District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 2009 JAN 12	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1/220 South St. Francis Dr. Santa Fe, NM 87505	Form C-1 July 21, 2 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	Fank, or
	ternative Method Permit or Closure F	
Existing BGT Clos	nit of a pit, closed-loop system, below-grade tank, o sure of a pit, closed-loop system, below-grade tank, dification to an existing permit sure plan only submitted for an existing permitted or posed alternative method	or proposed alternative method
•	ication (Form C-144) per individual pit, closed-loop syste	em, below-grade tank or alternative request
lease be advised that approval of this request does	not relieve the operator of liability should operations result i or of its responsibility to comply with any other applicable go	in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinan
1.	OGRID #:	
	. NM 87410	
	t # 3	
	OCD Permit Number:	
	Township 28N Range 04W Co	
	rownship rounge co	
Contor of Proposed Design: Latitude 36.650	0070 Longitudo 107.234460	NAD: 1027 M 108
	070 Longitude <u>107.234460</u>	NAD: 🔲 1927 🛛 198
Center of Proposed Design: Latitude <u>36.650</u> Surface Owner: X Federal X State Private		NAD: □1927 ⊠ 198
Surface Owner: 🛛 Federal 🗌 State 🗋 Private	e 🗌 Tribal Trust or Indian Allotment	NAD: □1927 ⊠ 198
Surface Owner: 🛛 Federal 🗌 State 🗋 Private 2. Pit: Subsection F or G of 19.15.17.11 N	e 🗌 Tribal Trust or Indian Allotment	NAD: □1927 ⊠ 198
Surface Owner: X Federal A State Private 2. Pit: Subsection F or G of 19.15.17.11 NM Temporary: Drilling Workover	e 🗌 Tribal Trust or Indian Allotment	NAD: ☐1927 ⊠ 198
Surface Owner: Federal State Private 2. Pit: Subsection F or G of 19.15.17.11 NR Temporary: Drilling Workover Permanent Emergency Cavitation	Tribal Trust or Indian Allotment	
Surface Owner: X Federal I State Private 2. Pit: Subsection F or G of 19.15.17.11 NM Temporary: Drilling Workover Permanent Emergency Cavitation I Lined Unlined Liner type: Thickness	Tribal Trust or Indian Allotment	
Surface Owner: X Federal State Private 2. Pit: Subsection F or G of 19.15.17.11 NM Temporary: Drilling Workover Permanent Emergency Cavitation [Lined Unlined Liner type: Thickness String-Reinforced	e 🗌 Tribal Trust or Indian Allotment MAC] P&A smil 🗌 LLDPE 🗌 HDPE 🔲 PVC 🗋 Ot	ther
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Surface Owner: X Federal State Private 2. Pit: Subsection F or G of 19.15.17.11 NM Temporary: Drilling Workover Permanent Emergency Cavitation C Lined Unlined Liner type: Thickness String-Reinforced Liner Seams: Welded Factory Other 3. Closed-loop System: Subsection H of 19 Type of Operation: P&A Drilling a new intent) Drying Pad Above Ground Steel Tank Lined Unlined Liner type: Thickness Liner Seams: Welded Factory Other 4. Below-grade tank: Subsection I of 19.15 Volume: 95 bbl Type of Tank Construction material: Steel Secondary containment with leak detectior Visible sidewalls and liner Visible side	e Tribal Trust or Indian Allotment MAC P&A smil LLDPE HDPE PVC Ot er Volume:bbl .15.17.11 NMAC w well Workover or Drilling (Applies to activities whi s Haul-off Bins Other mil LLDPE HDPE PVC er	ther

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
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Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

7.

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

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

 Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes 🗋 No
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). 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 ⊠ NA
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

11. Temperany Dite Emergency Dite and Poley grade Tanks Dermit Application Attacht	mont Charliste Subsection B of 10.15.17.0 NMAC
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attach	
Instructions: Each of the following items must be attached to the application. Please in	dicate, by a check mark in the box, that the documents are
attached.	
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragr	
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirement	s 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.	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the a	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	
Instructions: Each of the following items must be attached to the application. Please ind	aicale, by a check mark in the box, that the abcuments are
attached.	(
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the require	
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon th	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	
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:	
above ground steel tanks or haul-off bins and propose to implement waste removal for close	ure)
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 ind	dicate, 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 requirement	
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 the	
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NM	
Liner Specifications and Compatibility Assessment - based upon the appropriate requi	
Quality Control/Quality Assurance Construction and Installation Plan	unchients of 19.19.17.11 (durite
 Quarty Control Quarty Assurance Construction and instantion that Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 	17.12 NMAC
U Operating and Maintenance Plan - based upon the appropriate requirements of 19.15	17.12 INMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirement	ATS OF 19.15.17.11 INMAC
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	7.9 NMAC and 19.15.17.13 NMAC
14.	
Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the	he 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 close	ed-loop systems)
🗌 In-place Burial 🔲 On-site Trench Burial	
Alternative Closure Method (Exceptions must be submitted)	d to the Santa Fe Environmental Bureau for consideration)
15.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instruct	
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 1	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requiremen	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cutti	
Soil Backfill and Cover Design Specifications - based upon the appropriate requirem	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.1	
Site Reclamation Plan - based upon the appropriate requirements of Subsection For F.	
She requirements of subsection of of	

16: Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St		
Instructions: Please indentify the facility or facilities for the disposal of liquids, dru facilities are required.	lling fluids and drill cuttings. Use attachment if n	nore than two
	isposal Facility Permit Number:	
	isposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occu		
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specifications based upon the appropriate regulation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	2
^{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 clo provided below. Requests regarding changes to certain siting criteria may require a considered an exception which must be submitted to the Santa Fe Environmental B demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate distr dureau office for consideration of approval. Justij	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data of	btained 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 of	btained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data of	btained from nearby wells	Yes No
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signifiake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	icant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo; Satellite ir		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less the watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (ce	ng, in existence at the time of initial application.	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water v adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval		Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual i	nspection (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	nd Mineral Division	Yes No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Society; Topographic map 	Mineral Resources; USGS; NM Geological	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 f by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate require Proof of Surface Owner Notice - based upon the appropriate requirements of Su Construction/Design Plan of Burial Trench (if applicable) based upon the appr Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad Protocols and Procedures - based upon the appropriate requirements of 19.15.1 	ements of 19.15.17.10 NMAC absection F of 19.15.17.13 NMAC opriate requirements of 19.15.17.11 NMAC) - based upon the appropriate requirements of 19.1	

Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 MMAC
 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 cannot be achieved)
 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

es, Inc.			XTO Energy		
68, 1116. 👘	Pit Permit	Project:	tank permitting		
a. CO 81302	Siting Criteria	Revised:	23-Nov-08		
Information Sheet		Prepared by:	Trevor Ycas		
	80-039-21350	USPLSS:	28N 04W 22 G		
VALENCIA	CANYON UNIT No. 003	Lat/Long:	36.650070°, -107.234460°		
1 1 1	denth < 50'		Can lines Farmation (Tai) allowing		
		formation:	San Jose Formation (Tsj), alluvium		
20.7 miles	NIM/Se Construct Divert	Cite Clevetien	mented upter death estimation is brand		
		2234m/7329'	groundwater depth estimation is based primarily on elevation of nearby springs		
3966' SE	to Valencia Canvon				
		Soil Type:	Rockland/ Aridisols		
	NO				
		Annual Precipitation:	Navajo Dam: 12.95", Governador: 11.98", Capulin Rgr Stn.: 14.98", Otis: 10.41"		
YES: ~50	0 SE to 'Horse Spring'	Precipitation Notes:	Historical daily max. precip.: 4.19" (Bloomfield)		
NO; ~1800' S	W to 'Mud Spring'(SP03620)				
14 OF 173	a a construction of the second se				
	NO	Attached Documents:	27N03W_iWaters.pdf, 27N04W_iWaters.pdf, 27N05W_iWaters.pdf, 28N03W_iWaters.pdf, 28N04W_iwaters.pdf, 28N05W_iwaters.pdf, 29N03W_iWaters.pdf, 29N04W_iWaters.pdf, 29N05W_iWaters.pdf		
	NO	FM350049IND0_30= 039-21350.jpg	30-039-21350_gEarth-PLS.jpg, 30-039-21350_topo- PLS:jpg, 30-039-21350_gEarth-iWaters.jpg		
	NO	Mining Activity:	None:Near		
			NM_NRD-MMD_MinesMillQuarries_30-039-21350.jpg		
	NO		Alternative and the second		
u	nmapped area		<u>v energi alborati e si i i i i i i i i i i i i i i i i i</u>		
	The section of the section	and the second	and the second sec		
SP03620(elev	. 2211m) both supply livestock		located on 'Vigas Mesa', between 'Dry Lake Canyon' and 'Horse Canyon', & NW of 'Valencia Canyon'		
	VALENCIA 20.7 miles at M 3966' SI YES: ~50 NO; ~1800' S NO; ~1800' S	30-039-21350 VALENCIA CANYON UNIT No. 003 depth < 50' 20.7 miles NW to 'San Juan River' at Navajo Reservoir 3966' SE to Valencia Canyon NO YES: ~500 SE to 'Horse Spring' NO; ~1800' SW to 'Mud Spring'(SP03620) NO NO	30-039-21350 USPLSS: VALENCIA CANYON UNIT No. 003 Lat/Long: .depth < 50'		

Valencia Canyon Unit #3 Below Grade Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

.

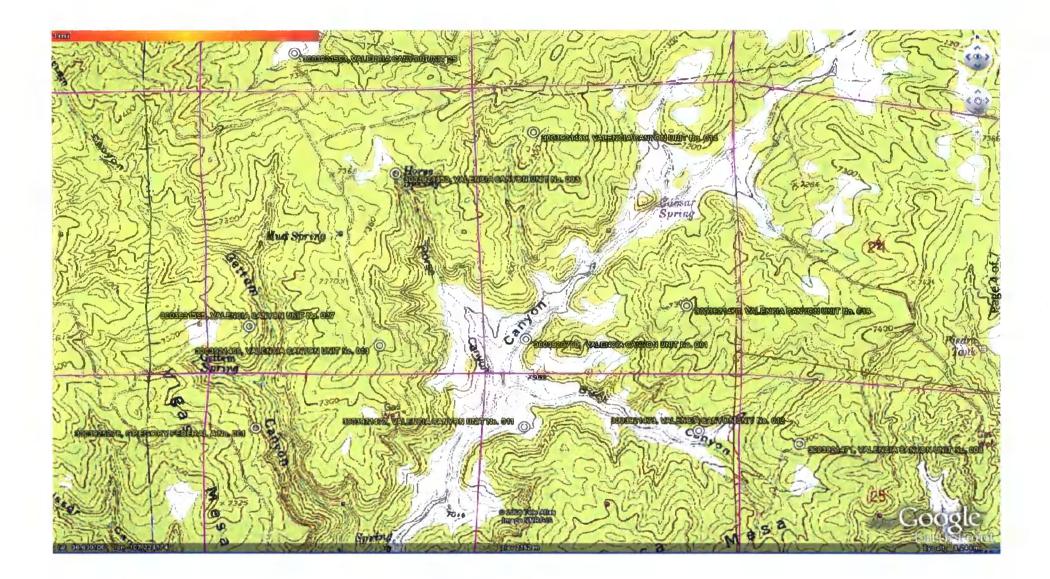
The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate surficial geology (Dane and Bachman, 1965). The proposed pit location will be located in the central Cereza Canyon region of the San Juan Basin near the upper reaches of Valencia Canyon and near Vigas & Chosa Mesas. 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 across the region of interest (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 north, toward the San Juan River. Little specific hydrogeologic data is available for the San Jose Formation system, but "numerous wells 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 exhibiting little to no 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.

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

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





Township: 28N Range: 05W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Süffix:	
Owner Name: (First) (Last) Own-Domestic ODomestic All	
POD / Surface Data Report Avg Depth to Water Report Water Column Report	

POD / SURFACE DATA REPORT 10/11/2006

(quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in Feet UTM are in Meters) Start Finish Depth Source Two Rng Sec q q q Zone DB File Nbr Use Diversion Owner POD Number х Y UTM Zone Easting Northing Date Date Well I SD 07850 SD 07851 SD 07852 SD 07850 SD 07851 SD 07852 PDL ROSA B. MARTINEZ 28N 05W 18 2 3 4 285663 4060122 3 13 ROSA B. MARTINEZ PDL 28N 05W 18 1 2 1 4060731 13 285228 3 PDL ROSA B. MARTINEZ 28N 05W 18 2 1 1 265579 4060759 13 13 8J 00036 IND 65 BURLINGTON RESOURCES OIL & GAS 8J 00036 Shallow 4056298 06/27/1953 06/27/1953 28N 05W 28 3 13 288156 303 SJ 00047 NOT 0 MAMIE MANGUM SJ 00047 Shallow 261 05W 28 13 288558 4056700 07/30/1953 08/04/1953 465 SJ 01093 STK З ROSA B. OR JUAN L. MARTINEZ SJ 01893 Shallow 28N 05W 18 4 13 285827 4059576 09/14/1984 10/12/1984 390 SJ 03806 STK 3 ROSA B. MARTINEZ 28N 05W 07 4 4 2 130509 2065482 13 286111 4061033 SJ 03806 POD1

Record Count: 7

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Township: 28N Range: 04W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Suffix:	
Owner Name: (First) (Last) Own-Domestic Obmestic All	
POD / Surface Data Report Avg Depth to Water Report Water Column Report	

POD / SURFACE DATA REPORT 10/19/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in Feet UTM are in Meters) Start Finish Depth DB File Nbr Use Diversion Owner POD Number Source Tws Rng Sec q q q Zone х Y UTM Zone Easting Northing Date Date Well 1 SJ 00045 IND-0 U.S. GOVERNMENT 8J 00045 Shallow 28N 04W 07 295235 4061453 09/04/1952 09/10/1952 600 SJ 02365 STK CARSON NATIONAL FOREST SJ 02385 SP 03616 28N 04W 26 1 1 1 300818 160 Shallow 13 40570€4 SP 03618 STK 1.88 UNITED STATES OF AMERICA 28N 04W 09 3 1 13 297632 4061209 4057416 8P 03619 SP 03619 298924 STK 0.36 UNITED STATES OF AMERICA 28N 04W 21 4 4 13 8P 03620 STK 0.36 UNITED STATES OF AMERICA SP 03620 26N 04W 22 1 4 13 299736 4058240 SP 03621 STK 0.58 UNITED STATES OF AMERICA 8P 03621 28N 04W 29 2 2 13 297324 4057019 SP 03622 STK 0.36 UNITED STATES OF AMERICA SP 03622 28N 04W 33 2 4 13 298821 4054927 SP 03808 SP 03809 SP 03811 SP 03808 CARSON NATIONAL FOREST 28N 04W 17 3 1 13 STK 1.67 296199 4059551 SP 03809 STK 1.67 CARSON NATIONAL FOREST 28N 04W 17 4 4 13 297378 4059116 SP 03811 STK 1.67 CARSON NATIONAL FOREST 28N 04W 14 1 1 1.3 300944 4060310 8P 03972 STK 0 CARSON NATIONAL FOREST SP 03972 20N 04W 36 3 3 13 302344 4053996 SP 04028 STK 0.85 CARSON NATIONAL FOREST 8P 04028 28N 04W 32 2 4 13 297271 4054953

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Township: 28N Range: 03W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Suffix:	
Owner Name: (First) (Last) Own-Domestic Omestic All	
POD / Surface Data Report Avg Depth to Water Report Water Column Report	
Clear Form WATERS Menu Help	

			(quarters are 1	-NW 2=NE 3=SW 4=SE)						
	(acre ft per annum)		(quarters are b	iggest to smallest	X Y are in Feet		UTM are in Meters)	Start	Finish	Depth
DB File Nbr	Use Diversion Owner	POD Number	Source T	we Rng Sec q q q	Zone X	¥	UTM_Zone Easting Northing	Date	Date	Well 1

No Records found, try again

Township: 27N Range: 05W Sections:
NAD27 X: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) Ownerstic Obmestic All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

(quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in Feet UTM are in Meters) Start Finish Depth DB File Nbr POD Number Source Tws Rng Sec q q q Zone X Shallow 27N 05W 27 4 4 3 Ŷ UTM_Zone Easting Northing Date Date Well I Use Diversion Owner RG 81026 SJ 00046 13 290530 4046294 09/12/2003 09/16/2003 460 STK IND Shallow 27N 05W 04 4 4 13 289133 4052788 01/13/1954 01/13/1954 506 Artesian 27N 05W 03 2 1 290409 4053971 05/02/1967 1640 13 8J 00199 OFM

Township:	P9N Range: 05W	Sections:	· · · ·
NAD27 X:	Y:	Zone:	Search Radius:
County:	Basin:		Number: Suffix:
Owner Name: (First)	(Last)		─ ○Non-Domestic ○Domestic ●All
POD / Surfa	ce Data Report Avg	Depth to Water F	Report Water Column Report

WATER COLUMN REPORT 08/12/2008

	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)								Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	PI	Zone	x	Y	Well	Water	Column	
SJ 02339	29N	05.W	29	3 3	3 3				350	108	242	
SJ 00422	29N	05W	31	2					239	135	104	
SJ 00056	29N	05W	31	2 3	3 1				142	50	92	
SJ 00057	2.9N	05W	31	2 3	3 1				158	57	101	
SJ 03208	29N	05W	31	3 3	3 3				220	160	60	
SJ 02383	29N	05W	32	1 1	. 1				300	100	200	

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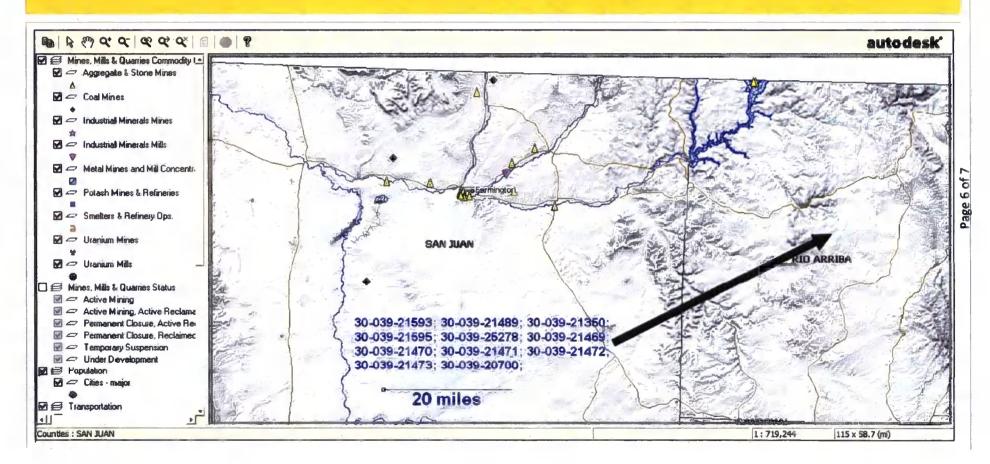
Townshi	29N Range: 03W	Sections:		
NAD27 X	Y:	Zone:	Search Radius:	
County:	Basin:	Num	iber: Suffix:	
Owner Name: (First)	(Last		Non-Domestic ODo	mestic All
POD / S	urface Data Report Avg	Depth to Water Report	Water Column Report	1

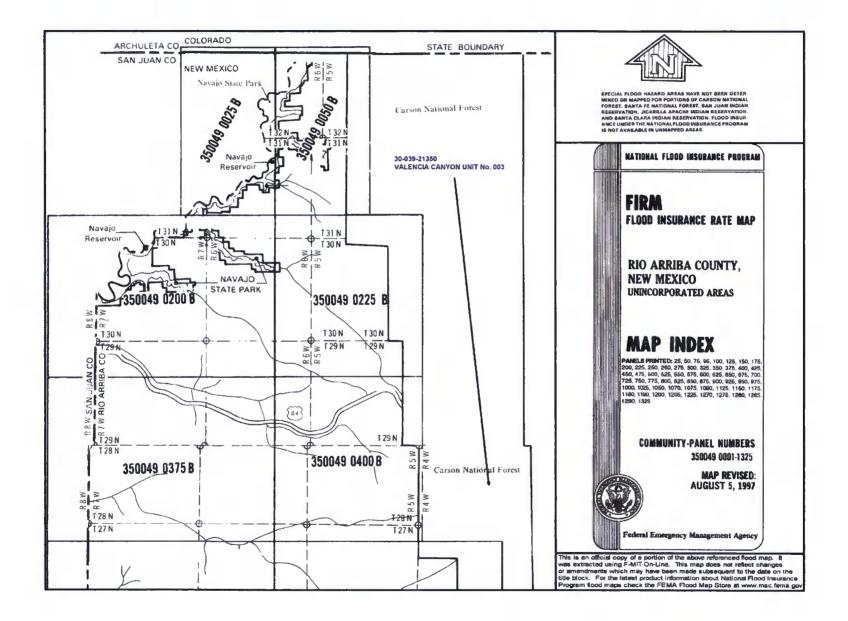
WATER COLUMN REPORT 08/12/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)							Depth	Depth	Water	(in feet)
POD Number		Rng Sec		Zone	х	Y	Well	Water	Column	
SJ 01575	29N	03W 08	442				306			



Mines, Mills and Quarries Web Map





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

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

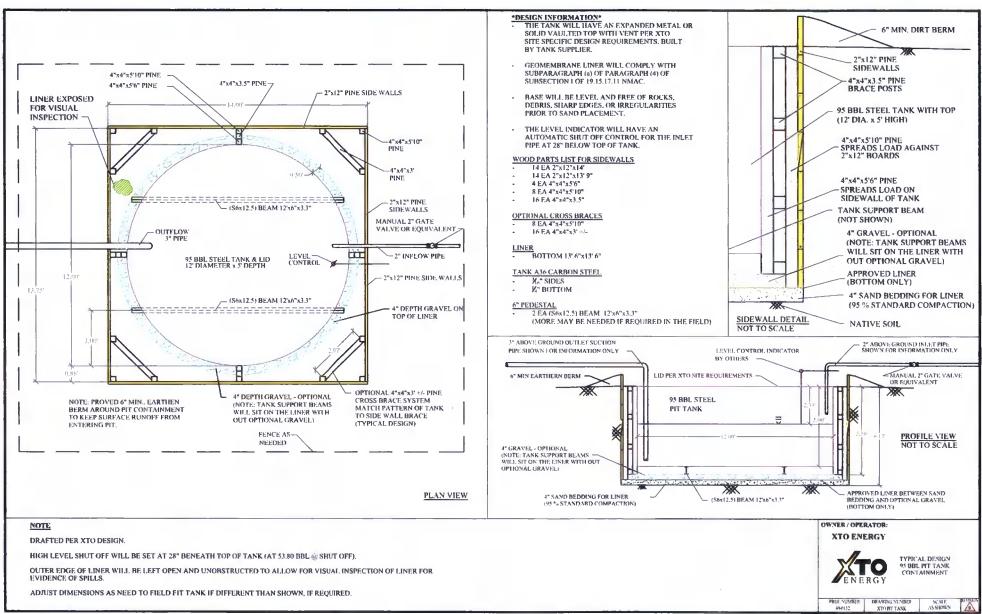
General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and 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.
- 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.



2: SiteXTO_PITTANK CAD-Typical Dengts STO PIT TANK/dwg ATO PIT TANK/dw

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

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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 Name:				API No.:					
-egals			Township:						
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	
							-		
	_								
Notes:	Provide De	tailed Descrip	otion:	. <u></u>				·	
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/lisc:									
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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

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- 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

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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.