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.

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

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method 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
ı. Operator: XTO ENERGY, INC. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410 RCVD AUG 1 'OB
Facility or well name: La Plata 4 #2 OIL CONS. DIV.
API Number: 30-045-31306 OCD Permit Number: DIST. 3
U/L or Qtr/Qtr Section 4C Township 31N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.933909 Longitude 108.211181 NAD: 1927 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment
□ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other
Selow-grade tank: Subsection I of 19.15.17.11 NMAC Subsection I of 19.15.17.11 NMAC
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify									
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)									
8. 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. Fencing- Hogwire 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 all Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.								
Ground water is less than 50 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 X 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 X 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 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:
12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
☐ Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Gil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Type: Drilling workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-100p System Alternative Proposed Closure Method: Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems) ☐ In-place Burial ☐ On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 15.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ 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
Ke-vegetation Fian - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 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 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 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 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 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	AC) han two
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 service and 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 Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source mat provided below. Requests regarding changes to certain sting criteria may require administrative approval from the appropriate district office and exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justification demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. 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 Ground water is nore 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 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 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 Within 500 horizontal feet of a private, domestic f	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and Yes (If yes, please provide the information below) No No No No No No No No	
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 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source mat provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justification demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. Ground water is less than 50 feet below the bottom of the buried waste.	
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 source mat provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district officensidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justification demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. 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 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 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 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 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 Within 500 horizontal feet of a private, domestic 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 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.	
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lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 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.	Yes 🔲 No NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 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.	Yes 🗌 No
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 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.	Yes 🗌 No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes 🗌 No
l I	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. Place 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 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 accepted by the proper of 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	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: Date: July 31, 2008
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: Brud Sell Approval Date: 8-5-08
Title: Enviro / spec 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:
22. 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 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
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD: \[\] 1927 \[\] 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-31306	Pool Name BASIN FRUITLAND COAL (GAS)	Pool Code 71629
Property Code 15613	Property Name LA PLATA 4	Well No.
OGRID No. 22521	Operator Name TEXAKOMA OIL & GAS CORP	Elevation 5890

Surface And Bottom Hole Location

UL or Lot	Section 4	Township 31N	Range 13W	Lot Idn	Feet From 904	N/S Line N	Feet From 2053	E/W Line W	County San Juan
Dedicated Acres Joint or Infill			Infill	Consolid	dation Code	**************************************	Order 1	No.	***************************************
321.9				1					

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By: Tom Sprinkle

Title: Drilling Manager Date: 01/03/2003

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gerald Huddleston Date of Survey: 12/14/2002 Certificate Number: 6844

Hydrogeological Report for La Plata 4 #2 Below Ground Tank (30-045-31306)

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 in the northwest corner of the San Juan Basin, where the Hogback monocline ends and the topographically flatter sandstones and shales of the Nacimiento/Animas Formations are exposed. The stratigraphic section reflects the Late Cretaceous transition of shallow marine depositional environment to Tertiary terrestrial fluvial depositional environment.

Major stratigraphic units, in ascending order, are the Ojo Alamo Sandstone, the Nacimiento and Animas Formations and the San Jose Formation (Brister and Hoffman, 2002). Also, deposits of Quaternary alluvial and aeolian sands occur prominently near the surface, 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 Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. 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 La Plata River, which is a tributary of the San Juan River.

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 for La Plata 4 #2 Below Ground Tank (30-045-31306)

Depth to groundwater is estimated to 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 and Animas Formations, which range from 0 to 1000 feet deep in this area (Stone et al., 1983). This depth range covers an area over 20 miles wide and depth decreases towards the margin of the San Juan Basin, where sandstones outcrop at the surface. The site in question is located on a slope approximately 5 miles away from outcropping sandstones. The slope is composed of shale and alluvium which, taken together, are expected to be at least 50 feet thick.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. Wells are clustered near populated areas to the southwest of the site. Depth to groundwater within the wells ranges from 40 to 180 feet below ground surface. In general, wells located near the La Plata River are shallow, while wells located on the shaley slopes west of the river are deeper. A map showing the location of wells in reference to the proposed pit location is attached. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells with shallow groundwater are located near the La Plata River. The one exception is the well farthest south, which contains groundwater at 40' depth. Close inspection of the aerial photo and topographic map indicates this well is located within the floodplain of the La Plata River, where groundwater is expected to be shallow. The proposed below grade tank site is situation a good 50 feet higher in elevation. The proposed site elevation is 5900', while the well with shallow groundwater is 5846' in elevation (Google Earth).

Siting Criteria for La Plata 4 #2 Below Ground Tank (30-045-31306)

Depth to Groundwater

Groundwater is estimated to be between 50 and 100 feet as argued in the previous section, "Site Specific Hydrogeology".

Surface Water

The closest continuously flowing watercourse is the La Plata River, which is 1.5 miles to the east of the proposed site. Left Hand and Cunningham irrigation ditches run for half of the year and are located between the river and the proposed site. Left Hand Ditch is approximately 2200 feet away and Cunningham Ditch is approximately 5000' away. See the attached aerial photo for ditch locations. Murphy Arroyo, a dry wash, is 425 feet away from the site (see attached topographic map). No wetlands are identified through inspection of the topographic map. A FEMA floodplain map is attached, indicating the site is located in a zone that is defined as outside of the 500-year flood plain.

Private and Public Structures

An aerial photo is attached and it is clear that no residences, schools, hospitals, public institutions or churches are located within 500 feet of the site.

Private or Public Water Sources

The below grade tank will not be located near any private fresh water well or spring. No water well was found within 4500 feet of the proposed site on the iWaters database, and no freshwater spring is identified on the topographic map.

Municipal Boundaries

The well site is not located within any incorporated municipal boundaries or municipal fresh water well field.

Wetlands

No wetlands can be identified through inspection of the topographic map.

Subsurface Mines

A NM Bureau of Geology and Mineral Resources map is attached showing the location of any mines, mills or quarries that may be nearby the proposed site. There is a stone quarry approximately 2 miles north of the site. The La Plata Mine is 4.5 miles north of the site.

Site Stability

The site is not located in an unstable area, as is evident on the attached topographic map.

Floodplain

A FEMA floodplain map is attached, indicating the site is located in a zone that is defined as outside of the 500-year flood plain.

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31N Range: 13W Sections: 3,5,8,9,10
NAD27 X: Y: Zone: Search Radius:
County:
Owner Name: (First) (Last) ONon-Domestic ODomestic @All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

WATER COLUMN REPORT 07/18/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water (in feet) Rng Sec q q q 13W 03 2 POD Number Tws Zone Well Water Column SJ 03386 31N 80 11 69 2 3 2 31N 13W 03 SJ 02879 30 2 3 3 SJ 03137 31N 13W 03 50 2 3 4 SJ 02990 31N 13W 03 100 78 SJ 01295 31N 13W 09 2 1 1 180 50 SJ 02977 31N 13W 09 2 1 3 325 124 201 SJ 02920 31N 13W 09 85 SJ_02755 31N 13W 09 60 40 20 13W 09 4 1 3 SJ 02987 31N 250 87 163 SJ 03382 31N 13W 09 4 3 2 50 SJ_02717 31N 13W 10 1 3 42 22 20 SJ 00798 31N 13W 10 125 65 60 SJ 01094 31N 13W 10 130 60 70 31N 13W 10 2 1 1 SJ_00089 80 18 62 2 4 SJ 01952 31N 13W 10 16 6 10 SJ 01944 31N 13W 10 20 4 16

http://iwaters.ose.state.nm.us: 7001/iWATERS/WellAndSurfaceDispatcher

7/18/2008

SJ_02276	31N	13W 10	3		24	19	5
SJ 01945	31N	13W 10	3	3	31	16	15
SJ 00729	31N	13W 10	4	1	43	10	33
SJ 01950	31N	13W 10	4	1	21	11	10
SJ 02637	31N	13W 10	4	2 2	20	6	14

New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 07/18/2008

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

	(quarter	s are	a big	gge	st	: to	smallest	.)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	х	Y	Well	Water	Column	
SJ 03256	32N	13W	34	1	4	2				21	6	15	
SJ 03037	32N	13W	34	1	4	3				100			
SJ 03066	32N	13W	34	2	2	2				41	28	13	
SJ 01079	32N	13W	34	3	3					100	30	70	
SJ_01943	32N	13W	34	4						8	3	5	
SJ_02901	32N	13W	34	4	2	2				50			
SJ_03635	32N	13W	34	4	2	4				44	35	9	
SJ 02577	32N	13W	34	4	4					30	15	15	

New Mexico Office of the State Engineer

			POD Repo	orts and Downloa	ads				
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http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

SJ 00997	PUB	3	NM STATE HWY. DEPT.	SJ 00997		31N	13W 10	2	3 1
SJ 01000	PRO	3	INC. CONSOLIDATED OIL & GAS	SJ 01000	_	31N	13W 03	4	2 1
SJ 01001	PRO	3	INC. CONSOLIDATED OIL & GAS	SJ 01001	•	31N	13W 03	1	4 1
SJ 01094	DOM	3	ELBERT HAMBLIN	SJ 01094	Shallow	31N	13W 10	2	
SJ 01295	DOM	3	JOHN D. TERRY	SJ 01295	Shallow	31N	13W 09	2	1 1
SJ 01448	DOM	3	GEORGE T. WALTERS	SJ 01448	•	31N	13W 03	1	1 3
SJ 01799	DOM	3	CHARLOTTE B. RICHARDS	SJ 01799		31N	13W 09	4	3 3
SJ 01944	_ DOM	3	TERRY G. HOOD	SJ 01944	Shallow	31N	13W 10	2	4
SJ 01945	DOM	3	DEZMER R. HARRIS	SJ 01945	Shallow	31N	13W 10	3	3
SJ 01950	_ DOM	3	GEORGE A. PHIPPS	SJ 01950	Shallow	31N	13W 10	4	1
SJ 01952	_ DOM	3	STEVEN CRAIG SIEGEL	SJ 01952	Shallow	31N	13W 10	2	4
SJ02276	_ DOM	3	JOSE MANTALVO	SJ 02276	Shallow	31N	13W 10	3	
SJ 02373	_ DOM	3	ROBERT AND SHERRIE TROBAUGH	SJ 02373		31N	13W 03	2	1
SJ 02456	_ DOM	3	LYNN SHINSKY	SJ 02456		31N	13W 03	2	1 2
SJ 02467	_ DOM	3	GEORGE TROSKY	SJ 02467		31N	13W 03	2	3
SJ 02471	_ DOM	3	STANLEY VOLLMERT	SJ 02471		31N	13W 03	2	4
SJ_02637	_ DOM	3	NOEL ROGERS	SJ 02637	Shallow	31N	13W 10	4	2 2
SJ 02717	_ DOM	3	SUE DECKER	SJ 02717	Shallow	31N	13W 10	1	3
SJ 02718	STK	3	JAYE E. DECKER	SJ 02718		31N	13W 09	2	4
SJ 02755	_ DOM	3	HOMER JACKSON	SJ_02755	Shallow	31N	13W 09	2	3 4
SJ_02879	_ DOM	3	MICHAEL WOFFORD	SJ 02879		31N	13W 03	2	3 2
SJ_02920_	_ DOM	3	WILLIAM R. WALKER	SJ 02920		31N	13W 09	2	3 3
SJ 02977	DOM	3	PATRICK MONTOYA	SJ 02977	Shallow	31N	13W 09	2	1 3
SJ02987	_ MUL	3	ROY LEE MOREHEAD, JR.	SJ_ 02987	Shallow	31N	13W 09	4	1 3
SJ 02990	DOM	3	CORY A. KNOTE	SJ 02990	Shallow	31N	13W 03	2	3 4
SJ 03137	STK	3	DON BRUMBAUGH	SJ 03137		31N	13W 03	2	3 3
SJ 03382	_ STK	3	BEN HAZLEWOOD	SJ 03382		31N	13W 09	4	3 2
SJ 03386	DOM	3	GRETTA BECAY	SJ 03386	Shallow	31N	13W 03	2	
SP 01303	-	5.5	HARRISON H. BROWN	SP 01303		31N	13W 10	4	1 2
SP 03453	_ IND	0	SAN JUAN BASIN WATER HAULERS	SP 03453 LP1		31N	13W 03	2	4 3
SP_03873	OIL	0	AMOCO PRODUCTION COMPANY	SP 03873 21		31N	13W 03	2	4 3

New Mexico Office of the State Engineer

			POD Reports and D	ownloads					
		Townshi	p: 32N Range: 13W Sections:	32,33,34					
		NAD27 X	Y: Zone:	Search Ra	idius:				
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			Clear Form iWATER:	S Menu Help					
			POD / SURFACE DATA REPORT	07/18/2008	(quarters are	1=NW	2=NE	3=S1	W 4=SE
	(acre	ft per ann	um)		(quarters are				
DB File Mbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng S	Sec ·	ppp
SD 02506	IRR	0	CUNNINGHAM DITCH	SD 02506		32N	13W 3	34	1 1
SD 02506 1	IRR	0	ROBERT ANDERSON ESTATE	SD 02506		32N	13W 3	34	1 1
SD 02506 10	IRR	0	F.F. MCCARTY	SD 02506		32N	13W 3	34	1 1
SD 02506 11	_ IRR	0	EDWARD C. MCNAMEE	SD 02506		32N	13W 3	34	1 1
SD 02506 11A	IRR	0	NICKLES BROS., INC.	SD 02506		32N	13W 3	34	1 1
SD 02506 12	IRR	0	J.M. KEENEY	SD 02506		32N	13W 3	34	1 1
SD 02506 13	_ IRR	0	HARRISON BROWN			32N	13W 3	34	1 1
SD 02506 13A	IRR	0	ROY GIBSON	SD 02506				34	1 1
SD 02506 13B				SD 02506 SD 02506		32N	13W 3	-	1 1
SD 02506 13C	IRR	0	W.L. FULLER	SD 02506 SD 02506		32N 32N	13W 3		
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SALLY SUTER

SD 02506 3C IRR

7/18/2008

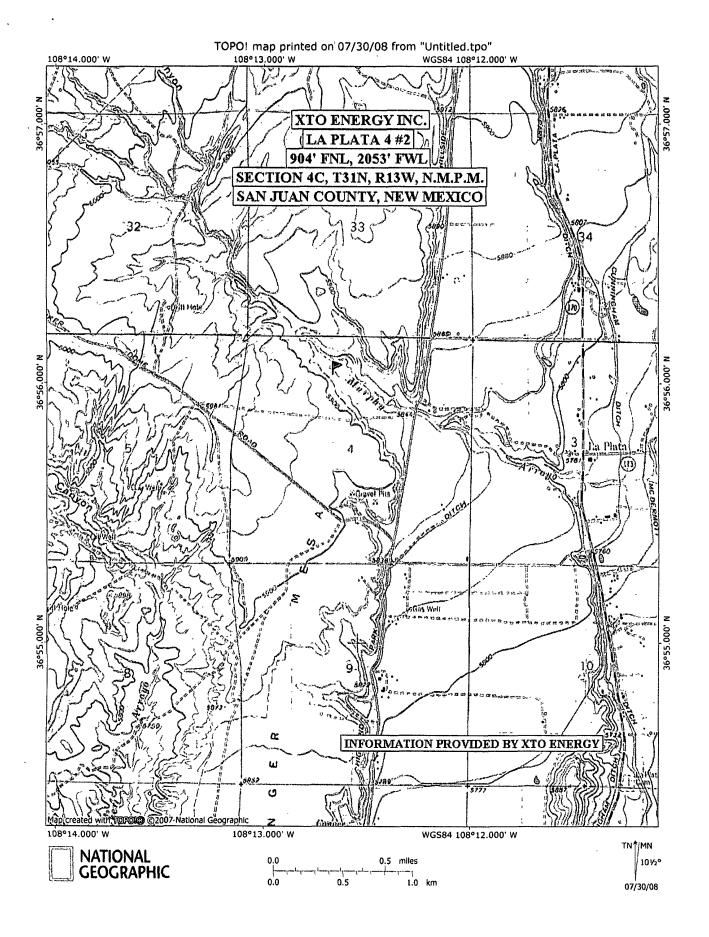
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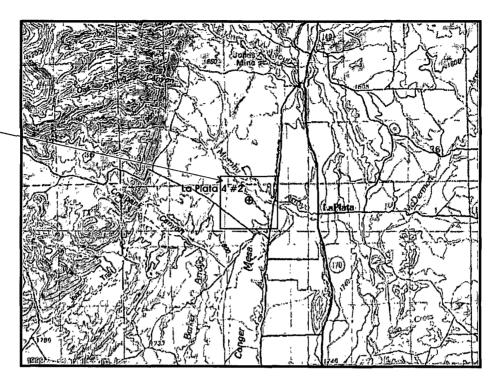
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SD 02506 8B	IRR	0	TANYA DORSETT	SD 02506	32	N 13W 3	34	1 :	1
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SD 02854 1	IRR	0	PATRICK M. WALTERS	SD 02506	32	N 13W 3	34	1 :	1
SD 02854 2	IRR	0	LYLE SMITH	SD 02854	32	N 13W 3	34	4 2	2
SD 02854 2A	IRR	0	PATRICK M. WALTERS	SD 02854	32	N 13W 3	34	4 2	2
SJ 01002	PRO	3	INC. CONSOLIDATED OIL & GAS	SJ 01002	32	N 13W	34	3 4	4 2
SJ 01079	DOM	3	HARRY J. BURRIS	SJ 01079	Shallow 32	N 13W	34	3 3	3
SJ_01943	IRR	488.4	LA PLATA FARMS	SJ 01943	Shallow 32	N 13W	34	4	
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SJ 02577	DOM	3	THOMAS D. SITTON	SJ 02577	Shallow 32	N 13W 3	34	4	4
SJ 02592	DOM	3	JACK DAVID MCFARLAND	SJ 02592	32	N 13W 3	34	4	4 4
SJ 02629	DOM	3	HOWARD ENGLE	SJ 02629	32	N 13W 3	34	4 4	4 2
				SJ 02629 X	32	N 13W 3	34	4	4 2
SJ 02660	DOM	3	JENE L. & VALESKA KIRK	SJ 02660	32	N 13W 3	34	4	4 2
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SJ 02696	DOM	3	HOWARD & JEWELL, LYNN ENGLE	SJ 02696	32	N 13W 3	34	4 4	4 2
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SJ 03066	STK	3	MONTOYA SHEEP & CATTLE	SJ 03066	Shallow 32	N 13W 3	34	2 2	2 2
SJ 03256	DOM	3	MELODY ARRINGTON	SJ 03256	Shallow 32	N 13W 3	34	1 4	4 2
SJ 03635	DOM	3	TONI LORENZEN	SJ 03635	Shallow 32	N 13W 3	34	4 2	2 4



Aerial Photo showing locations of proposed below grade tank location (La Plata 4 #2) and existing groundwater wells from the NM State Engineer's Office iWATERS database. Numbers beside pinpoints are depth to water in feet measured in wells.



Approximate Location of Aerial Photo

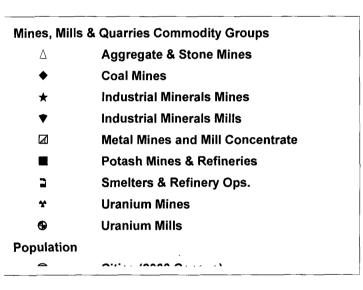


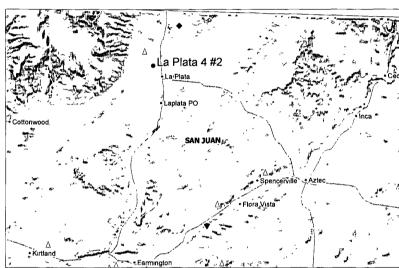


Lodestar Services, Inc PO Box 3861 Farmington, NM 87499 La Plata 4 #2 SEC. 4, T31N, R13W SAN JUAN COUNTY, NEW MEXICO

PROJECT: Pit Permits DRAWN BY: ALA REVISED: 07/17/2008 TOPOGRAPHIC MAP AND AERIAL PHOTOGRAPH

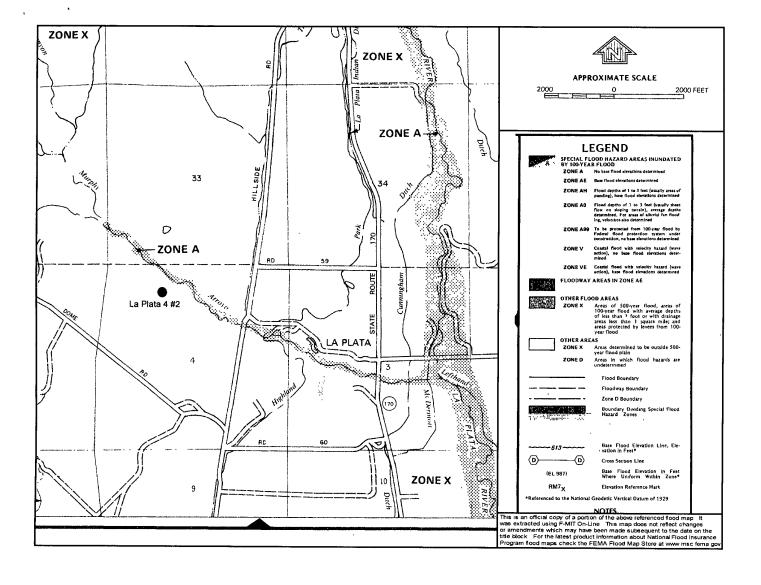
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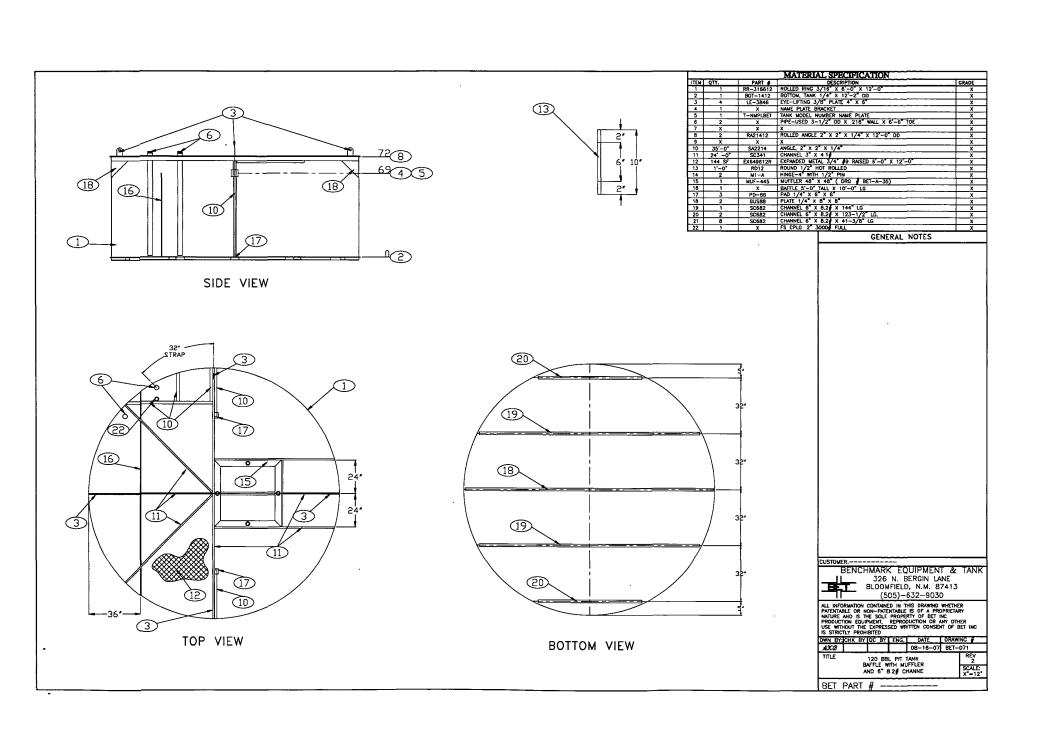


XTO Energy Inc. San Juan Basin Below Grade Tank Design and Construction Plan

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.
- 6. XTO will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight.
- The BGT system will have a properly constructed foundation consisting of a level base free of
 rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner
 or tank bottom.
- 8. XTO will construct a BGT in a manner that prevents the collection of surface water run-on.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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 heath and environment.
- 2. XTO will not allow a BGT to overflow or allow surface water 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 overtopping of the BGT.

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

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

General Plan

- XTO will close a BGT within the time periods provided in 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 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.
- 6. XTO 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.
- 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 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:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

- 11. 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:
 - i. Details on capping and covering, where applicable
 - ii. Inspection reports
 - iii. Sampling results
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 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.
- 14. 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.
- 15. 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.