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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

District Office
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Existing BGT
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator XTO Energy, Inc. Address 382 Road 3100 Aztec, NM 87410
Facility or well name BELL FEDERAL 12 #2
API Number
U/L or Qtr/Qtr Section 12 Township 30N Range 13W County San Juan
Center of Proposed Design Latitude 36.83030 Longitude 108.16225 NAD 1927 1983 Surface Owner, Federal State Private Tribal Trust or Indian Allotment
2
Pit: Subsection F or G of 19 15 17 11 NMAC
Temporary Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams.
Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other
4
X Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume: 120 bbl Type of fluid. Produced Water Tank Construction material Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Visible sidewalls wanted automatic high level shut off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☑ Other Visible sidewalls, vaulted, automatic high level shut off Liner type Thicknessmil ☐ HDPE ☐ PVC ☐ Other
5 Alternative Method:

Submittal of an exception request is required

Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	hospital,
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19 15 17 11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19 15 3 103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s). Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19 15 17 10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 fect below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	☐ Yes 🖾 No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits)	☐ Yes ☐ No ☑ NA
 Visual inspection (certification) of the proposed site, Aerial photo, Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site 	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☒ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes 🖾 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map	☐ Yes ☒ No
Within a 100-year floodplain - FEMA map	☐ Yes 🛭 No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17 12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API Number or Permit Number
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15.17 11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API Number.
Previously Approved Operating and Maintenance Plan API Number (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Nuisance of Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Proposed Closure: 19 15 17 13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type Dulling 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
<u>Waste Excavation and Removal Closure Plan Checklist</u> : (19.15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
 ✓ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ✓ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17 13 NMAC
☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
 ✓ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15 17 13 NMAC ✓ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluid facilities are required.		
1	acılıty Permit Number	
	acility Permit Number	
Will any of the proposed closed-loop system operations and associated activities occur on or in Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate requirement Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19	7 13 NMAC	С
Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan provided below. Requests regarding changes to certain siting criteria may require administrations considered an exception which must be submitted to the Santa Fe Environmental Bureau off demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance	ative approval from the appropriate dist fice for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - IWATERS database search, USGS, Data obtained fr	rom 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 fr	rom 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 fr	rom nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant water lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	ercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	e at the time of initial application	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five h watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in exi NM Office of the State Engineer - IWATERS database, Visual inspection (certification)	stence at the time of initial application	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained in	·	☐ 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 Minera	al Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Society, Topographic map	Resources, USGS, NM Geological	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate re Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 NM. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 1 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19	f 19.15.17.10 NMAC F of 19.15 17 13 NMAC equirements of 19 15.17 11 NMAC upon the appropriate requirements of 19 AC f Subsection F of 19 15 17.13 NMAC F of 19 15 17 13 NMAC or in case on-site closure standards cann 17 13 NMAC 7 13 NMAC	15 17 11 NMAC

Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief
Name (Print) Kim Champlin Title Environmental Representative
Signature Bim Champlin Date 9-17-08
e-mail address kim_champlin@xtoenergy com Telephone (505) 333-3100
20
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 3/9/2012_
Title: Complance Office OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
Closure Completion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD. 1927 1983
25 Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
Name (Print) Title
Signature: Date
e-mail address Telephone

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

Certificate Number

DISTRICT II P.O. Drawer DD, Arlesia, N.M. 88211-0719

DISTRICT III

OIL CONSERVATION DIVISION

1000 Rio Brazos i DISTRICT IV PO Box 2088, Sar					Se		Box NM 8	2088 7504-2088	i			[AMEN	IDED REPORT
			VELL	LC	CATIO	N AND) A(CREAGE	DEDI	CATION	l Pl	_AT		
¹ API	Number			2	Post Code					* Po	i Nami	5		
⁴ Property Ca	ode		⁹ Property Name						* Wail Number				i	
			······································		······································			ERAL 12						# 2
7 OGRID No								Name BY INC.					•	Elevation 5787
						¹⁰ Sur	face	Location						
UL or lot no.	Section 12	Township 30-N	Range 13-W		Lot Idn	Feet from 1615		North/South NORT		Feet from 900		East/We WE	st line ST	County SAN JUAN
	- 	···	11 Bot	ttor	n Hole	Locat	on I	f Differe	nt Fro	m Surf	ace			
UL or lot no.	Section	Township	Range	T	Lot Idn	Feet from	the	North/Sout	h line	Feet from	the	East/Wa	est line	County
12 Dedicated Acre	8	19 Je	oint or in	fill		14 Consolid	ation C	ode	····	18 Order No	٠.	<u> </u>	····	J
NO ALLOV	WABLE							ON UNTIL					EEN C	ONSOLIDATED
SEC CORNER	S 89-	4-56 E		=	OTR. COS	INFR				 1				
FD 3 1/4" BC 1952 BLM	2657	'.50 '			FD 3 1/4" BC 1952 BLM					17				RTIFICATION tolined herein is
	15									true	and comp	olete to the b	est of my kn	owledge and belief
≯	161													
2608.30	((1					ļ				
-31. 608.														
	-1 1				 					_				
900'	129'													
LAT. 36'49		LAT. 36'49'4	9'49" N. (NAD 83 8'09'44" W (NAD			83) AD 83)				Sign	ature			
		LONG. 1080	19 44 Y	4 (h	HAD 83)					Prin	ted Na	me	·············	
	"									THE				
OTB CORNER				- 1	2 —					- Dal	•			
OTR. CORNER FD 3 1/4" BC 1952 BLM					i					18	S	URVEYO	R CER	TIFICATION
1002 004					1					l hen	by cert	ify that the	well location	n shown on this plat
					•					or ur	der my	supervision,	and that t	i surveys made by me he same is true and
					'\'					corre	at to the	best of m	y count.	Y) 3
		de Park to	الم المون	é.				,		Dat	of Su	ME NEW	WE Y'C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
										Sig	on SECIS	(14	Professional 827	Envelor:
											T	NOF E		—
					1							_	827	1

李颜, 如一样。 XTO ENERGY INC. BELL FEDERAL No. 2, 1615 FNL 900 FWL SECTION 12, T30N, R13W, N.M.P.M., SAN JUAN COUNTY, N. M. LAT. = 36'49'49" N LONG. = 108'09'44" **GROUND ELEVATION: 5787.** (NAD 83) DATE: FEBRUARY 3, 2003 CONSTRUCTION ZONE 6 C 1.4 (5) A Q В PIT F 0.3 0.7 65 15 \$ <u></u> 4 LAYDOWN S 39'39' W ന 15 Wellhead to Back C 0.2 Wellhead to Front 0.9 95 C 0.0 REAR' 95 **ABANDONED** DEHY side 8 2 00 head В' **EXISTING ACCESS** C 0.6 F 0.0 C 0.4d C' $\circ \Box \circ$ (3) 140' X 190' 2 METER RUN $(240' \times 290') = 1.60 \text{ ACRES}$ RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT. DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: ELEV. A-A' C/ 5800 5790 5780 5770 C/L ELEV. B-B 5800 5790 5780 Surveying and Oil Field Services
O. Box 15068 Farmington, NM 87401
(505) 326-1772 Fox (505) 326-6019 5770 Daggett Enterprises, Inc. 1 3 A Ġ ELEV. C-C' C/L 5800

NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

DRAWN BY: A.G. ROW#: CR169

5790

5780

5770

CADFILE: CR169CF8

DATE:2/12/03

P. O. Box Phone (505)

Lodestar Services, Inc. PO Box 4465, Durango, CO 81302

Pit Permit Siting Criteria nformation Sheet

Client:	XTO Energy	
Project:	Pit Permits	
Revised:	25-Aug-08	
repared by:	Brooke Herb	

PU Box 4465, Durango, CU 81302		~	Revisea:	<u> </u>			
		Information Shee	Prepared by:				
API#:	30	04531679	USPLSS:	T30N, R13W, S12E			
Name:	Bell F	ederal 12-2	Lat/Long:	36.8303/-108.16225			
Depth to groundwater:	50	0-100'	Geologic formation:	Nacımiento Formation			
Distance to closest continuously flowing watercourse:	3.35 Miles to	La Plata River; 4.62 O Animas River					
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	380 feet to	Farmington Glade					
			Soil Type:	Entisols			
Permanent residence, school, hospital, institution or church within 300'		No					
			Annual Precipitation:	8.21 in Average			
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	No significant precip event			
Any other fresh water well or spring within 1000'		No	~ .				
Within incorporated municipal boundaries		No	Attached Documents:	Groundwater Map and data, FEMA Flood Zone Map			
Within defined municipal fresh water well field		No		Aerial Photo, Topo Map, Mines Mills and Quarries Map			
Wetland within 500'		No	Mining Activity:	2.05 Miles to Kannard Richard Pit			
Within unstable area		No	,				
Within 100 year flood plain		No					
Additional Notes:							

Bell Federal 12 #2 Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T30N, R13W, Section 12, Quarter Section E Latitude/Longitude: approximately 36.8303, -108.16225

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

General Geology and Hydrology

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

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

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

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

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

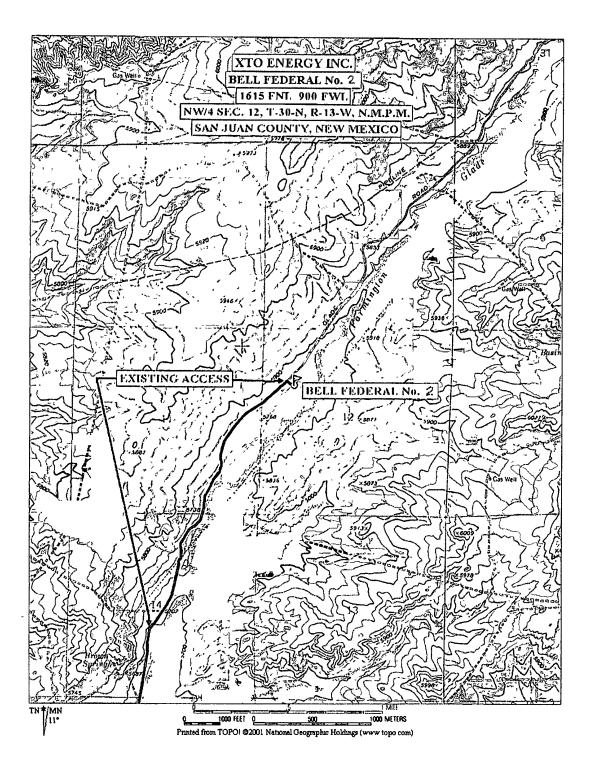
Site Specific Hydrogeology

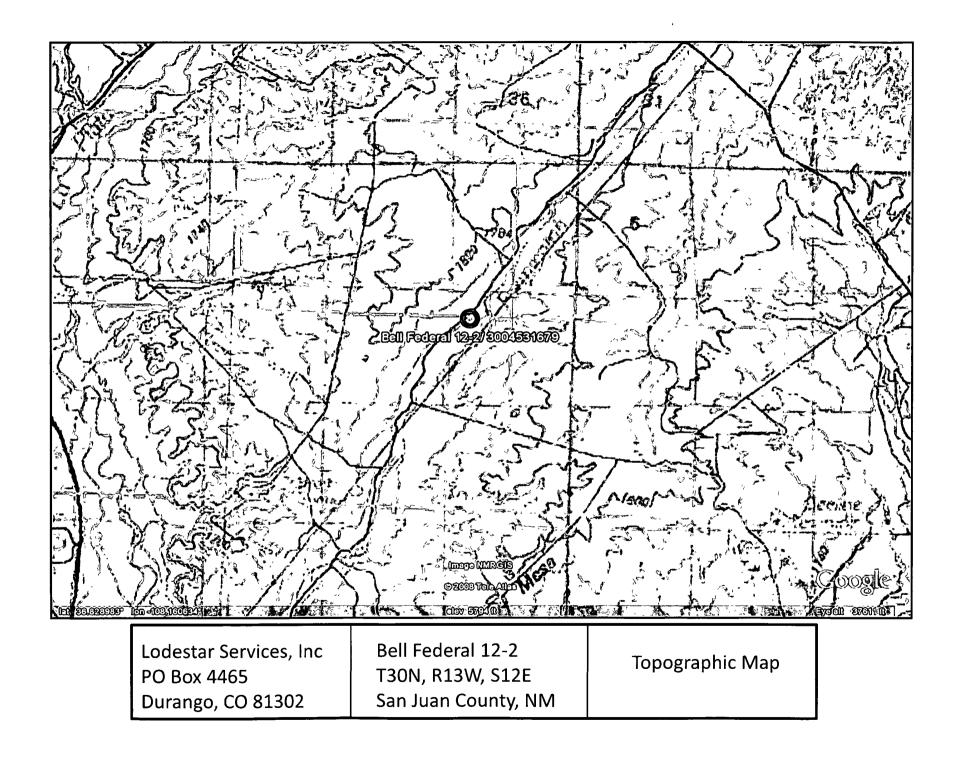
Depth to groundwater is estimated to be between 50 and 100 feet. This estimation is based on data from Stone and others, 1983 and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

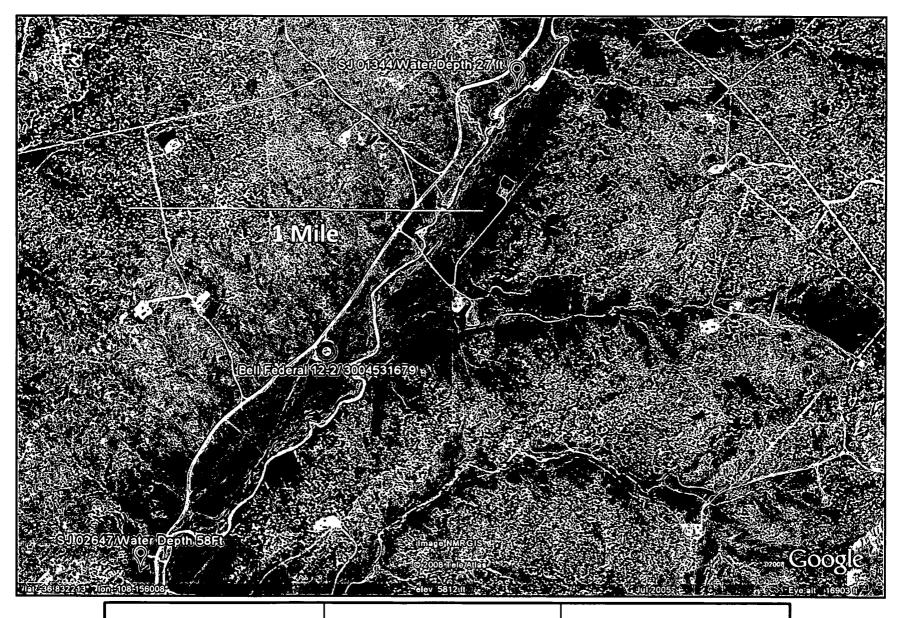
Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. It is well known that groundwater close to the Farmington Glade can be shallow, as the Quaternary deposits near the wash itself form shallow aquifers. However, it is also well known that depth to groundwater near the Glade can be variable. The site in question located 380 feet to the west of the wash and is about 5 feet higher in elevation then the center of the wash (Google Earth).

A site visit by a technician with a long history in the San Juan Basin, as well as historical knowledge of groundwater wells located nearby indicate groundwater is greater than 50 feet deep at the site.

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. There are two wells that are located near the Glade Wash. A well to the north of the proposed site has a depth to groundwater of 27 feet below the ground surface. The well is 45 feet higher in elevation then the proposed site. A well to the southwest of the site has a depth to groundwater of 58 feet below the ground surface, and is approximately 35 feet lower in elevation.







Lodestar Services, Inc PO Box 4465 Durango, CO 81302 Bell Federal 12-2 T30N, R13W, S12E San Juan County, NM

iWaters Groundwater Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range: 13V Sections: 11

POD / Surface Data ReportAvg Depth to Water ReportWater Column Report

WATER COLUMN REPORT 09/09/2008

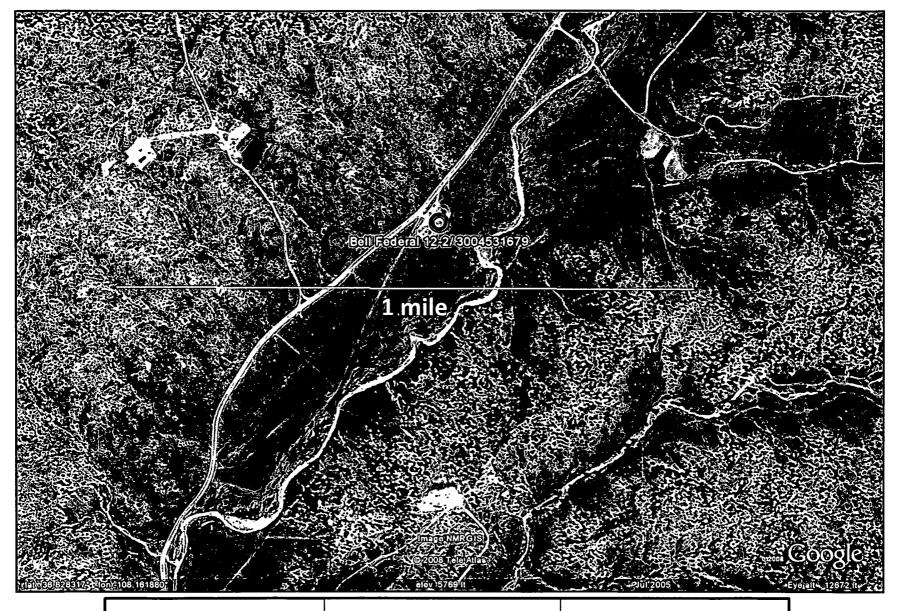
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Two Rng Sec q q q Zone X Y Well Water Column
30N 13W 11 4 3 4 76 58 18

Record Count: 1

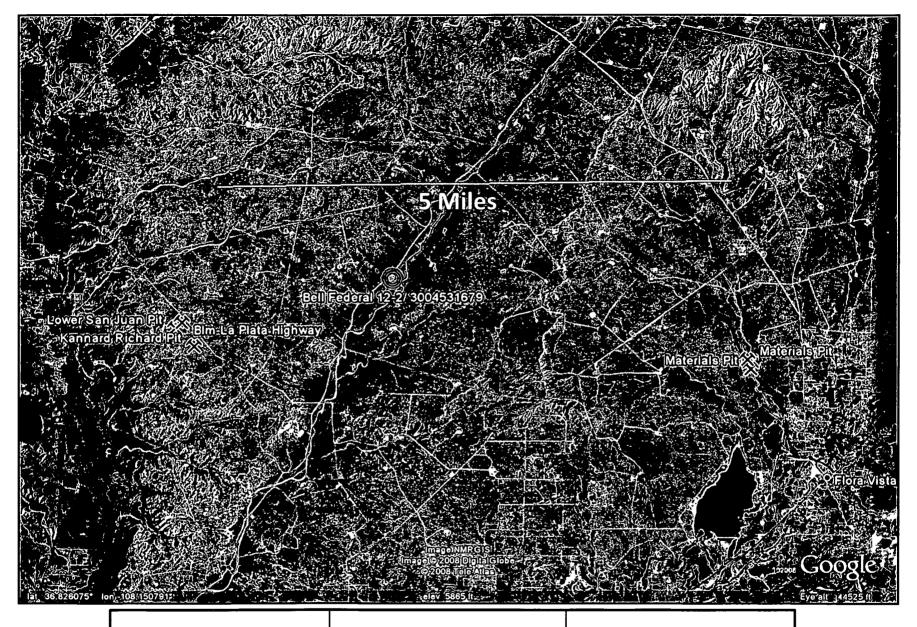
POD Number

SJ 02647



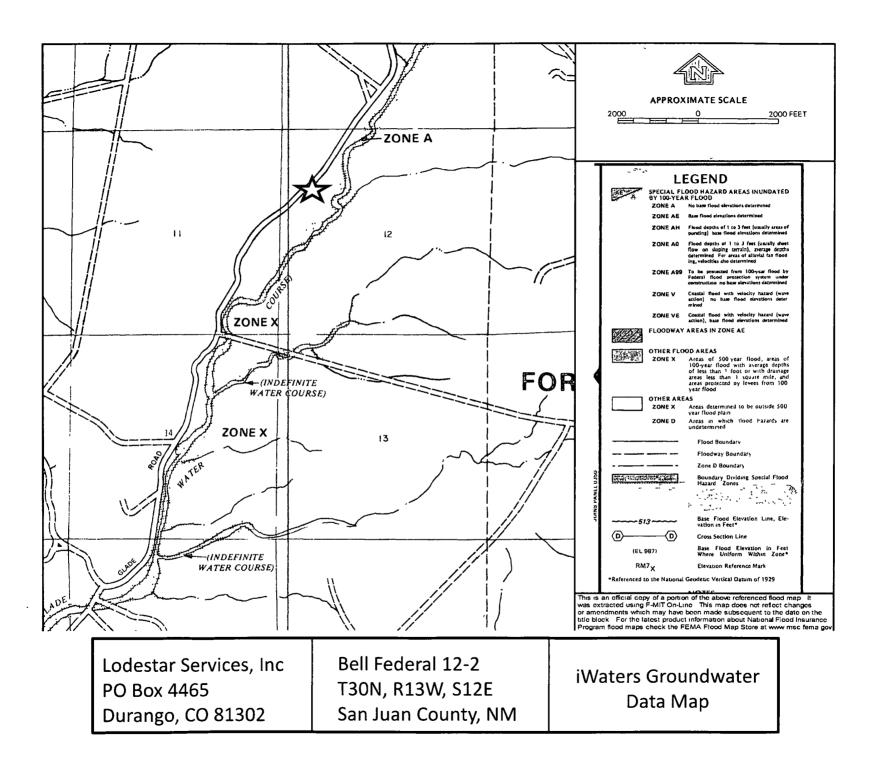
Lodestar Services, Inc PO Box 4465 Durango, CO 81302 Bell Federal 12-2 T30N, R13W, S12E San Juan County, NM

Aerial Photograph



Lodestar Services, Inc PO Box 4465 Durango, CO 81302 Bell Federal 12-2 T30N, R13W, S12E San Juan County, NM

Mines, Mills, and Quarries Map



XTO Energy Inc. San Juan Basin Below Grade Tank Design and Construction Plan

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 (BGT) which does not conform to this plan.

General Plan

- I XTO will design and construct a BGT to contain liquids and solids and prevent contamination of fresh water and protect public heath and environment
- Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3 XTO will post a well sign, in compliance with 19.15 3.103 NMAC, on the well site prior to construction of the BGT. 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.
- 4 XTO shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with two strands of barbed wire on top, or with a pipe top rail. A 6' chain link fence topped with three stands of barbed wire will be used if the well location is within 1000' of a permanent residence, school, hospital, institution or church
- 5 XTO shall construct an expanded metal covering on top of the BGT
- 6. XTO will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight
- The BGT 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
- 8 XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on
- 9 XTO will construct and use BGT that does not have double walls. The BGT sidewalls will be open for visual inspection for leaks, the BGT bottom will be elevated a minimum of 6" above the underlying ground surface and the BGT will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 10 XTO will equip BGT's designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows
- The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity greater that 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 acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.
- The general specifications for design and construction are attached

XTO Energy Inc. San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17.11 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 (BGT) which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and the environment
- 2 XTO will not allow a BGT to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the BGT.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of a BGT in order to prevent significant accumulation of oil.
- 4. XTO will inspect the BGT monthly and maintain written records for five years
- 5. XTO will maintain adequate freeboard to prevent over topping of the BGT

XTO Energy Inc. San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19 15 17 11 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 (BGT) which does not conform to this plan

General Plan

- XTO will close a BGT within the time periods provided in 1915 1713 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment
- 2 XTO will close an existing BGT 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 BGT within 60 days of cessation of the BGT'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 a BGT prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility
- 5 XTO will remove the BGT and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- ATO will remove any on-site equipment associated with a BGT unless the equipment is required for some other purpose
- XTO will test the solids beneath the BGT 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 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
- 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.
- 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 will be given to the Aztec Division District III office between 72 hours and one week of closure via email or verbally. The notification will include the following:
 - 1. Operator's name
 - Location by Unit Letter, Section, Township, and Range Well name and API

- All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the BGT. Closure report will be filed on form C-144 and incorporate the following.
 - Details on capping and covering, where applicable
 - ii. Inspection reports
 - iii Sampling results
- 12. 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.
- XTO will seed the disturbed areas the first growing season after the operator closes the pit Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods—BLM or Forest Service stipulated seed mixes will be used on federal lands Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons—Repeat seeding or planting will be continued until successful vegetative growth occurs
- A minimum of 4' of cover shall be achieved and the cover shall include 1' of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater
- The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested