08, Quarter Section L Latitude/Longitude: approximately 36.825472, -108.12678

County: San Juan County, NM General Description: near Glade Run

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The proposed below ground tank location will be located on the flanks of the Farmington Glade between Aztec and La Plata, New Mexico. Within the Farmington Glade, the Tertiary Nacimiento Formation is exposed, along with Quaternary alluvial and aeoloian sands surrounding the center of the wash.

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

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

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

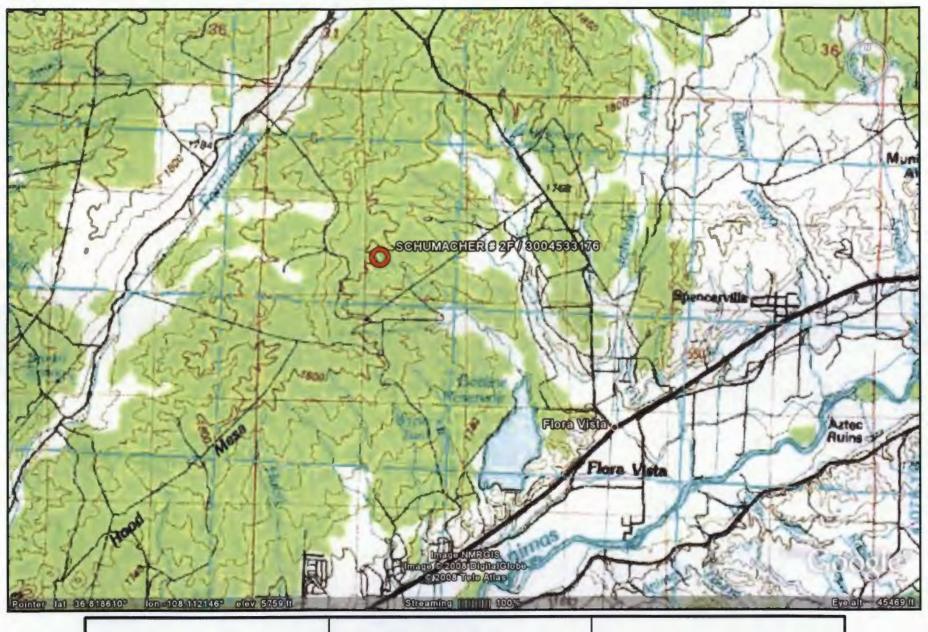
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

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

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. However, the proposed site is situated over three miles to the northwest and is approximately 450 feet higher in elevation from the Animas River (Google Earth).

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered near populated areas to the southwest of the site, and topographical elevations at the well locations are similar to those at the proposed site. Depth to groundwater within the wells ranges from 190 to 420 feet below the ground surface. A small cluster of wells to the northeast is approximately 90 feet lower in elevation then the proposed site. Depth to groundwater in these wells ranges from 39 to 109 feet.



SCHUMACHER # 2F T30N, R12W, S08L San Juan County, NM

Topographic Map



SCHUMACHER # 2F T30N, R12W, S08L San Juan County, NM

iWaters Groundwater Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

Township:	30h Range:	127	Sections:	3,4,10,15,16,18

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/16/2008

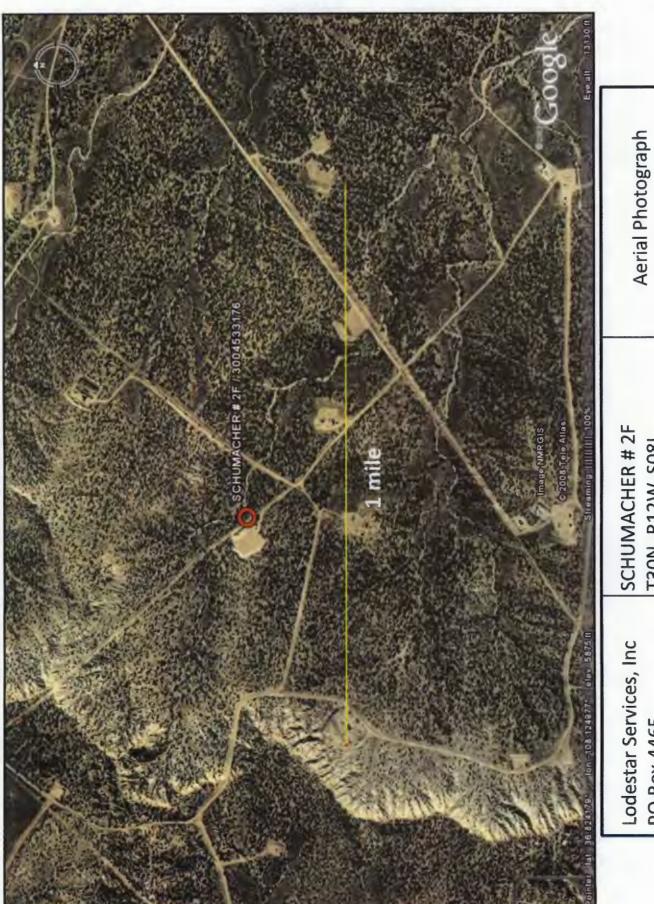
(quarter	s are	1=	HW	2=	=NE	3=SW 4=SE)						
(quarter	s are	bi	gge	est	t to	smallest)		Depth	Depth	Water	(in	feet)
Tws	Rng	Sec	q	q	P	Zone	X	Y	Well	Water	Column		
30N	12W	04	1	1	1				160	110	50		
30N	12W	04	4	3					156	65	91		
30N	12W	04	4	3					85	39	46		
30N	12W	04	4	3					158	70	88		
30N	12W	04	4	3					140	88	52		
30N	12W	04	4	3					155	109	46		
30N	12W	04	4	3	3				120	48	72		
30N	12W	04	4	4	4				120	80	40		
30N	12W	10	2	4	2	269	151	2121325	265	82	183		
30N	12W	10	3	4					140	60	80		
30N	12W	10	3	4					130	70	60		
30N	12W	10	4	4					126	43	83		
30N	12W	15							95	50	45		
30N	12W	15							78	50	28		
30N	12W	15	1	4					110	80	30		
30N	12W	15	1	4	3				180	56	124		
30N	12W	15	2						157	100	57		
30N	12W	15	2	3	4				96	53	43		
30N	12W	15	2	4	1				110	29	81		
30N	12W	15	2	4	2				165	105	60		
30N	12W	15	3						75	35	40		
30N	12W	15	3						50				
30N	12W	15	3						52	20	32		
	(quarter:	Quarters are Tws Rng 30N 12W 30N 30N	Quarters are bi Tws Rng Sec 30N 12W 04 30N 12W 10 30N 12W 15 30N 30N	Tws Rng Sec q	Tws Rng Sec q q 30N 12W 04 1 1 30N 12W 04 4 3 30N 12W 04 4 4 30N 12W 04 4 4 30N 12W 10 2 4 30N 12W 10 3 4 30N 12W 10 3 4 30N 12W 10 3 4 30N 12W 15 1 30N 12W 15 1 30N 12W 15 2 30N 12W 15 2 4	Quarters are biggest to Tws Rng Sec Q Q Q 30N 12W 04 4 3 30N 12W 04 4 4 4 30N 12W 10 2 4 2 30N 12W 10 3 4 30N 12W 15 3 30N 12W 15 3 30N 12W 15 2 3 4 30N 12W 15 2 3 4 30N 12W 15 2 4 2 30N 12W 15 3 30N 30N	Tws Rng Sec q q q Zone 30N 12W 04 1 1 1 30N 12W 04 4 3 30N 12W 04 4 4 4 30N 12W 10 2 4 2 30N 12W 10 3 4 30N 12W 10 3 4 30N 12W 10 4 4 30N 12W 15 30N 12W 15 30N 12W 15 30N 12W 15 30N 12W 15 2 30N 12W 15 2 4 1 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 2 4 1 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 2 4 2	30N 12W 04 1 1 1 30N 12W 04 4 3 30N 12W 04 4 4 4 30N 12W 04 4 4 4 30N 12W 10 2 4 2 265151 30N 12W 10 3 4 30N 12W 10 3 4 30N 12W 15 1 4 30N 12W 15 2 30N 12W 15 2 30N 12W 15 2 30N 12W 15 2 4 1 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 3 30N 12W 15 3	Tws Rng Sec q q q Sone X Y 30N 12W 04 1 1 1 30N 12W 04 4 3 30N 12W 04 4 4 4 30N 12W 10 2 4 2 30N 12W 10 3 4 30N 12W 10 3 4 30N 12W 10 4 4 30N 12W 10 3 4 30N 12W 15 1 4 30N 12W 15 1 4 30N 12W 15 2 4 30N 12W 15 2 4 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 3 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 2 4 2 30N 12W 15 3 30N 12W 15 3 30N 12W 15 2 4 2	Tws Rng Sec q q Zone X Y Well	Two Rng Sec q q Zone X Y Well Water	Two Rng Sec q q Zone X Y Well Water Column 30N 12W 04 1 1 1 1 1 1 1 1 1	Cquarters are biggest to smallest Depth Water (in Tws Rng Sec q q Zone X Y Well Water Column 30N 12W 04 1 1 1 1 1 1 1 1 1

SJ 00145	30N	12W 19	;	3					165	60	105
SJ 02120	30N	12W 1	5	3					77	55	22
SJ 00416	30N	12W 1	5	3 1					120	60	60
SJ 02127	30N	12W 1	6	3 3	3				55	35	20
SJ 03238	30N	12W 1	5	3 3	2	2			75	30	45
SJ 02760	30N	12W 1	6	3 3	1 2	2			50	21	29
SJ 00717	30N	12W 1	5	3 4	1				100	60	40
SJ 00684	30N	12W 19	5	3 4	1				73	30	43
SJ 01793	30N	12W 1	5	3 4	1				50	22	28
SJ 00730	30N	12W 1	5	3 4	1				90	30	60
SJ 01438	30N	12W 1	3	3 4	1				96	66	30
SJ 00928	30N	12W 1	5	3 4	1				68	32	36
SJ 01215	30N	12W 1	5	3 4	1				60	30	30
SJ 00714	30N	12W 1	5	3 4	1				92	40	52
SJ 00828 (1)	30N	12W 1	5	3 4					43	20	23
SJ 00829	30N	12W 1	5	3 4	1				68	30	38
SJ 00816	30N	12W 1	3	3 4	1				58	30	28
SJ 00710	30N	12W 1	5	3 4	1				90	30	60
SJ 00731	30N	12W 1	5	3 4	1				90	30	60
SJ 00912	30N	12W 1	5	3 4	1				58	35	23
SJ 00828	30N	12W 1	5	3 4	1				59	28	31
SJ 01037	30N	12W 1	5	3 4	1				50	20	30
SJ 00481	30N	12W 1	5	3 4	1 2	2			52	30	22
SJ 00516	30N	12W 1	5	3 4	1 3	3			55	8	47
SJ 00927	30N	12W 1	5	4 1	. 2	2			204	75	129
SJ 00594	30N	120 1	5	4 2	2				145	95	50
SJ 00810	30N	120 1	5	4 3	3	3			96	35	61
SJ 03159	30N	12W 1	5	4 4	1 2	2			60		
SJ 02514	30N	12W 1	5	4 4	1	1			57	25	32
SJ 01279	30N	12W 1	6	4 4	1				200	100	100
SJ 02627	30N	12W 1	3	1 2	2 2	2			354	250	104
SJ 03808 POD1	30N	128 1	3	1 3	1	L	266399	2116162	42	9	33
SJ 02697	30N	128 1	3	1 4	1 3	3			360	290	70
SJ 01892	30N	12W 1	3	1 4	1	1			465	420	45
SJ 01619 X	30N	12W 1	3	2 1					380	350	30
SJ 01619	30N	12W 1	3	2 1					395	345	50
SJ 02137	30N	12W 1		2 2	. 4	1			460	380	80
SJ 01737	30N	12W 1	3	2 3	3				540		
SJ 02080	30N	12W 1	3	2 3	3				370	340	30
SJ 01013	30N	12W 1	3	3					310	250	60

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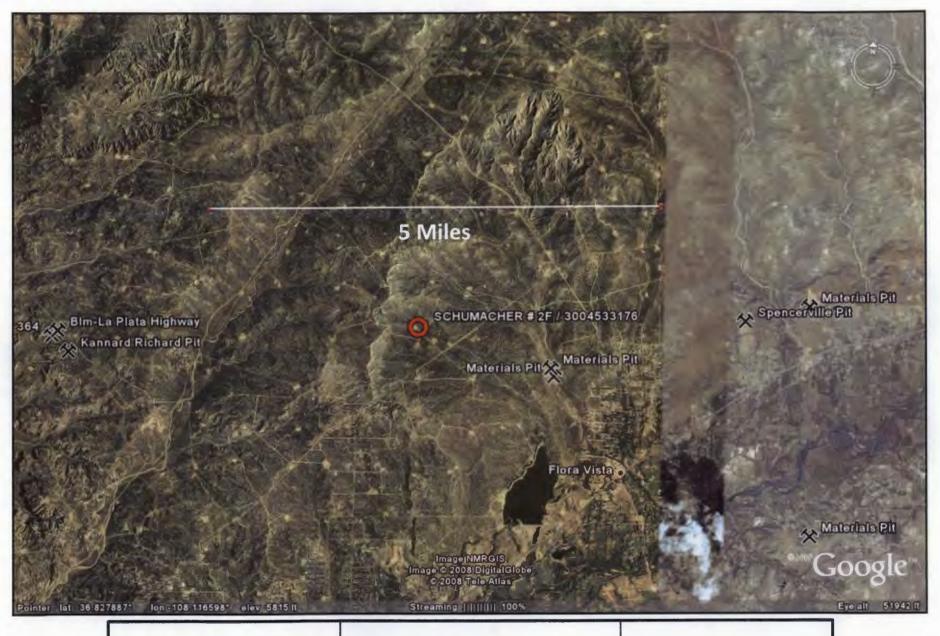
SJ	01014	30N	12W	18	3				306	250	56
SJ	01080	30N	12W	18	3	-			305	265	40
SJ	00575	301	12W	18	3	3	1		420	390	30
SJ	01514	30N	12W	18	3	4	3		430	350	50
SJ	02035	30N	12W	18	4				500	190	310
SJ	01971	30N	12W	18	4				405	345	£
SJ	02040	30N	12W	18	4	1	4		460	400	60
SJ	02247	30N	12W	18	4	3			465	375	90
SJ	01283	30N	12W	18	4	3			425	380	4.5
SJ	01809	30N	12W	18	4	4			371	317	54
SJ	01896	30N	12W	18	4	4			415	372	43

Record Count: 74



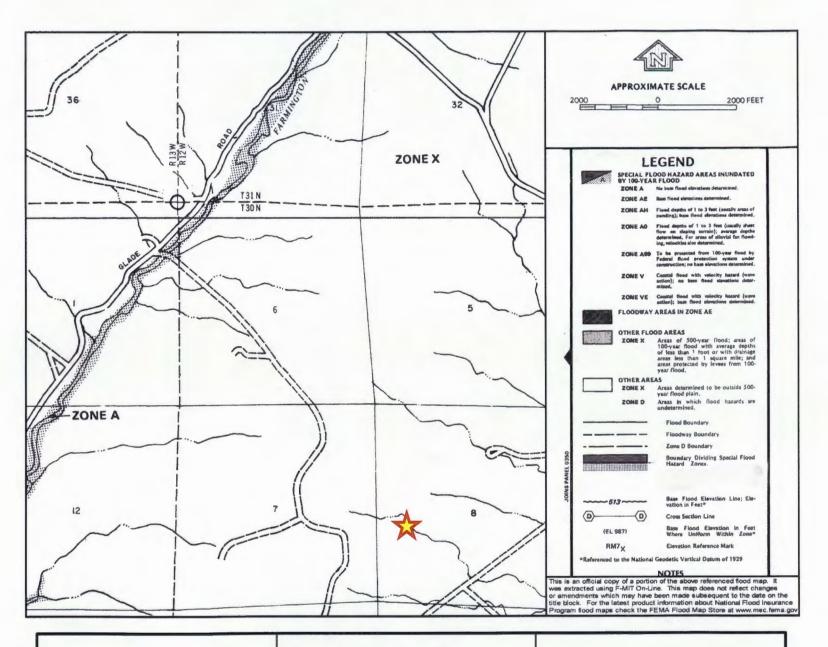
SCHUMACHER # 2F T30N, R12W, S08L

San Juan County, NM



SCHUMACHER # 2F T30N, R12W, S08L San Juan County, NM

Mines, Mills, and Quarries Map



SCHUMACHER # 2F T30N, R12W, S08L San Juan County, NM

FEMA Flood Zone 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.

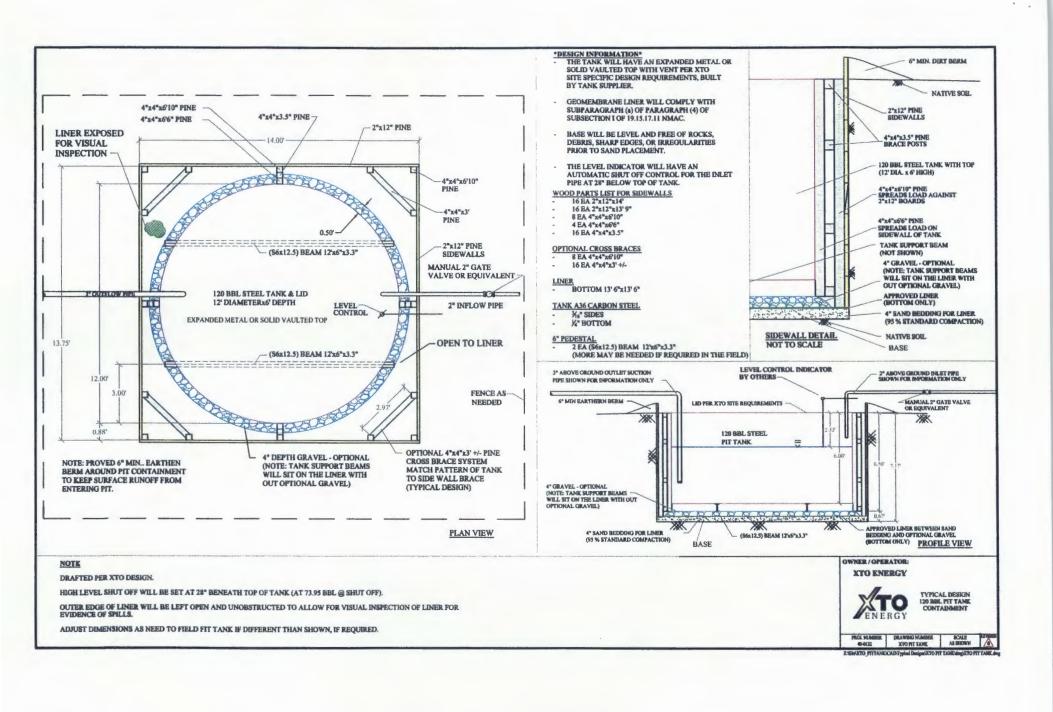
General Plan

- 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 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 below-grade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

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



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

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

General Plan

- 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.

		MONT	HLY BELO	W GRADE TANK	INSPECTIO	N FORM			
Well Nan	II Name: API No.:								
Legals	Sec:		Township:		Range:				
XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer	Any visible signs of a tank leak (Y/N)	Freeboard Est. (ft)	
			.,						
Notes:	Provide De	tailed Descri	ption:						
					· · · · · · · · · · · · · · · · · · ·				
Misc:									
			····						
l .									

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:
 - 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.