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

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

Pit, Closed-Loop System, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan Application	<u>l</u>
Type of action:    Permit of a pit, closed-loop system, below-grade tank, or proposed alternative   Closure of a pit, closed-loop system, below-grade tank, or proposed alternative   Modification to an existing permit   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method	e method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or	alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water invironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rul	
Operator XTO Energy, Inc.  Address. 382 Road 3100 Aztee, NM 87410	
Facility or well name BELL FEDERAL GAS COM A #1	
API Number	<u> </u>
U/L or Qtr/Qtr Section 12 Township 30N Range 13W County Section Proposed Design: Latitude 36.83195 Longitude 108.15508 Norface Owner, Federal State Private Tribal Trust or Indian Allotment	in Juan NAD □1927 □ 1983
Pit:       Subsection F or G of 19 15 17 11 NMAC         Temporary       □ Drilling       □ Workover         □ Permanent       □ Emergency       □ Cavitation       □ P&A         □ Lined       □ Unlined       Liner type:       Thickness      mil       □ LLDPE       □ HDPE       □ PVC       □ Other         □ String-Reinforced       Liner Seams:       □ Welded       □ Factory       □ Other	
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 approva	al of a permit or notice of
Intent)  Drying Pad	RECEIVED 2
Mark Construction material   Subsection   of 19 15 17 11 NMAC   Steel	OIL CONS. DIV. DIST. 3
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	OVE
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☑ Other Visible sidewalls, vaulted, automatic high le  Liner type Thicknessmil ☐ HDPE ☐ PVC ☐ Other	vel shut off
5	
Alternative Method:	unsideration of
Submittal of an exception request is required  Exceptions must be submitted to the Santa Fe Environmental Bureau office for co	distueration 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 dry above-grade tanks associated with a closed-loop system.	ppriate district approval.
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

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.
<ul> <li></li></ul>
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)
above ground steet tanks or natiti-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   Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> 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
<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)
Waste Excavation and Removal Closure Plan Checklist: (19.15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17 13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection 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 or Haul-off Bins Only: (19 15 17 13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	
Disposal Facility Name       Disposal Facility Permit Number	
Disposal Facility Name Disposal Facility Permit Number	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser	
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 requirements of Subsection H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC	.C
Siting Criteria (regarding on-site closure methods only): 19 15 17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distributed 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.	trict office or may be
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	Yes No
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
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19  Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC	15 17 11 NMAC

Operator Application Certification:				
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief				
Name (Print) Kim Champlin Title Environmental Representative				
Signature <u>Him Wamplin</u> 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: 3/19/2012_				
Title: Complique Office O 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 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 ttems 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)				
<ul> <li>☐ Waste Material Sampling Analytical Results (required for on-site closure)</li> <li>☐ Disposal Facility Name and Permit Number</li> </ul>				
Soil Backfilling and Cover Installation				
Re-vegetation Application Rates and Seeding Technique				
Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD				
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.				

Acres 10

TALEARY 23, 1964

н -	PAN AFLEI	IOAN PET	ŖŲĽin	' CORPC	00.47100	•	SELL	FUDERAL INS UNIT "A"	
.1 •,	1	11 ca .e	3	, ·	12		,	30 No. 35. 13ST	C4 24
المراج الر	990	i - Fr	the	HT MO!!	•	7310		the EAST	1 11
5. v	SAL JUAN	Ī	· · ·	, ,	RELORI	LATER		. <b>32</b> ∪	4
Same for water their Distance						LASIN DAMYIN			
1.4	0 - 2 - 2 - 2 - 2								

Communitization a reemeaco being circulates for dignature.

KXXXX

EXXXXXXXXXXX

JAN 2 7 1964

The 8/2 of the 1/2 of Section 12 is held jointly by Delhi-Jaylor, San Jacinto Petroleum and Sincilir, all of when have advised that they will join in the wrilling of the well.

PAN AMERICAN PERDLE M OR?.

F. E. Lollingsworth

2. O. Fox 480

Farmington, New Mexico

LATIN THE RESERVE TO THE RESERVE TO

12 November 1943

daties i. Leese. I. Par. heg. no. 1463

#### XTO Energy **Client:** Pit Permit Lodestar Services, Inc. Project: Pit Permits **Siting Criteria** Revised: 26-Aug-08 O Box 4465, Durango, CO 81302 **Information Sheet** Prepared by: **Brooke Herb** API#: 3004509768 USPLSS: T30N,R13W,S12B Bell Federal Gas Com A-1 Lat/Long: Name: 36.83195/-108.15508 Geologic 50- 100 feet Depth to groundwater: **Nacimiento Formation** formation: Distance to closest 3.6 miles to La Plata River; 4.4 continuously flowing miles to Animas River watercourse: Distance to closest significant watercourse, 1370 ft to Farmington Glade lakebed, playa lake, or sinkhole: Soil Type: **Entisols** Permanent residence. school, hospital, No institution or church within 300' **Annual** 8.21 inches average Precipitation: Domestic fresh water Precipitation well or spring within No no significant precip events **Notes**: 500 Any other fresh water well or spring within No 1000 Within incorporated **Attached** No Groundwater Map and data, FEMA Flood Zone Map municipal boundaries **Documents:** Within defined municipal fresh water No Aerial Photo, Topo Map, Mines Mills and Quarries Map well field Wetland within 500' **Mining Activity:** 2.4 miles to Kannard Richard Pit No Within unstable area No Within 100 year flood No plain **Additional Notes:** Low groundwater level is due to shallow aquifer in Quaternary

deposits near the bottom of the Glade

### Bell Federal Gas Com A #1 Below Ground Tank Siting Criteria and Closure Plan

### **Well Site Location**

Legals: T30N, R13W, Section 12, Quarter Section B Latitude/Longitude: approximately 36.83195, -108.15508

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).

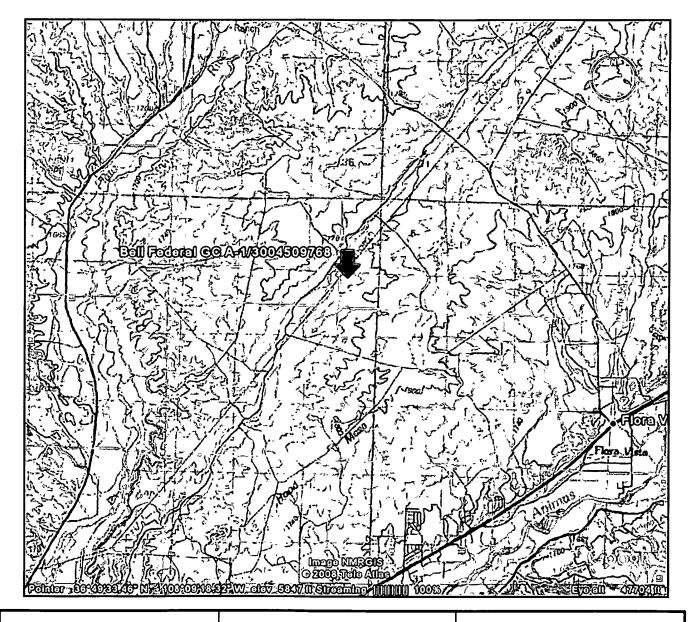
### Site Specific Hydrogeology

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. The site in question located 1360 feet to the east of the wash and is about 20 feet higher in elevation then the center of the wash (Google Earth).

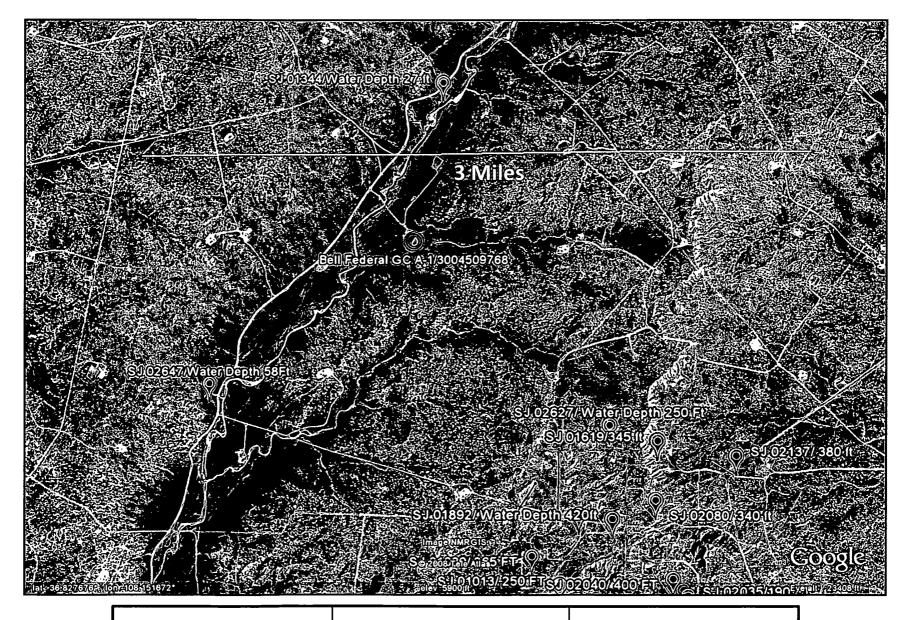
Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet.

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 15 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 65 feet lower in elevation. There is a cluster of wells to the southeast that have a depth to groundwater range from 250 to 420 feet below the ground surface. However, these wells are all at least 100 feet higher in elevation then the proposed site.



Bell Federal GC A-1 T30N, R13W, S12B San Juan County, NM

Topographic Map



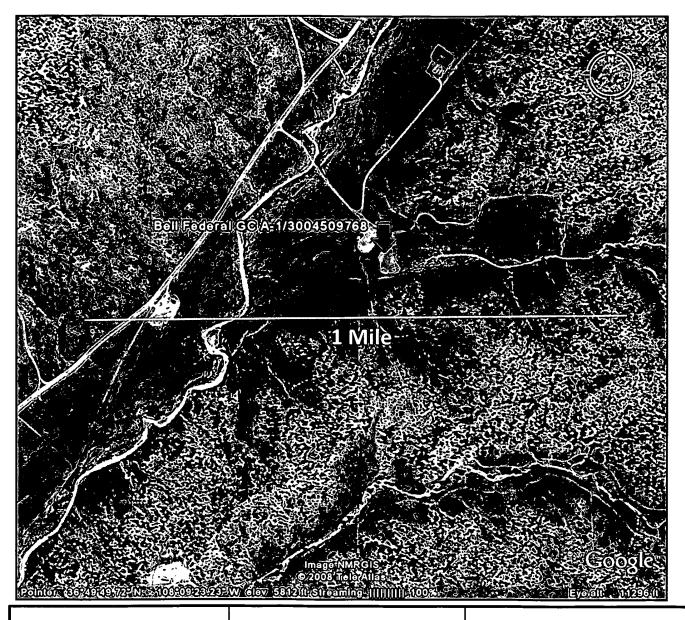
Bell Federal GC A-1 T30N, R13W, S12B San Juan County, NM

iWaters Groundwater Data Map

### New Mexico Office of the State Engineer POD Reports and Downloads

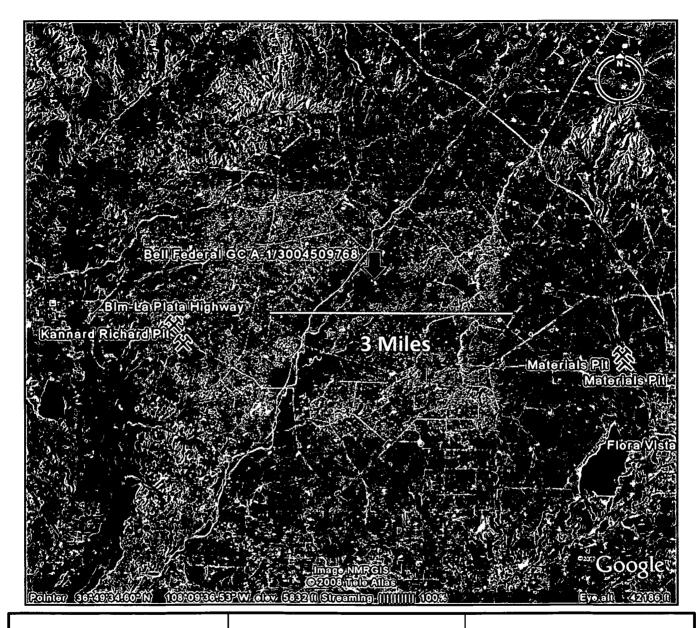
	Township: 30N Range: 13N Sections	_ 11			
	NAD27 X: Y: Zone:	Search Radius:			
	County: Basin:	Number: Suffix:			
	Owner Name: (First) (Last)	Non-Domestic C Domestic C All			
	POD / Surface Data ReportAvg Depth to Wa	ater ReportWater Column Report			
WATER COLUMN REPORT 08/25/2008  (quarters are 1=NW 2=NE 3=SW 4=SE)					
POD Number SJ 02647	(quarters are biggest to smallest)  Tws Rng Sec q q q Zone X  30N 13W 11 4 3 4	Depth Depth Water (in feet) Y Well Water Column 76 58 18			

Record Count: 1



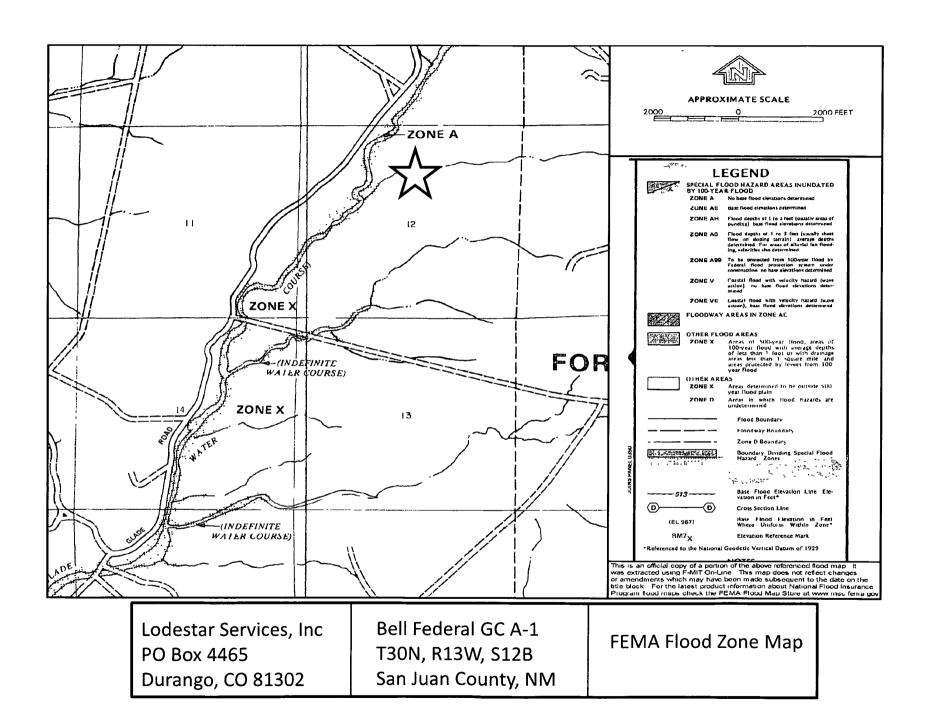
Bell Federal GC A-1 T30N, R13W, S12B San Juan County, NM

Aerial Photograph



Bell Federal GC A-1 T30N, R13W, S12B 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**

- 1 XTO will design and construct a BGT to contain liquids and solids and prevent contamination of fresh water and protect public heath and environment
- 2. 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.
- KTO will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight
- 7. 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 beim 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 1915 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

- 1. XTO will close a BGT 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 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
- KTO will remove any on-site equipment associated with a BGT unless the equipment is required for some other purpose
- 7. 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.
  - Operator's name
  - ii Location by Unit Letter, Section, Township, and Range. Well name and API number.

- 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.
  - 1. Details on capping and covering, where applicable
  - II Inspection reports
  - III Sampling results
- 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