

State of New Mexico District I 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources District II Department 1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Conservation Division 4220 South St. Francis Dr. Santa Fe, NM 87505 District IV 1220 S. 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	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
Existing BOT	Modification to an existing permit
below-grade tanl	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, or proposed alternative method
<u> </u>	one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Instruction

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.

l.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name:Bolack C LS #14A
API Number: 30-045-26553 OCD Permit Number:
U/L or Qtr/Qtr 1 Section 30 Township 27N Range 08W County: San Juan
Center of Proposed Design: Latitude36.543160
Surface Owner: X Federal X 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: Thickness mil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _ <u>Visible sidewalls, vaulted, automatic high-level shut off, no liner</u>
Liner type: Thickness mil
Alternative Method:

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

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top	
☐ Monthly inspections (If netting or screening is not physically feasible)	
8. Singer Subserving Coff 10 15 17 11 NIMAC	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Breepton(5). Requests must be submitted to the building the building the building 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 acceptant material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of fice 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.	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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ⊠ No
Within a 100-year floodplain FEMA map	☐ Yes ☑ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached. ✓ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC — Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC — Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC — Design Plan - based upon the appropriate requirements of 19.15.17.12 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids		
facilities are required.	Disposal Facility Downit Number	
Disposal Facility Name:	Disposal Facility Permit Number: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	occur on or in areas that will not be used for future servers	vice and operations?
Required for impacted areas which will not be used for future service and operating Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Site Reclamation Site Re	te requirements of Subsection H of 19.15.17.13 NMA n I 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 provided below. Requests regarding changes to certain siting criteria may requested an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	e closure plan. Recommendations of acceptable soun ire administrative approval from the appropriate dist al Bureau office for consideration of approval. Justi	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; Database search;	ata 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; Database search;	ata 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; Database search;	ata obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other silake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or churc - Visual inspection (certification) of the proposed site; Aerial photo; Satellia		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approx	•	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual 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-Minim	ng and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map	gy & Mineral Resources; USGS; NM Geological	☐ 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 by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	quirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19. 15.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC on I of 19.15.17.13 NMAC	15.17.11 NMAC

• Operator Application Certification: I hereby certify that the information submitted with this application is to	rue, accurate and complete to t	the best of my knowledge and belief.
Name (Print): Kim Champlin		
Signature: Kim Champlen	Date:	_01/02/2009
e-mail address: kim_champlin@xtoenergy.com	Telephone:	(505) 333-3100
20. OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	O Conditions (see attachment)
OCD Representative Signature:	_	Approval Date: 9/17/29
Title: Environment todaine	OCD Permit Num	nber:
21. Closure Report (required within 60 days of closure completion): So Instructions: Operators are required to obtain an approved closure planet to the division within 60 section of the form until an approved closure planet has been obtained a section of the form until an approved closure planet has been obtained as	an prior to implementing any days of the completion of the	closure activities and submitting the closure report. c closure activities. Please do not complete this c been completed.
		ipiciton batc
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ If different from approved plan, please explain.	Alternative Closure Method	d ☐ Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liq two facilities were utilized.		
Disposal Facility Name:	Disposal Facility F	Permit Number:
Disposal Facility Name:	Disposal Facility F	Permit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)	med on or in areas that will not	
Required for impacted areas which will not be used for future service an Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	nd operations:	
Closure Report Attachment Checklist: Instructions: Each of the formark 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 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	closure)	nd to the closure report. Please indicate, by a check NAD: □1927 □ 1983
25.		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure		
Name (Print);	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

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.

Jones, Brad A., EMNRD

From:

Kim_Champlin@xtoenergy.com

Sent:

Wednesday, September 09, 2009 12:55 PM

To: Cc: Jones, Brad A., EMNRD Martin_Nee@xtoenergy.com

Subject:

Below Grade Pit Tank for Closure

Hi Brad,

Everytime I think I have a handle on this stuff something happens. BLM is requiring us to close a below grade pit tank because of it's location on the pad. They don't like it and want an above ground tank set. Can you please review and approve the closure plan only for the Bolack C LS #14A (30-045-26553)? It was submitted to your office on January 9, 2009. If you have any questions feel free to contact me. Thank you for your help.

Kim Champlin
XTO Energy Inc.
Sr. Environmental Rep.
(505) 333-3100 office
(505) 330-8357 cell
(505) 333-3280 fax
kim_champlin@xtoenergy.com

This inbound email has been scanned by the MessageLabs Email Security System.

AU Bes 1' 4 Hobbs, NM \$8341-1988 Matriet II 111 South First, Artesia, NM 88310 District III 1000 Rie Brame Rd., Axter, NM 87416 District [V 2949 South Pochere, Rapia Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pagheco Santa Fe, NM/87505

r . .m C 104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lesse - 3 Copies

AMENDED REPORT

•		WE	ELL LO	CATION	I AND ACE	REAGE DEDIC	CATION PL	.AT	
	Pl Numbe			1 Pool Cod	_ _		Pool No		
30-0		6555	8	2329		TERE CA	MCRIA	(GP5) EXT
1 Property C					* Property			1	Well Number
00032			1.50	LAC	Operator	S			144
'OGRID'	i i								* Elevation
000778	3		MEC	0 P	RODUCT	TIEN CC) <u>, </u>		6127
,			·			Location ·			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/Wat 1	1
	30	27N	0 Sit		2130	SOUTH	980	IJAS,	T SJ
						f Different Fro			·
UL er lot so.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West II	Ine County
u Dedicated Acr	19 9-1-1	an Tarrini	Censolidatio	Cade Luc	rder No.			L	<u> </u>
160	- Jorat	at sming)	~ 1000 0 0 9770;	2 Coce 2 C	und 110.				ļ
	VARIE V	WILL BE	ASSIGNE	D TO TH	S COMPLET	ON HATH ALL	INTEDESTS H	AVE REEN	N CONSOLIDATED
NO ALLOT	TABLE					EEN APPROVED			CONSOLIDATED
16.							17 OPER	RATOR	CERTIFICATION
				1	l		16		rmation contained herein is
	Ì	,					true and com	pleie io ihe bes	t of my knowledge and belief
	1								
•	-								
	1				Par	3000	· · ·	. 01	. 00
				15		TE IN	Stenature	ty Tyc	defele
				i i	.MAY 2 8	2396 U		tu Hae	fo10
					MAY 2 8	330 .	Pot Printed Nam	en in	
			-	(O)	IL CON	מחטים	TU:	iff Ass	istant
			<i>:</i> -		5000 DL 5010	biy.	11	16-96	
***	i				12000c	<u>.</u>	Date	ΤΨΙΩ	
				-			18CIIPV	EYOR C	ERTIFICATION
	1					8980			location shown on this plat
	1					1	was plotted fi	rom field notes	of actual surveys made by
;	!							my supervision, o the best of m	, and that the same is true y beilel.
3 1									
	.					23	Date of Surv	ey .	
							Signature and	Seal of Profes	usional Surveyer:
	j		,			J			
			•	\$					
							· ·		
	1						Certificate N	umber	
						<u></u>			

Client: **XTO Energy Pit Permit** Lodestar Services, Inc. Project: tank permitting **Siting Criteria** Revised: 1-Dec-08 O Box 4465, Durango, CO 81302 Information Prepared by: Trevor Ycas API#: **USPLSS:** 27N 08W 30 I 30-045-26553 Name: BOLACK C LS No. 014A Lat/Long: 36.543160°, -107.717060° Geologic depth < 50' San Jose Formation (Tsj) Depth to groundwater: formation: Distance to closest site elevation: continuously flowing 16.5 miles NW to 'San Juan River' 1873m/6145' watercourse: Distance to closest ~1890' W to 'Blanco Canyon' significant watercourse, main wash channel lakebed, playa lake, or sinkhole: Soil Type: Rockland Permanent residence, school, hospital, NO institution or church within 300 Annual Navajo Dam: 12.95", Governador: 11.98", Precipitation: Capulin Rgr Stn.: 14.98", Otis: 10.41" Domestic fresh water Precipitation Historical daily max. precip.: 4.19" well or spring within NO Notes: (Bloomfield) Any other fresh water well or spring within NO 1000 26N7W_iWaters.pdf, 26N08W_iWaters.pdf, **Attached** 26N09W_iWaters.pdf, 27N07W iWaters.pdf, **Documents:** NO 27N08W_iwaters.pdf, 27N09W_iwaters.pdf, Within incorporated 28N07W_iWaters.pdf, 28N08W_iWaters.pdf, municipal boundaries 28N09W_iWaters.pdf Within defined FM3500640750B_30 30-045-26553_gEarth-iWaters.jpg, 30-045-26553_gEarth-i municipal fresh water NO 045-26553.jpg PLS.jpg ,30-045-26553_topo-PLS.jpg well field NO Mining Activity: None Near Wetland within 500' NM_NRD-MMD_MinesMillQuarries_30-045-26553.jpg Within unstable area NO Within 100 year flood NO - FEMA Zone 'X' plain **Additional Notes:** W, below Blanco Mesa, NE of 'Reed drains to 'Blanco Canyon' Canyon'

Bolack C #14A Below Grade Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

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

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

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

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

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

Site Specific Hydrogeology

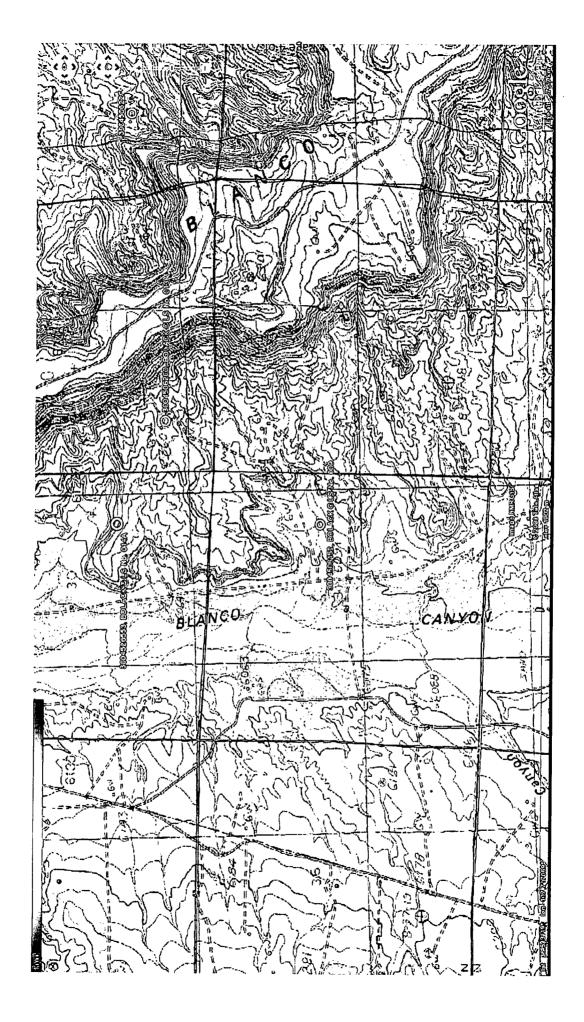
Depth to groundwater is estimated to be less than 50 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

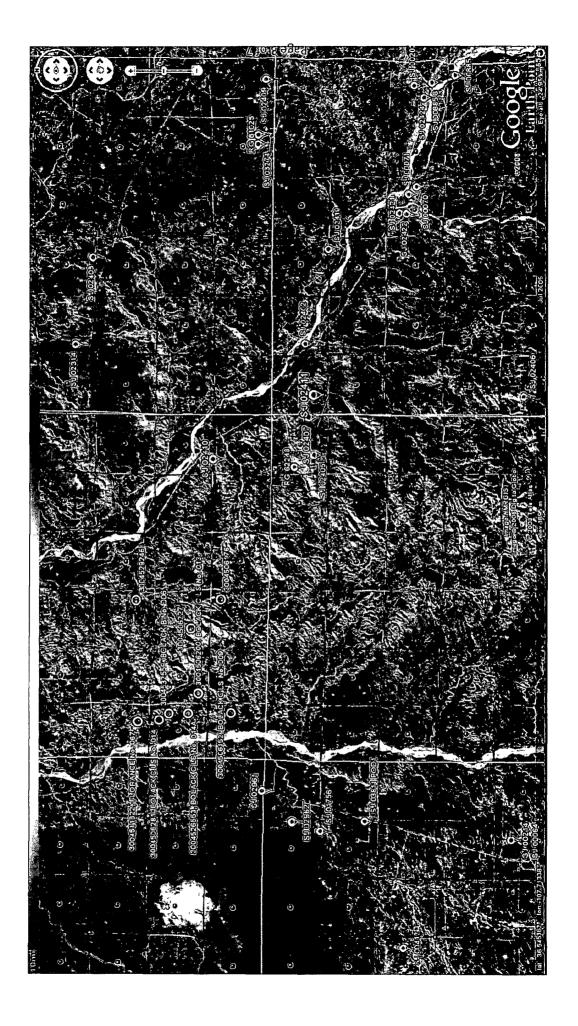
Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone, shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while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

The site in question is located on relatively flat ground below Blanco Mesa at an elevation of approximately 6145 feet and approximately 1890' east of Blanco Canyon. This site drains to Blanco Canyon, some 1890 feet to the west. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the other dominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Largo Canyon and within major tributary systems.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 2.5 miles southwest in Blanco Canyon (SJ02961). Other 'nearby' iWaters wells are located 6.1 miles north-northwest (SJ02800), 6.4 miles east (SJ02314), and ~4.7 miles southeast (SJ02410).

Wells located at similar elevations along Largo Canyon contain groundwater primarily at depths greater than 18 feet, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached. An elevation difference of only ~ 100 feet between the site and the nearest major stream channel suggests groundwater is likely present at depths less than 50 feet, as does the vegetation relative to surrounding soils.





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

Township: 28N Range: 08W Sections: NAD27 X: Zone: Search Radius: County: Basin: Suffix:	Owner Name: (First) (Last) Owner Domestic ODomestic @All	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
--	--	---	------------------------------

WATER COLUMN REPORT 08/04/2008

ず	darcers	d to	1	7	7 77	(doer cers are THINK ZHAR SHOW #HOR)						
b)	uarters	are	big	ges	t to	smallest)				Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	מ	סי	Zone	×	×		Water	Column	Column
SJ 02283	28N	08W	14	4 2	, - 1					480	09	
SJ 00209	_ 28N	M80	17	3 2	-	28N 08W 17 3 2 1			15			
SJ 00209 -AMENDED-S	S 28N	08W	17	4 1	\vdash				15		•	
sJ 00209 s	_ 28N	M80	17	4 1	Н				15		15	
sJ 00163 S	28N	M80	18	4 4	2				1450	800	650	

Record Count: 5

Township: 28N Range: 07W Sections: NAD27 X: Y: Zone: Number: Suffix:	Owner Name: (First)
--	---------------------

WATER COLUMN REPORT 08/11/2008

07W 21 3 3 3	POD Number SJ 00002 SJ 03116	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone 28N 07W 14 1 28N 07W 21 3 3 3	s are 1=NW 2=NW 2=NW 2s are biggest t Rng Sec q q q 07W 14 1 3 3 3	are 1=NW are bigge Rng Sec q 07W 14 1	NW NW 2996 3996 3996 3996 3996 3996 3996 3996	2=X= 2=X= 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10 0 0 0 10 0 10 0 10 0 10 0	quarters are 1=NW 2=NE 3=SW 4=SE) quarters are biggest to smallest) Tws Rng Sec q q q Zone 28N 07W 14 1 28N 07W 21 3 3 3	×	>	Depth Well 375	4	Water Column	Water (in feet) Column
--------------	------------------------------------	--	--	---------------------------------------	---	---	---	--	---	-------------	-----------------------	---	-----------------	---------------------------

Record Count: 2

8/11/2008 5:24 PM

New Mexico Office of the State Engineer POD Reports and Downloads

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

Township: [28t4 Range: [06W] Sections: NAD27 X: Y: Zone: Search Radius: Sourch

		FOD / SORFACE DATA REPORT 10/11/2008	10/11/2008													
				quarters are	1=NW 2=	NE 3=SW 4	=SE)									
	(acre	(acre ft per annum)		quarters are	biggest	to small	est	×	X Y are in Feet		UTM are	in Meters)		Start	Finish	Depth
DB File Nbr	Use	Diversion Owner	POD Number	Source	Tws Rr	ng Sec q c	2	ē	×	<u>-</u>	JTM Zone		Northing	Date	Date	Well
SD 07849		3 ROSA B. MARTINEZ	SD 07849		28N 06	5W 13 2 4	-				13		4060381			
83 00200	OF.	20 BURLINGTON RESOURCES OIL & G	AS SJ 00200	Artesian	28N 06	5W 23 3 2					13				05/23/1967	1551
83 03005	STK	3 DON SCHREIBER	8J 03005	Shallow	28N 06	5W 21 4 2	7				13			08/06/2000	08/10/2000	245
8J 03043	STK	3 JANE SCHREIBER	SJ 03043	Shallow	28N 06	W 21 4 2	2				13			09/01/2000	09/03/2000	290
SJ 03091	STK	3 JANE SCHREIBER	SJ 03091	Shallow 28N 06W 29 2 2 3	28N 06	SW 29 2 2	ຕ				13	277834	4057457	05/17/2001	05/18/2001	150
SJ 03443	STK	O DON SCHREIBER	SJ 03443	1	28N 06	5W 22 3 3	m				13					300
8J 03675	MOG	3 ARTURO R. SANCHEZ	8J 03675	Shallow	28N 06	06W 14 4 3	4 C	153167	167 2059732	732	13		4059346	11/08/2005	11/10/2005	420
SJ 03700	STK	3 JANE SCHREIBER SJ 03700 POD1	SJ 03700 POD1	Shallow	28N 06	SW 12 2 3	₹7*							02/20/2006	02/25/2006	450
Record Count:	ъ															

Depth Dept Well Water Finish Date UTM are in Meters) Start UTM_Zone Easting Northing Date ONon-Domestic ODomestic @All × ☐ Number: ☐ Suffix: ☐ POD / Surface Data Report Avg Depth to Water Report Water Column Report (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest X Y are in Feet Source Tws Rng Sec q q q 2one X Search Radius: New Mexico Office of the State Engineer POD Reports and Downloads Clear Form WATERS Menu Help Sections: Zone: Township: 27N Range: 09W (Last) |-|-|-☐ Basin: ☐ NAD27 X: Owner Name: (First) POD Number POD / SURFACE DATA REPORT 08/12/2008 County: (acre ft per annum) Use Diversion Owner No Records found, try again DB File Nbr

8/12/2008 8:26 PM

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

NAD27 X: Y: Zone:	me: (First) (Last)	POD / Surface Data Report	Clear Form iWATERS Menu Help	WATER COLUMN REPORT 08/04/2008	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water (in feet)
J	0				
	NAD27 X: Zone:	D27 X: Y: Zone:	Nu	D27 X: Y: Zone:	D27 X: Y: Zone:

Record Count:

POD Number SJ 02410

Water (in feet) Column

Depth Water

Depth Well2200

Zone

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

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

Township: 27N Range: 07W Sections:	NAD27 X: Zone: Zone: Search Radius:	County: Suffix: Suffix:	Owner Name: (First) Clast) Owner Name: (First) Onestic	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
		Count	Owner		

WATER COLUMN REPORT 08/04/2008

	(quarters	are	1=1	V 2=NE	3-SW 4-SE	_					
	(quarters	are	bigg	jest t	(quarters are biggest to smallest)			Depth		Water	(in feet)
POD Number	Tws	Rng	Sec	ים ים	Zone	×	×	Well	Water	Column	
	27N	0.7 W	35 4	133				560		95	
	27N	0.7W	15 2	٥.				1633		1133	
	27N	M L O	17 3	3.3				355		35	
SJ 02408	27N	07W	21 2	2 1 3				400		100	
	27N	0.7W	35	3 4 4				450			
	27N	ML0	35 4	1 3 3				550		300	

Record Count: 6

New Mexico Office of the State Engineer POD Reports and Downloads

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

								Depth	Well	445	452	1308		505	141	
								Finish	Date	11/07/1956	11/12/1956	06/20/1974		12/31/1946	07/04/2000	
								Start	Date	11/01/1956	11/08/1956				06/28/2000	
									Northing	4044923	4044923	4045750	4048335	4047115	4052831	
								n Meters)	Easting	276278	276278	276897	281993	274714	276165	
				o All				UTM are in Meters)	UTM Zone	13	13		13	13	13	
				omestic	<u></u>				×							
		dius:] Suffix: [O Non-Domestic O Domestic © All	olumn Report			X X are in Feet	×							
		Search Ra	Number:	Non-Dom	Water C	delp										
r OD reports and Downloads		Zone: Search Radius:	Numb	°	Vater Report	S Menu		S=SW 4=S o smalles	Secqqq	06W 32 3 3 3	32 3 3 3	32 144	23 4 3 1	30 3 1 3	07 2 2 1	
chores and	Sections	Zone			'g Depth to V	WATER		1=NW 2=NE	Tws Rnd	27N 06W	27N 06W 32	27N 06W	27N 06W	27N 06W	27N 06W	
N OOL	Township: 27N Range: 06W Sections:	Υ.	Basin:	(Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help		(quarters are l=NW 2=NE 3=SW 4=SE) (quarters are biddest to smallest	Source	Shallow	Shallow	Shallow			Shallow	
	Township:	NAD27 X:	County:	Owner Name: (First)	POD / Surfa		09/16/2008		POD Number	SJ 00061	SJ 00062	SJ 00213	SJ 02291	SJ 02403	SJ 03001	
			Š	Owner 1			POD / SURFACE DATA REPORT 09/16/2008	(acre ft ner annim)	Diversion Owner	0 EL PASO NATURAL GAS COMPANY	0 EL PASO NATURAL GAS COMPANY	17 EL PASO NATURAL GAS COMPANY	3 BLM	2 JOE OR WILMA KAIME	3 CHARLES E. BRADLEY	
								(acre f	Use		MOG I	IND	STK	MOG	MOM	
									DB File Nbr	SJ 00061	SJ 00062	SJ 00213	SJ 02291	SJ 02403	SJ 03001	

Record Count: 6

Range: 09W Sections:	Y: Zone: Search Radius:	n: Number: Suffix:	(Last) ONon-Domestic ODomestic @All	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form WATERS Menu Help
Township: 26N Range: 09W Sec		County: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth	

WATER COLUMN REPORT 08/08/2008

	(quarter	s are	1=1	W 2=	問題	=SW 4=SE)							
	(quarter	s are	big	gest	ţ	smallest)		Depth	Depth	Water	(in	feet)	
	Tws	Rng	Sec	ה ה	יט	Zone	×	Well	Water	Column			
	26N	M60	0.1	2 2	3			1500					
	26N	M60	0.1	3	\sim			1500					
	26N	M60	11	2 2	3			75	40	35			
	26N	M60	12	3	~			348	175	173			
	26N	M60	16	4 2				202	65	137			
	26N	M60	26	2 4	2	26N 09W 26 2 4 2		946	230	716			
SJ 00064	26N	M60	26	4 2	\vdash			490	215	275			
SJ 00063		M60	56	4 2	3			479	234	245			
	Ì												

Record Count: 8

8/8/2008 1:59 PM

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

WATER COLUMN REPORT 08/07/2008

ਰ)	larter	s are	1=1	Z <u>₹</u>	= E	quarters are $1=NW$ $2=NE$ $3=SW$ $4=SE$)							
ਲ)	larter	s are	big	ges	t t	(quarters are biggest to smallest)				Depth	Water	Water (in feet)	
POD Number	Tws	Rng	Sec	ם ה	ש	Zone	×	×	Well	Water	Column		
SJ 02405	26N	08W	0.1	3.4	m				180	100	80		
SJ 02411	26N	08W 01 4 4 1	01	4 4					0009				
	_ 26N	08W	01	4 4	Т				2200				

Record Count: 3

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 26N Range: 07W Sections: NAD27 X. Tone Y. Zone Zone Search Radius: Tone Tone Tone Search Radius: Tone Tone Tone Tone Tone Tone Tone Tone	Basin: Nun	Owner Name: (First) Clast (Last) Owner Name: (First) Ohon-Domestic Ohonestic Ohonestic Ohonestic Ohonestic	POD / Surface Data Report	Clear Form iWATERS Menu Help
	Con	Own		

WATER COLUMN REPORT 08/06/2008

	(quarters are $1=NW$ $2=NE$ $3=SW$ $4=SE$)	are	1=	IW 2=N	E 3=	SW 4=SE)						
	(quarter	are	big	gest	tos	mallest)			Depth	Depth	Water	(in feet)
POD Number	Tws Rng Sec q q q Zone	Rng	Sec	ק ק ק	2	Zone	×	Ħ	Well	Water	Column	
	26N	ML0	01	122					700	400	300	
SJ 02402	26N	M L O	0.5	3 3 2					36	18	18	
	26N	ML0	15	4 1 2					365	26	339	
	26N	0 7 W	15	4 2 3					335	22	313	
	26N	M/0	30	3 2 1					280	180	100	

Record Count: 5

8/6/2008 3:00 PM

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

Township: 26N Range: 06W Sections:	NAD27 X: Zone: Zon	County: Suffix: Suffix:	Owner Name: (First) Clast) Owner Name: (First) Ohon-Domestic Ohon-Domest	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help	WATER COLUMN REPORT 08/12/2008	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Mater (in feet) nber Tws Rng Sec q q q Zone X Y Well Water Column
						:	Number

No Records found, try again

POD Number

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

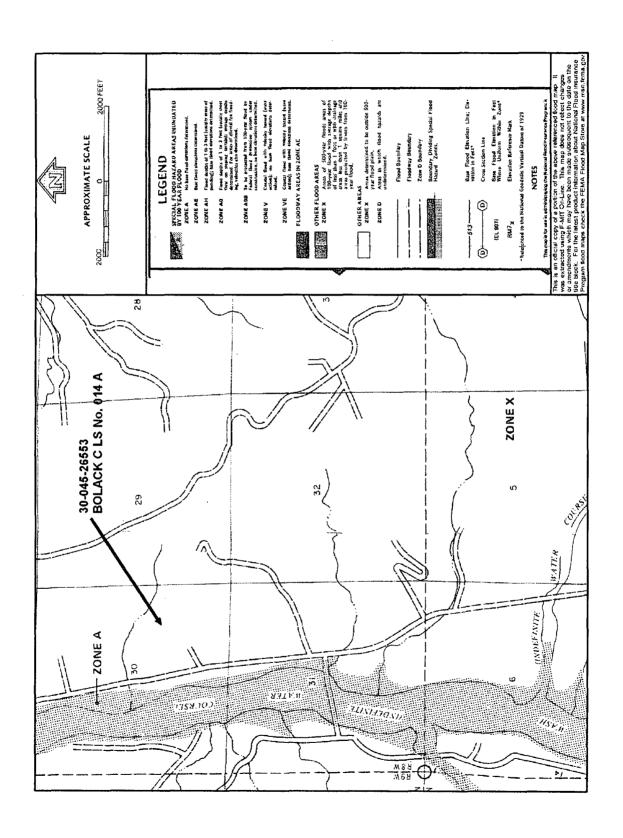
Township: 28N Range: 09W Sections:	VAD27 X: Y: Zone: Search Radius:	Basin: Number: Suffix:	ne: (First) Clast) Clast) ONon-Domestic ODomestic @All	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form iWATERS Menu Help
Township:	NAD27 X: ☐	County:	Owner Name: (First)	POD / Surfa	

WATER COLUMN REPORT 08/06/2008

	(quarter	s are	1=N	2=NE	(quarters are $1=NW$ $2=NE$ $3=SW$ $4=SE$)	~						
	(quarter	s are	bigg	est t	(quarters are biggest to smallest)	~			Depth	Water	Water (in feet)	
POD Number	Tws	Rng	ec q	מ	Zone	×	×		Water	8		
SJ 03746 POD1	28N	09W 2	0.7	2 3				190	40	150		
SJ 00018	28N	09W 20 3 1 4	30.3	1 4				135	71	64		
SJ 02800	28N	09W	4 4	2 3				200				

Record Count: 3





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.

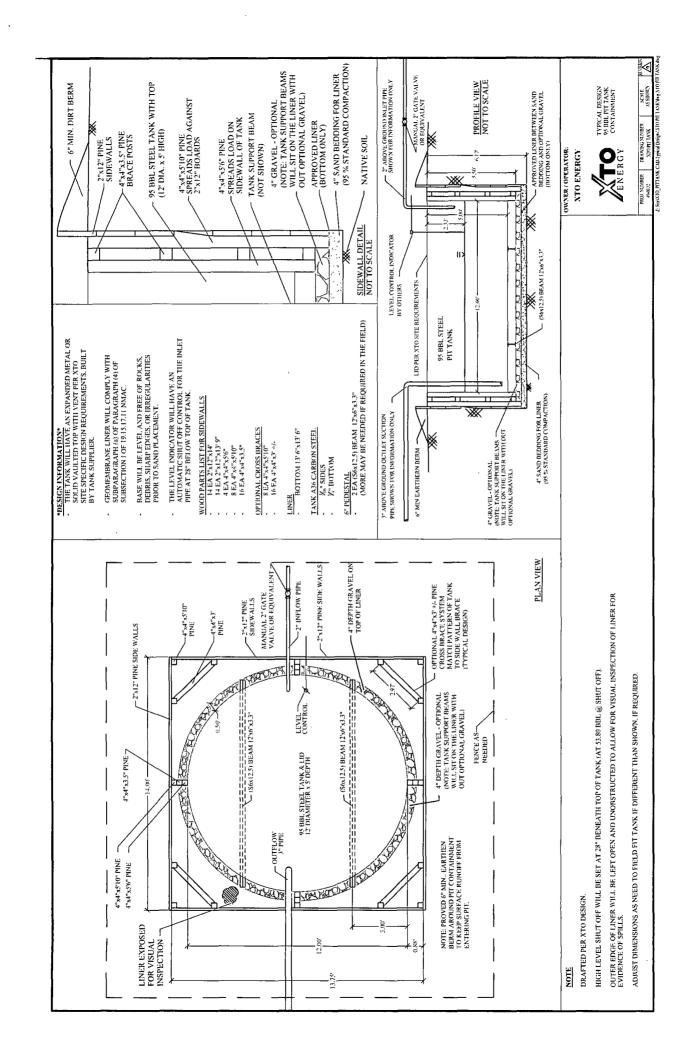
General Plan

- 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

- 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.

		MONT	1LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	NSPECTIC	N FORM		
Well Name:					API No.:			
Legals	Sec:		Township:		Range:			
XTO	Inspection	Inspection	Any visible	Any visible signs of	Collection of	Visible laver	Any vicinis eldisiv va A	Treeborg
Name	Date		tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
-								
1100								
Notes:	Provide De	Provide Detailed Description:	otion:					
Misc.								