District I REGISTERED District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico erals and Natural Resources Department onservation Division [] 1220 South St. Francis Dr. Santa Fe, NM 89505 [] 4 44	Form C-144 July 21, 2008 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, C	losed-Loop System, Below-Grade T	Sank, or
Proposed Alte	rnative Method Permit or Closure P	Plan Application
Type of action: Existing BGT Closur Modif Closur below-grade tank, or propos	of a pit, closed-loop system, below-grade tank, or e of a pit, closed-loop system, below-grade tank, or cation to an existing permit e plan only submitted for an existing permitted or ed alternative method	r proposed alternative method or proposed alternative method non-permitted pit, closed-loop system,
Instructions: Please submit one applica	tion (Form C-144) per individual pit, closed-loop syste	em, below-grade tank or alternative request
Please be advised that approval of this request does no environment. Nor does approval relieve the operator of	t relieve the operator of liability should operations result in f its responsibility to comply with any other applicable go	n pollution of surface water, ground water or the vernmental authority's rules, regulations or ordinances.
Operator: <u>XTO Energy, Inc</u> .	OGRID #:	5380
Address: #382 County Road 3100, Aztec, N	IM 87410	
Facility or well name: Bergin Gas Com #1E		
API Number: 30-045-23756	OCD Permit Number:	
U/L or Qtr/Qtr F Section 21	Township 29N Range 10W Cou	nty: <u>San Juan</u>
Center of Proposed Design: Latitude 36.71345	Longitude 107.99939	NAD: 1927 🛛 1983
Surface Owner: 🔲 Federal 🛄 State 🛛 Private	Tribal Trust or Indian Allotment	
Pit: Subsection F or G of 19.15.17.11 NMA Temporary: Drilling Workover Permanent Emergency Cavitation Lined Unlined Liner type: String-Reinforced Liner Seams: Welded	C P&A mil	her Dimensions: L x W x D
3.		
□ Closed-loop System: Subsection H of 19.15 Type of Operation: □ P&A □ Drilling a new v intent) □ Drying Pad □ Above Ground Steel Tanks □ Lined □ Unlined Liner type: Thickness Liner Seams: □ Welded □ Factory □ Other	.17.11 NMAC vell 🗌 Workover or Drilling (Applies to activities whi 🗌 Haul-off Bins 🗋 Other mil 🔲 LLDPE 🗌 HDPE 🔲 PVC 🗍	ch require prior approval of a permit or notice of Other
Below-grade tank: Subsection [of 19.15.17 Volume: <u>95</u> bbl Type of flu Tank Construction material: <u>Steel</u> Secondary containment with leak detection [Visible sidewalls and liner Visible sidew Liner type: Thicknessmi	.11 NMAC uid: Produced Water	erflow shut-off natic high-level shut off, no liner
 5. Alternative Method: Submittal of an exception request is required. Ex 	ceptions must be submitted to the Santa Fe Environment	ntal 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, 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

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)

Signs: Subsection C of 19.15.17.11 NMAC

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9.

10.

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 office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC	ntable source
Instructions: The applicant must demonstrate compliance for each string criteria below in the application. Recommendations of acceleration and the application of the approvements of the approvements of the approvements of the approvements of the applicant must be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of the 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.	opriate district approval. ying pads or
 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
 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. (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.	Yes 🛛 No

Within a 100-year floodplain.

FEMA map

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be anached to the application. Freuse indicate, by a check mark in the box, that the abcaments are attached. Image: Application in the intervention of the
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 Previously Approved Design (attach copy of design) API Number:
13
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 Muisance or Hazardous Odors, including H ₂ S, Prevention Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
 ^{15.} Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

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^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two
facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser 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	с
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rce material are rict office or may be ifications and/or
 Ground water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ☐ No ☐ NA
 Ground water is between 50 and 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes No
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ☐ No ☐ NA
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗋 Yes 🗌 No
 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗋 Yes 🗋 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗋 Yes 🗌 No
 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
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - 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 cam Soil Cover Design Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC 	lan. Please indicate, .15.17.11 NMAC not be achieved)

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19. Operator Application Certification:		
I hereby certify that the information submitted with this application is true	, accurate and complete to t	he best of my knowledge and belief.
Name (Drint): Kim Champlin	Title	Environmental Representative
Name (Print):	Frite	
Signature: Kim Mampler	Date:	11-26-08
e-mail address: <u>kim_champlin@xtoenergy.com</u>	Telephone:	(505) 333-3100
20. OCD Approval: Permit Application (including closure plan) Clo	osure Plan (only) 🔲 OCI	O Conditions (see attachment)
OCD Paprosantative Signature		Approval Date:
Title:	OCD Permit Nun	1ber:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Sub- Instructions: Operators are required to obtain an approved closure plan The closure report is required to be submitted to the division within 60 da section of the form until an approved closure plan has been obtained and	section K of 19.15.17.13 N prior to implementing any ays of the completion of the the closure activities have Closure Con	MAC closure activities and submitting the closure report. e closure activities. Please do not complete this e been completed. apletion Date:
 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 S Instructions: Please indentify the facility or facilities for where the liquit two facilities were utilized. Disposal Facility Name:	ystems That Utilize Above ds, drilling fluids and drill Disposal Facility	e Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more than Permit Number:
Disposal Facility Name:	Disposal Facility	Permit Number:
Were the closed-loop system operations and associated activities performe Yes (If yes, please demonstrate compliance to the items below)	d on or in areas that will no No	t be used for future service and operations?
Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	operations:	
 24. <u>Closure Report Attachment Checklist</u>: Instructions: Each of the following the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) 	wing items must be attache	ed to the closure report. Please indicate, by a check
On-site Closure Location: Latitude	Longitude	NAD: 1927 1983
 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with this of belief. I also certify that the closure complies with all applicable closure in Name (Print): 	closure report is true, accura requirements and conditions Title:	ate and complete to the best of my knowledge and s specified in the approved closure plan.
Signature:	Date:	
e-mail address:	Telephone: _	

1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

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

AMENDED REPORT

1	API Numbe	r		¹ Pool Code							
30	-045-237	56		82329		Otero Chacra					
⁴ Property	Code				⁵ Property N	ame		* Well Number			
				Bergin Gas	Com		1E				
OGRID	No.					⁹ Elevation					
167067 XTO Energy, Inc.							5	5,453' GR			
					¹⁰ Surface L	ocation					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
F	21	29N	11W		1,835'	North	1,965'	West	San Juan		
			ПВо	ottom Ho	le Location If	Different From	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acres	¹³ Joint of	r Infill	Consolidation (Code 15 Or	der No.		l				
160	- P	•									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	1.835'			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Ray Martine Signature
1,965'				Ray Martin Printed Name Operations Engineer Title September 14, 2001 Date
		2001		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. August 21, 1979
		ALL OCH	01. 3 2.2.1.1.1.1.2.2.2.	Signature and Seal of Professional Surveyor: Original signed by Fred B. Kerr 3950 Certificate Number

District I

Form C-102

Revised August 15, 2000

WELL LOCATION AND	ACREAGE DEDICATION PLAT
² Pool Code	³ Pool Name
82329	Otero Chac

A		Dià Donnià	Client:	XTO Energy			
Lodestar Services, Inc.		Pit Permit	Project:	Pit Permits			
70 Bez 4465, Durang	0 81302	Siting Criteria	Revised:	19-Nov-08			
V		Information Sheet	Prepared by:	Brooke Herb			
API#:		3004523756	USPLSS:	T29N,R11W,S21F			
Name:	BER	GIN GAS COM #1E	Lat/Long:	36.71345, -107.99939			
	the fight for the second		Geologic				
Depth to groundwater:		< 50	formation:	Nacimiento Formation			
Distance to closest continuously flowing watercourse:	5085' N	of the San Juan River					
Distance to closest ignificant watercourse, lakebed, playa lake, or sinkhole:	1888' S Ditch; 19	of Citizens Irrigation 57' E of Green Canyon Wash					
			Soil Type:	Entisols			
Permanent residence, school, hospital, institution or church within 300'	Yes - 24	10' NW of Permanent Residence					
			Annual Precipitation:	8.71 inches (Bloomfield)			
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precip events			
Any other fresh water well or spring within 1000'	Yes - 90	5'NW of iWaters well SJ00542	L				
Within incorporated municipal boundaries		es - Bloomfield	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map			
Within defined municipal fresh water well field		Yes		Aerial Photo, Topo Map: Mines Mills and Quarries Map			
	na fa fa stall stall stall. Ann i stall stal	e de la sulta de la contra parte de la contra de la contra La contra de la contr					
Wetland within 500'		No	Mining Activity:				
Within unstable area		No		3440' NW of a Materials Pit			
Within 100 year flood plain	No - F	EMA Flood Zone 'X'					
	भाषित् त्रिया प्रदेश वर्ष भाषित् त्रिया प्रदेश वर्ष	e negative to the set of the set	ر م مد م المدينية المدينية على الان و الم مد م المدينية المدينية على الان	and the hold it the of a to the part of a second of the			

BERGIN GAS COM #1E Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T29N, R11W, Section 21, Quarter Section F Latitude/Longitude: approximately 36.71345, -107.99939 County: San Juan County, NM General Description: in Bloomfield, New Mexico

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 near Green Canyon in Bloomfield, New Mexico between the Animas and San Juan rivers. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

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

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

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

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

Site Specific Hydrogeology

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

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the San Juan River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. However, the proposed site is situated 5085 feet to the north of the San Juan River, and is approximately 50 feet higher in elevation (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 to the south along the San Juan River. Depth to groundwater within the nearby wells ranges from 3 feet to 59 feet below ground surface. The closest well to the proposed site is located approximately 905 feet to the southeast, and is approximately 12 feet lower in topographic elevation (Google Earth). Depth to groundwater within the well is 10 feet below ground surface. A well to the south is approximately 17 feet lower in elevation then the proposed site, and has a depth to groundwater of 10 feet below ground surface. The shallow groundwater nearby as well as the close proximity to Green Canyon Wash and the San Juan River suggest that groundwater depth is less than 50 feet at the proposed site.





New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 10/20/2008

	(quarter	s are	e 1=	NW	2=	NE	3=SW 4=	SE)					
	(quarter	s are	e bi	gge	est	t to	smalle	st)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	P	P	Zone	Х	Y	Well	Water	Column	
SJ 00867	2'9N	117	07	4						77	55	22	
SJ 01302	2 9 N	110	07	4	1					250	210	40	
SJ 01891	2.93	11W	07	4	1	3				157			
SJ 01851	2 9 N	110	10	4	4					125	48	77	
SJ 02466 S	29N	110	11	4	3	3				65			
SJ 02466	2 9 N	117	11	4	3	3				ee.			
SJ 02991	2.9N	110	13	3	4	2				60			
SJ 03136	29N	11W	13	3	4	4				20			
SJ 00987	2.9N	110	13	4						415	300	115	
SJ 01426	29N	110	14	1	4					155	10	145	
SJ 00007	29N	110	14	2	2	3				752			
SJ 03550	2 9 M	11W	14	3	2	-				10			
SJ 01774	2 5 N	1177	14	3	4	2				82	6	76	
SJ 03360	2 9 N	11W	14	3	4	2				40			
SJ 03175	2.9%	111	14	4	2	3				60	24	36	
SJ 03164	2 9 N	11M	14	4	2	<u>1</u>				75	56	19	
SJ 03733 POD1	2 9 N	11M	15	4	1	2				64	20	44	
SJ 02378	2 9 N	110	15	4	З	2				75	12	63	
SJ 03579	2 9 N	$\pm 1 W$	15	4	4	5				83	30	53	
SJ 02141	2 9 N	117	16	4	3	-				110	4.0	70	
SJ 02926	29N	ElW	17	2	4	3				375	80	295	
SJ 03399	2 9N	TIM	17	4	2					100			
SJ 00487	2 9 %	11W	17	4	4					€0	6	54	
SJ 02868	2 9 N	117	17	4	4	4				50			
SJ 01641	2 9 N	110	19	2	2	3				120	55	65	
SJ 02026	2 9 N	110	19	3	1		4	40000	2077700	27	6	21	
SJ 02970	2 9 N	11W	19	4	3	2				100	18	32	
SJ 01250	2 9 N	11W	19	4	4					60	20	40	
SJ 02869	2 9N	71M	20	2	2	1				50			
SJ 00583	2 9N	110	20	3	3	2				130	30	120	

SJ	01355		2.9N	110	20	4	4	
SJ	00452		29N	110	21			
SJ	01969	-	29N	117	21	2		
SJ	00701	CLW312190	29N	110	21	2	2	
SJ	00701		292	110	21	2	2	1
SJ	03350		29N	110	21	2	2	3
SJ	01090		29N	117	21	2	4	
SJ	02863		2.5N	117	21	2	4	<u>1</u>
SJ	03659		29N	117	21	з	2	2
SJ	01888		29N	110	21	4	2	2
SJ	02200		29N	117	22			
SJ	01557		29N	110	22	1	2	
SJ	00796		2 9 N	117	22	1	2	
SJ	00704		29N	110	22	1	2	
SJ	01703		25N	11W	22	1	2	
SJ	03747	POD1	29N	110	22	1	2	3
SJ	02813		2 9 N	11W	22	1	2	3
SJ	01214		29N	110	22	l	3	
SJ	00484		29N	110	.22	1	3	1
SJ	00320		29N	11W	22	1	3	1.4
SJ	03532		29N	110	22	1	3	3
SJ	00151		2 9 N	110	22	1	5	4
SJ	02721		29N	117	22	1	4	
SJ	03503		2.92	TIM	22	2	3	3
SJ	02578		2.92	1.1.19	22	2	3	3
55	03093		275	1.1.27	44	4	3	-
30	03189		2 9 N	1.1.27	22	3	4	-
5J 6 T	02020		2 2 2 3	1.1.77	44	3	4	2
35	02020		2 2 3 1	1.1.17	22	2	3	
21	02529		2 7 N 2 CM	1.1.54	22	4	4	2
33 C T	02479		2 73V 0 5.NT	1 1 54	22	-1	4	3
30 CT	039/9		2 739	1.1.17	24	4	1	3
27	00696		2 2 5	1 1 04	24	-1	4.0	18
50	01974		2 225	1 1 14	22	4	0	2
ST.	03567		2 5 5	3.155	24	1	0	3
ST	03557		2 919 2 919	1.154	23	1	40	3
53	03550		2 231	1.157	23	1	5	4
ST	03559		2 73V 2 9 M	1.157	23	1	00	4
SJ	00812		2 9 W	2,157	23	1	3	-
30	TLOAN		2 3 35	11	20	1	-12	

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2.9N	110 20	4	4		36	3	33
2 9 N	11W 21				42	10	32
ZSN	110 21	2			65	55	10
29N	110 21	2	2		70	14	56
2928	110 21	2	2	1	73		
29N	110 21	2	5	3	50		
2 9 N	117 21	2	4		31	12	19
2.4M	1120 21	- 2	4	3	52	20	22
2 9 1	110 21	3	2	2	45	10	32
2.9%	112 21	4	2	2	47	9	36
2 632	1150 22	-	-	-	40		32
2 9 13	110 22	3	7		7.6	11	30
2 6 32	1151 22	1	-		= 0		40
2 9 1	112 22	1	- 2		50	20	32
2 6 83	1131 22	1	2		20		55
7.937	110 22	1	-	2	47	3	20
2 2 2 3 3 7 2 3 3	1151 22	3	- 0	2	30	47	20
0.030	110 22	-	-	5	33	10	23
2 729 7 0 M	110 22	+	3	4	49	12	37
6 7 2V 0 /0 N	110.22	- <u>+</u>	3	÷	37	10	21
2 9 28	11W (22	+	5	1	38	10	28
ZEN	110 22	1	3	3	49	14	35
2 9 24	110 22	1	5		45	18	27
2934	110 22	1	4			59	
2 ¥20	11W 22	2	3	3	72	18	54
29N	110 22	- 2	3	3	58	24	34
293	119 22	2	3	1	42	22	20
2 9 N	110 22	3	2	2	45	20	25
2 9 N	110 22	3	2	2	45	11	34
2 9 N	110 22	3	3		27	e	21
29N	110 22	4	2		40	7	33
29N	110 22	4	-2	3	30	ġ,	21
2 9 N	110 22	4	2	3	43	4	39
2 9 N	110 22	4	2	1	33	10	23
292	11W 22	4	З		34	12	22
2 9 N	11W 22	4	3	3	47	11	36
292	110. 23	1	2	3	50	22	28
2 9 N	11W 23	1	3	1	50	15	35
2 9 N	110 23	1	3	1	50	15	35
2 9 N	11W 23	1	3	4	45	13	30
2 9 N	111 23	3	4		44		
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CT 03546	2 G M	1181 22	1				= 0	15	2.5	
SJ 03346	2 919	110 23	- +	4 4			50	15	35	
ST 01970	2 6 32	310 22		4 4			50	20	35	
ST 02120	2 6 5	1151 23		1 3			50	20	20	
ST 03201	2.637	1151 2.2	2	1 3			40	20	20	
C7 02262	2.537	2732 22		2 2			40	90	20	
SJ 03353	2 228	110 23	-	1 3			45	28	20	
ST 01572	2 2 2 3	110 23	4	4			32	23	<u>47</u>	
ST 03073	2 599 2 6 M	11W 23	4	0 1			94	24	213	
51 03296	2.20	110 23	-	3 4			30	0.0	T	
53 03200	2.28	118 23	3	3 4			30	40	10	
53 02/33	2.75	11W 23	4	1 1			50	10	91 0 T	
ST 01962	4 7 N	110 22	- 14	4 4			.50	10	35	
53 01962	2 9 N	110 24	1	2 Z 4 3			45	14	33	
53 03343	2.93	110 24	-	4 4			.32	51	10	
53 00804	298	11W 25	1	а 			37	45	12	
SJ 01808 0-5	298	11W 26	3	1 -			52	43	9	
SJ 02121	2.939	11W 27	1	1			30	÷	24	
SJ 02210	29N	110 27	1	1			32	E.	24	
SJ 03588	29N	110 27	1	1 2						
<u>SJ 02227</u>	29N	11W 27	1	14			27	e	21	
<u>SJ 00700</u>	29N	11W 27	1	3 3			20	7	13	
SJ 01808 0-4	29N	11W 27	2	3 3			32	25	7	
SJ 01808 0-1	29N	11W 27	2	4 2			25	17	8	
SJ 01808 0-2	29N	11W 27	2	4 3			27	19	9	
SJ 01808 0-3	29N	11W 27	2	4 4			39	34	5	
SJ 02664	29N	110 27	3	2			40	26	14	
SJ 02664 S	29N	11W 27	Э	2			38	23	15	
SJ 02664 S-2	29N	11W 27	З	2			34	15	15	
SJ 02664 S-3	2 9 N	11W 27	З	4			412	30	11	
SJ 02664 S-9	29N	11W 27	3	2			33	19	14	
SJ 02664 S-4	29N	11W 27	3	2			42	30	12	
SJ 02664 S-10	29N	11W 27	3	2			33	19	14	
SJ 02664 S-5	29%	111 27	3	2			41	30	11	
SJ 02664 S-6	29N	11W 27	3	2			40	28	12	
SJ 02664 S-7	29N	11W 27	3	2			37	23	14	
SJ 02664 S-8	29N	11W 27	3	2			35	25	10	
SJ 02148	29N	110 27	긜	2			305	186	119	
SJ 01808 0-6	2 9N	110 27	4	2 1			50			
SJ 03762 POD1	29N	11W 28	1	1	267348	2075529	27	15	12	
SJ 03476	29N	11W 28	1	1 2			65			

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SJ 03415	29N	11W 28	1 :	2 1			60	20	
SJ 02559	29N	11W 28	1:	2 4			15	7	
SJ_02330	29N	11W 28	2 .	1			128	115	
SJ 03021	29N	11W 28	2 :	13			le	5	
SJ 01606	293	11W 28	2 3	2			35	8	
SJ 03468	293	11W 28	2	4	367704	2073506	50		
SJ 03469	2 937	11W 28	2 -	4 3			50		
SJ 02713	2 9 N	11W 28	3	1 1			26	12	
SJ 02858	29N	110 28	3	1 3			40		
SJ 02714	29N	11W 28	3 3	2			43	28	
SJ 02708	29N	110 28	3 :	2			26	12	
SJ 03149	29N	11W 28	4 :	2 2			€0	35	
SJ 03475	29N	11W 29	1	1 3			4.0	20	
SJ 00292	29N	11W 2.9	2	1 4			24	ġ.	
SJ 01554	2 9 N	11W 29	2 3	2			35	18	
SJ 02038	2 9 N	110 25	4	1			14	4	
SJ 03298	2.937	11W 29	4	1 1			70	e	
SJ 02023	2 9 N	11W 29	4	2			24	7	
SJ 02182	2 9 N	11W 29	4 :	2			27	11	
SJ 00822	29N	11W 29	4	3 '			34	15	
SJ 03421	29N	11W 29	4	4 3			50	28	
SJ 01391	2 9N	110 30	2				40	25	
SJ 03348	2 9N	110 30	2	1 3			60		
SJ 01260	2 9 N	11W 30	2 :	2			42	16	
SJ 01264	2 9N	11W 30	2 :	2			27	12	
SJ 01328	2 910	11W 30	2 :	2			2.8	15	
SJ 01821	2 9 N	11W 30	2	4			7.6	e	
SJ 00875	2 9 N	117 30	4	1			37	20	
SJ 02922	2.93	11W 31	3 :	2 2			75		
SJ 03795 POD1	2 9N	11W 31	3	2 4	266438	2067001	75	45	
SJ 03541	2 9N	11W 31	3 .	4 1			80	40	
SJ 00441	2 9 N	11W 32	2 :	2					
SJ 00103	2 9N	11W 32	4.	4 4			263		
SJ 00103 S	2 9N	11W 32	4.	4 4			254		
SJ 03666	2 935	118 33	2	1 2			49	20	

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T29N, R11W, S21F San Juan County, NM

Durango, CO 81302

Mines, Mills, and **Quarries Map**



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

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

General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

> bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

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



ZASIAATTO PTTY ANRICAD/Typical Designation PTT TANK despotto PTT TANK de

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.
 - 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

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

Well Nar	ne:				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 of oil (Y/N)	Any visible signs of a tank leak (Y/N)	Freeboa Est. (ft	
		1							
Notes:	Provide De	tailed Descrip	otion:						
/lisc:									

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.
- 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.
- 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 divisionapproved 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

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- 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.

