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.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Existing BGT Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method 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
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
lease 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 avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
I.
Operator:XTO Energy, IncOGRID #:5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Bolack C LS # 16
API Number: 30-045-06176 OCD Permit Number:
U/L or Qtr/Qtr A Section 33 Township 27N Range 08W County: San Juan
Center of Proposed Design: Latitude36.534820
Surface Owner: X Federal X State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4.
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 _ <u>Visible sidewalls</u> , vaulted, automatic high-level shut off, no liner
Liner type: Thicknessmil
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.

6.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top	
☐ Monthly inspections (If netting or screening is not physically feasible)	
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 appropriate of the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval. ing pads or
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - 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.
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 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)
13.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 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 Erosion Control Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Use Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if							
facilities are required. Disposal Facility Name: Disposal Facility Permit Number:							
Disposal Facility Name: Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that 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	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. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	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 from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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 obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No						
Within a 100-year floodplain FEMA map	☐ Yes ☐ No						
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, 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 19.15.17.13 NMAC 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 cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

19.		
Operator Application Certification:		
I hereby certify that the information submitted with this application is tr	ue, accurate and complete to	the best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
A A:	Title.	Environmental representative
Signature: Kin Champlin	Date:	01/02/2009
,	Telephone:	(505) 333-3100
OCD Approval: Permit Application (including closure plan)	Closure Plan (only) 🔲 OCI	Conditions (see attachment)
OCD Representative Signature:		Approval Data
OCD Representative Signature.		Approvai Date.
Title:	OCD Permit Nun	nber:
21.		
Closure Report (required within 60 days of closure completion): Su Instructions: Operators are required to obtain an approved closure plat The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained a	an prior to implementing any days of the completion of the	closure activities and submitting the closure report. e closure activities. Please do not complete this
	☐ Closure Con	npletion Date:
22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method	d
23. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liq two facilities were utilized.	Systems That Utilize Above uids, drilling fluids and drill	e Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility I	Permit Number:
Disposal Facility Name:		Permit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)		t be used for future service and operations?
Required for impacted areas which will not be used for future service an Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:	
Closure Report Attachment Checklist: Instructions: Each of the followark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	closure)	NAD: 1927 1983
25.	*	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	closure report is true, accurate requirements and conditions	te and complete to the best of my knowledge and specified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

Well Longton and Arrest Deligar at Cop-

Science A

Date JANUARY 31, 1958

Орегания	EL PASO NATURAL	GAS COMPANY	BOLACK	SF 079232	
	16-C Unit Letter	A Section	33 Township	27 N Riskey 8 N N	PM
for arms	910 Feet From	NORTH Lene	900 :	EA OF	:11:
	SAN JUAN G.		41 Desileares	A resign 320 Vi	;
Nation of I	froducing Formation . KSA	VERDE		VCO EXT. NV -	

- 1. I the Operator the only owner in the definate rains age our their entire right and will
- 2. If the answer to question one is "no", have the interests of all the sener more originate from a combination agreement or otherwise? Yes No. . If mover is "type", Type of Consellation,

3. If the answer to question two is "not", list ditime experient their is to the appearance in law.

RECEIVED Lasi Dessitiston 1958 MN5 U. S. GEOLOGICA FARMINGTO

Section B.

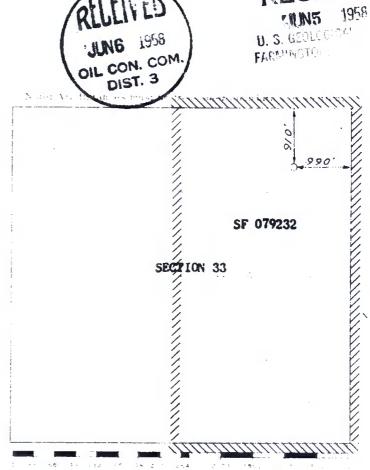
The same to secretly that the information to Section A showe is true and complete to the best of my knowledge and belief.

Owner

Al resu Matural Gas Company Original Signed D. C. Johnston Representative?

'Address

NOTE: THIS PLAT REISSUED TO SHOW PICTURED CLIFF DEDICATION ABANDONED. THIS WELL WILL BE COMPLETED IN MESA VERDE FORMATION ONLY.



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This is the certain that the another was propared from held these Countries and Powder by the servicing of the environment of the property constraints of the property of the

For interior, New Mexico.

A		Pit Permit	Client:	XTO Energy
Lodestar Servic	es, inc.		Project:	tank permitting
70 Box 4465, Darran	ga, CO 81302	Siting Criteria	Revised:	2-Dec-08
		Information	Prepared by:	Trevor Ycas
way, we were the same of the s	g ingritiski add	· zata a ragingaana gi		and the state of t
API#:	30	0-045-06176	USPLSS:	27N 08W 33 A
Name:	BOLACK C L	S No. 016	Lat/Long:	36.534820°, -107.681620°
	The state of the state of		Castanial	to the second contraction of the participation of the second of the seco
Depth to groundwater:	d	lepth > 100'	Geologic formation:	San Jose Formation (Tsj)
Distance to closest continuously flowing watercourse:		NW to 'San Juan River'	site elevation: 2046m/6713'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	main wash	W to 'Blanco Canyon' channel; 1.7 miles NE anyon' main channel		
			Soil Type:	Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
	•		Annual	Navajo Dam: 12.95", Governador: 11.98",
	1.1		Precipitation:	Capulin Rgr Stn.: 14.98", Otis: 10.41"
Domestic fresh water			Precipitation	Historical daily max. precip.: 4.19"
well or spring within		NO	Notes:	(Bloomfield)
500'				
Any other fresh water				
well or spring within		NO		
1000'				
to the second se		K.		And the second s
Within incorporated municipal boundaries		NO.	Attached Documents:	26N7W_iWaters.pdf, 26N08W_iWaters.pdf, 26N09W_iWaters.pdf, 27N07W_iWaters.pdf, 27N08W_iwaters.pdf, 27N09W_iwaters.pdf, 28N07W_iWaters.pdf, 28N08W_iWaters.pdf, 28N09W_iWaters.pdf
Within defined municipal fresh water well field		NO	FM3500640750B_30- 045-06176.jpg	30-045-06176_gEarth-iWaters:jpg, 30-045-06176_gEarth- PLS.jpg ,30-045-06176_topo-PLS.jpg
		000		
Wetland within 500'		NO	Mining Activity:	None Near
No.				NM_NRD-MMD_MinesMillQuarries_30-045-06176jpg
Within unstable area		NO		
Within 100 year flood plain	NO -	FEMA Zone 'X'		
		31 - 31		and the second s
Additional Notes:				
drains to 'Largo Canyon'				At a Discouling of City (
via 'Onofre Jaquez				Atop Blanco Mesa, S of Onofre Jaquez
Canyon'				Canyon'

Bolack C #16 Below Grade Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

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

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

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

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

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

Site Specific Hydrogeology

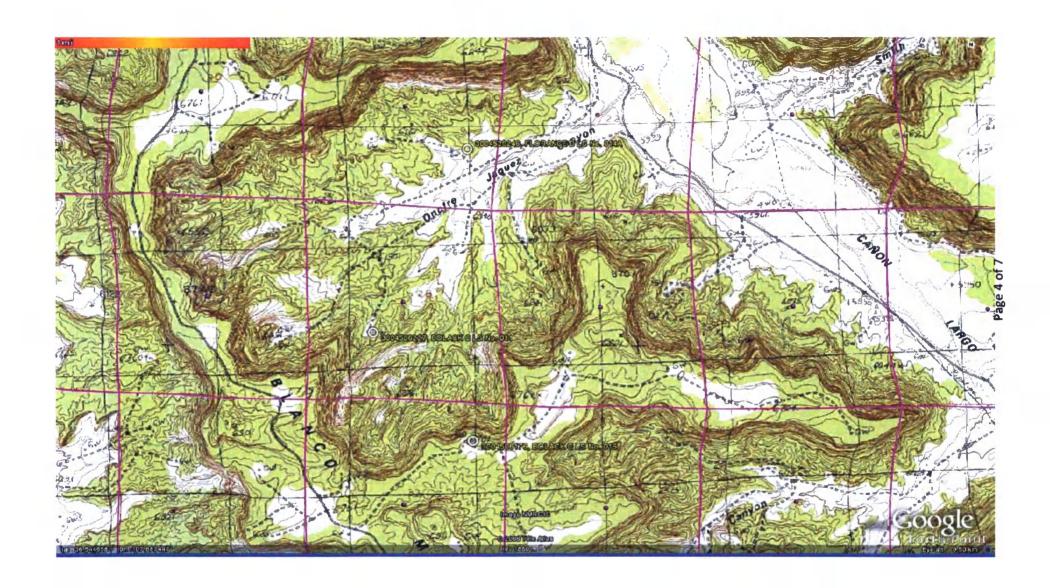
Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

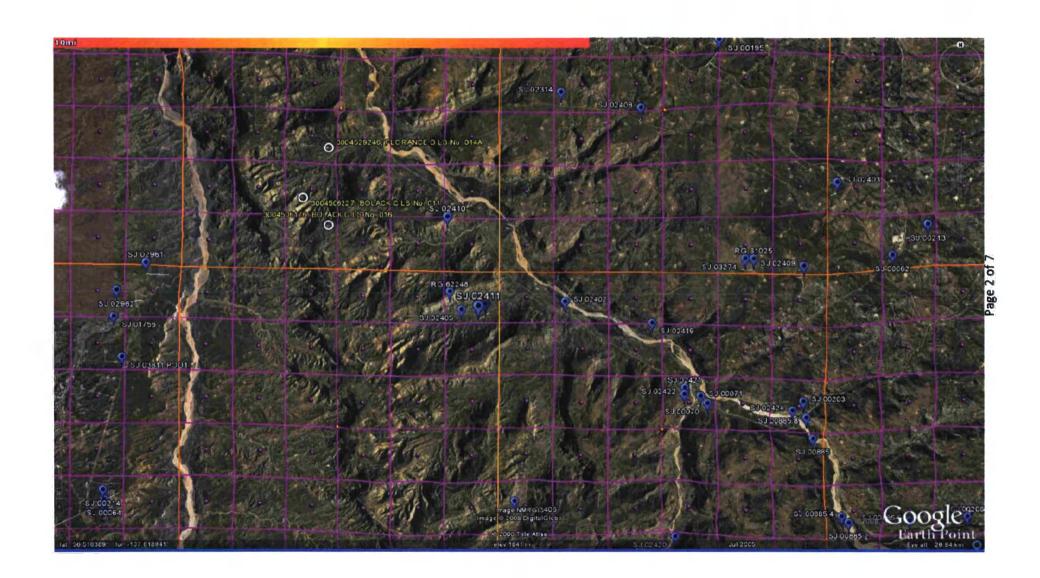
Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone, shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while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

The site in question is located on relatively flat ground atop Blanco Mesa at an elevation of approximately 6710 feet and approximately 1.7 miles west of Largo Canyon. This site drains to Largo Canyon, some 1.7 miles to the east. This region is deeply incised by canyons, washes, gullies and arroyos, with large, flat-topped mesas the other dominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries are evident on the attached aerial image. Groundwater is expected to be shallow within Largo Canyon and within major tributary systems. However, an elevation difference between the site and the base of Blanco Canyon of over 400 feet suggests groundwater is considerably deeper at the proposed site.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 2.3 miles east in Largo Canyon (SJ02410). Other 'nearby' iWaters wells are located 8.1 miles north-northwest (SJ02800), 4.8 miles east-northeast (SJ02314), and 3.1 miles west (SJ02961).

Wells located at similar elevations along Largo Canyon contain groundwater primarily at depths greater than 18 feet, occasionally in excess of 500 feet. A map showing the location of wells in reference to the proposed pit location is attached. An elevation difference of over 400 feet between the site and the nearest major stream channel suggests groundwater is likely deeper than 100 feet.





Township: 28N	Range: 08W Section		
NAD27 X:	Y: Zor	ne: Search I	Radius:
County: Bas	in:	Number:	Suffix:
Owner Name: (First)	(Last)	O Non-Dor	nestic ODomestic All
POD / Surface Da	ta Report Avg Depth to	Water Report Water C	Column Report
	Clear Form iWATE	RS Menu Help	

WATER COLUMN REPORT 08/04/2008

								3=SW 4=SE smallest	-		Depth	Depth	Water	(in	feet)
POD	Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Column		
SJ	02283	28N	08W	14	4	2	1				540	480	60		
SJ	00209	28N	08W	17	3	2	1				15				
SJ	00209 -AMENDED-S	28N	08W	17	4	1	1				15				
SJ	00209 S	28N	08W	17	4	1	1				15		15		
SJ	00163 S	28N	0.8M	18	4	4	2				1450	800	650		

NA	D27 X:	Y: Zone:	Search F	Radius:
County:	Basin:		Number:	Suffix:
Owner Name:	(First)	(Last)	O Non-Don	nestic ODomestic A
	POD / Surface Data R	Report Avg Depth to Wa	ter Report Water C	olumn Report

WATER COLUMN REPORT 08/11/2008

							smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Column	
SJ 00002	28N	07W	14	1						375			
SJ 03116	28N	0.7W	21	3	3	3				98	20	78	

282528

13

4059346

11/08/2005 11/10/2005

02/20/2006 02/25/2006

420

450

New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 28N Range: 06W Sections: Zone: Search Radius: County: Basin: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All Clear Form iWATERS Menu Help POD / SURFACE DATA REPORT 10/11/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (acre ft per annum) (quarters are biggest to smallest UTM are in Meters) X Y are in Feet Start Finish Depth DB File Nbr Source Tws Rng Sec q q q Use Diversion Owner POD Number Zone X UTM Zone Easting Northing Well 1 Date Date SD 07849 BJ 00200 ROSA B. MARTINEZ SD 07849 28N 06W 13 2 PDL 4060381 284303 BURLINGTON RESOURCES OIL & GAS 8J 00200 OFM Artesian 28N 06W 23 3 3 13 281564 4057870 05/23/1967 1551 8J 03005 STK DON SCHREIBER 8J 03005 Shallow 28N 06W 21 4 2 2 13. 279663 4058421 08/06/2000 08/10/2000 245 BJ 03043 STK JANE SCHREIBER SJ 03043 Shallow 28N 06W 21 4 2 2 13 279663 4058421 09/01/2000 09/02/2000 290 8J 03091 STK JANE SCHREIBER SJ 03091 Shallow 26N 06W 29 2 2 3 13 277834 4057457 05/17/2001 05/18/2001 150 8J 03443 SJ 03443 STK DON SCHREIBER 28N 06W 22 3 3 3 13 279853 4057809 300 8J 03675 DOM ARTURO R. SANCHEZ 8J 03675 28N 0EW 14 4 3 4 153167 2059732

28N 06W 12 2 2 4

Shallow

Shallow

SJ 03700 POD1

Record Count: 8

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SJ 03700

3 JANE SCHREIBER

New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 27N Range: D9W Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: ONon-Domestic ODomestic @ All Owner Name: (First) (Last) POD / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form (WATERS Menu Help POD / SURFACE DATA REPORT 08/12/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest X Y are in Feet (acre ft per annum) Depth Dept UTM are in Meters) Start Finish DB File Nbr POD Number Use Diversion Owner Source Tws Rng Sec q q q Zone X Y UTM Zone Easting Northing Date Well Water Date

No Records found, try again

	1 OD Reports and Downloads
	Township: 27N Range: 08W Sections:
	NAD27 X: Y: Zone: Search Radius:
	County: Suffix: Suffix:
	Owner Name: (First) (Last) Onn-Domestic Onnestic
	POD / Surface Data Report
	Clear Form iWATERS Menu Help
	WATER COLUMN REPORT 08/04/2008
	(quarters are 1=NW 2=NE 3=SW 4=SE)
	(quarters are biggest to smallest) Depth Depth Water (in feet)
POD Number	Tws Rng Sec q q q Zone X Y Well Water Column

	Township: 27N	Range: 07W	Sections:		
NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Bas	in:		Number:	Suffix:
Owner Name:	(First)	(Last		─ ○Non-Do	omestic ODomestic OAl
	POD / Surface Da	ata Report Av	g Depth to Water	Report Water	Column Report
		Clear Form	iWATERS Me	nu Help	

WATER COLUMN REPORT 08/04/2008

	_					Z 3=SW 4=SE) to smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q q	Zone	x	Y	Well	Water	Column	
RG 81025	27N	07W	35	4	3 3				560	465	95	
SJ 00195	27N	07W	15	2					1633	500	1133	
SJ 02314	27N	07W	17	3	3				355	320	35	
SJ 02408	27N	07W	21	2	1 3				400	300	100	
SJ 03274	27N	07W	35	3	4 4				450			
SJ 02404	27N	07W	35	4	3 3				550	250	300	

<u> </u>						e of the State Engin s and Downloads	1eer								
			Township:	27N Range: 06W	Se	ections:									
			NAD27 X	Y:		Zone: S	earch Radio	as:							
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		Owner	Name: (First)	(Las	st)	• N	Non-Domes	nc O Don	nestic	⊚ All					
			POD/Su	face Data Report	Avg Dep	th to Water Report	Water Colu	rnn Report							
				Clear Form	n iW	ATERS Menu Hel	lp								
		POD / SURFACE DATA REPORT	09/16/2008												
		EOD / GOLDANDE DATA REPORT	03/10/1000	(quarters ar	e l=NW	2=NE 3=SW 4=SE)								
	(acre ft per an	num)				est to smallest		in Feet		UTM are	in Meters)	Start	Finish	Depth
DB File Nbr	Use Diversion	Owner	POD Number	Source		Rng Sec q q q	Zone	×	Y	UTM_Zone	Easting	Northing	Date	Date	Well 1
SJ 00061	DOM 0	EL PASO NATURAL GAS COMPANY	SJ 00061	Shallow	27N	06W 32 3 3 3				13	276278	4044923	11/01/1956	11/07/1956	445
SJ 00062	DOM 0	EL PASO NATURAL GAS COMPANY	SJ 00062	Shallow	27N	06W 32 3 3 3				1:3	276278	4044923	11/08/1956		452
8J 00213	IND 17	EL PASO NATURAL GAS COMPANY	8J 00213	Shallow	27N	06W 32 1 4 4				13	276897	40,45750		06/20/1974	1308
SJ 02291	STK 3	BLM	SJ 02291		27N	06W 23 4 3 1				13	261993	4048335			
SJ 02403	DOM 2	JOE OR WILMA KAIME	SJ 02403		27N	06M 30 3 1 3				13	274714	4047115		12/31/1946	505
SJ 03001	DOM 3	CHARLES E. BRADLEY	SJ 03001	Shallow	27N	06W 07 2 2 1				13	276165	4052831	06/28/2000	07/04/2000	141

NA	.D27 X: Y	Zone:	Search 1	Radius:
County:	Basin:	1	Number:	Suffix:
Owner Name:	(First)	(Last)	Non-Dor	mestic ODomestic Al
	POD / Surface Data Rep	port Avg Depth to Water	er Report Water (Column Report

WATER COLUMN REPORT 08/08/2008

						E 3=SW 4=SE to smallest	•		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	P P	Zone	X	Y	Well	Water	Column	
SJ 02961	26N	09W	01	2	2 3				15.00			
SJ 02962	26N	09W	01	3	2 3				1500			
SJ 01756	26N	09W	11	2	2 3				7.5	4.0	35	
SJ 03811 POD1	26N	09W	12	3	3 3				348	175	173	
SJ 00412	26N	09W	16	4	2				202	65	137	
SJ 00214	26N	09W	26	2	4 2				946	230	716	
SJ 00064	26N	09W	26	4	2 1				490	215	275	
SJ 00063	26N	09W	2.6	4	2 3				479	234	245	

NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Bas	in:		Number:	Suffix:
Owner Name:	(First)	(Last)		Non-Do	mestic ODomestic All
	POD / Surface Da	ata Report Avg	Depth to Water R	eport Water	Column Report

WATER COLUMN REPORT 08/07/2008

	-						3=SW 4=SI smalles	•		Depth	Depth	Water	(in feet)
POD Number	Twe	Rng	Sec	P	q	q	Zone	x	Y	Well	Water	Column	
SJ 02405	26N	08W	01	3	4	3				180	100	80	
SJ 02411	26N	080	01	4	4	1				6000			
SJ 02407	26N	08W	01	4	4	1				2200			

	Fownship: 26N	Range: 07W	Sections:	·	
NA	D27 X:	Y:	Zone:	Search	Radius:
County:	Basi	n:		Number:	Suffix:
Owner Name:	(First)	(Last)		─ ○Non-Do	mestic ODomestic
	POD / Surface Da	ta Report Avg	Depth to Water	Report Water	Column Report
		Clear Form	iWATERS Mer	Help	

WATER COLUMN REPORT 08/06/2008

							3=SW 4=S smalles	_		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Column		
SJ 02409	26N	07W	01	1	2	2				700	400	300		
SJ 02402	26N	07W	05	3	3	2				36	18	18		
SJ 00071	26N	07W	15	4	1	2				365	26	339		
SJ 00070	26N	07W	15	4	2	3				335	22	313		
SJ 02406	26N	07W	30	3	2	1				280	180	100		

Township	: 26N Range: 06W	Sections:		
NAD27 X:	Y:	Zone:	Search Radius:	
County:	Basin:		Number: Suffix:	
Owner Name: (First)	(Last		○ Non-Domestic ○ Domestic	All
POD/Su	rface Data Report Ave	Depth to Water	Report Water Column Report	
	Clear Form	IWATERS Me	nu Help	
	WATER COLUMN REPORT	08/12/2008		

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

Two Rng Sec g g Zone

Depth Depth Water (in feet)

Tws Rng Sec q q q Zone X Y Well Water Column

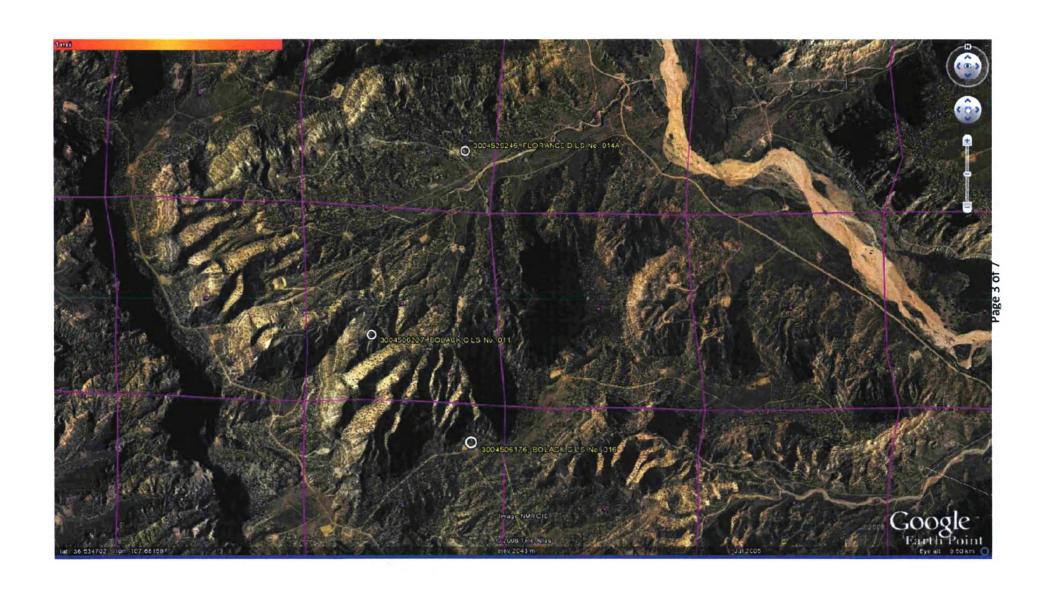
No Records found, try again

POD Number

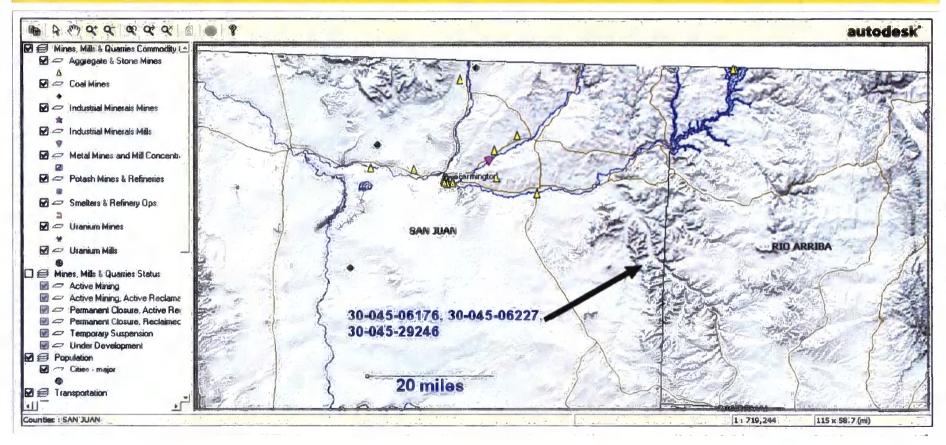
NA	D27 X:	Y:	Zone:	Search	Radius:
County:		Basin:		Number:	Suffix:
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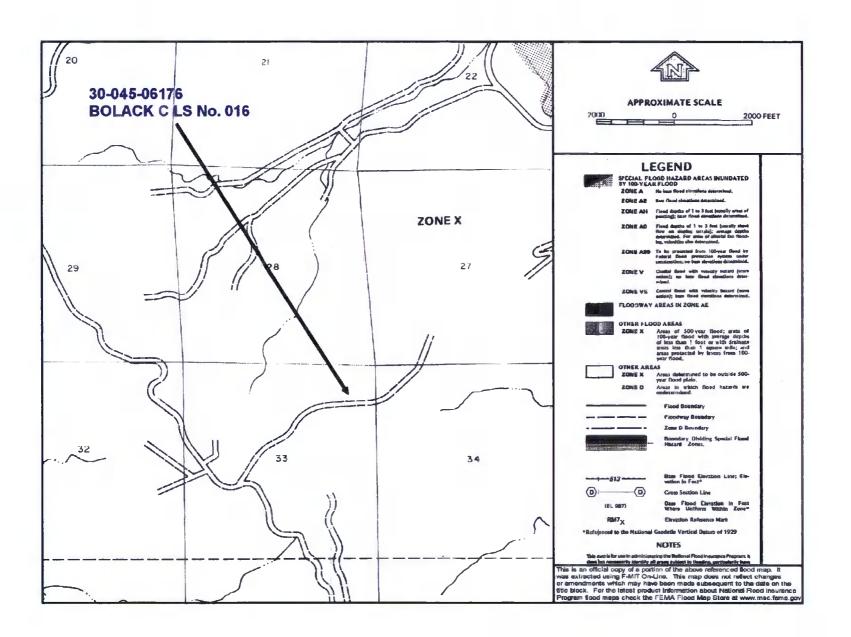
WATER COLUMN REPORT 08/06/2008

							3=SW 4=SI smalles	-		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Column	
SJ 03746 POD1	28N	09W	20	1	2	3				190	40	150	
SJ 00018	28N	09W	20	3	1	4				135	71	64	
SJ 02800	28N	09W	24	4	2	3				200			



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.

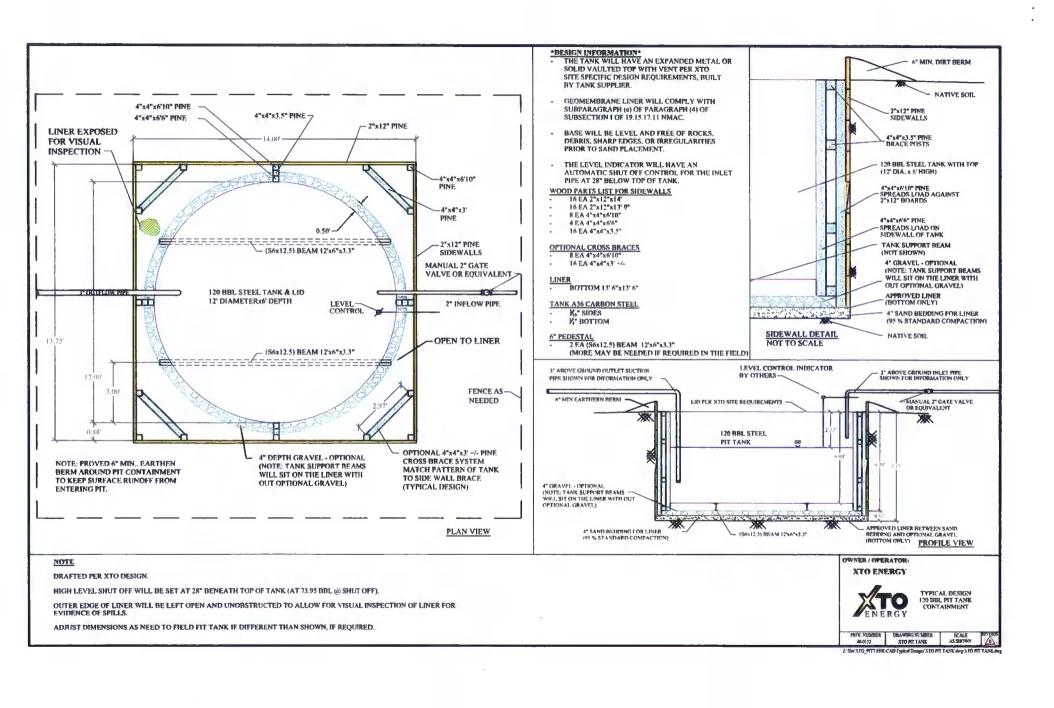
General Plan

- 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 1/4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

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

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



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

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- 2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
 - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

Well Name
API #
Sec., Twn., Rng.
XTO Inspector's name
Inspection date and time
Visible tears in liner
Visible signs of tank overflow
Collection of surface run on
Visible layer of oil
Visible signs of tank leak
Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

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

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

Well Name:					API No.:			
.egals	Sec:		Township:		Range:		•	
XTO Inspector's	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeboa
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft
								-
					ļ			
							-	
							-	
	-							
Notes:	Danida Da	tailed Descri	i-Ai			<u> </u>	J	
10tes.	Provide De	lalled Descri	iption:					
Missi								
Misc:								

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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

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
Soil contaminated by exempt petroleum hydrocarbons
Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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

analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

- 8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit.

 Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands.

 Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks Page 3

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner;
 - ii. Details on capping and covering, where applicable;
 - iii. Inspection reports;
 - iv. Confirmation sampling analytical results;
 - v. Disposal facility name(s) and permit number(s);
 - vi. Soil backfilling and cover installation;
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
 - viii. Photo documentation of the site reclamation.