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

V 220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to

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

# 2008 DEC 12 FM 4 15

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

1 to posed Attendative iviethed 1 ethilt of	Ciosure I iaii Application
below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, co	101 HERO 101 HE
Please be advised that approval of this request does not relieve the operator of liability should op environment. Nor does approval relieve the operator of its responsibility to comply with any otl	
1.	to apprecion to reminimize authority of the control of ordinances.
Operator: XTO Energy, Inc.	OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name: _FRPC 16 #1	
API Number: 30-045-33328 OCD Permit No	
U/L or Qtr/Qtr N Section 16 Township 29N Range	13W County: San Juan
Center of Proposed Design: Latitude 36.721736 Longitude	
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment	
☐ Pit:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       ☐ Drilling       ☐ Workover         ☐ Permanent       ☐ Emergency       ☐ Cavitation       ☐ P&A         ☐ Lined       ☐ Unlined       Liner type:       Thickness      mil       ☐ LLDPE       ☐ HDPE         ☐ String-Reinforced       Liner Seams:       ☐ Welded       ☐ Factory       ☐ Other	
Closed-loop System: Subsection H of 19.15.17.11 NMAC   Type of Operation: P&A Drilling a new well Workover or Drilling (Applies tintent)   Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thicknessmil LLDPE HDF Liner Seams: Welded Factory Other	
Note	, vaulted, automatic high-level shut off, no liner
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)	ol, 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)	
importants (if netting of selecting is not physically leastone)	
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	
9. 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.	
consideration of approval.	office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accommaterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	opriate district
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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☑ No
Vithin a 100-year floodplain FEMA map	☐ Yes ☑ No

	ú
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC	
and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	,
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC	
□ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design)  API Number:	
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assurance Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Emergency Response Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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)	
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 G of 19.15.17.13 NMAC	

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.		
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:		
Will any of the proposed closed-loop system operations and associated activities o  Yes (If yes, please provide the information below) No		
Required for impacted areas which will not be used for future service and operation  Soil Backfill and Cover Design Specifications based upon the appropriat  Re-vegetation Plan - based upon the appropriate requirements of Subsection  Site Reclamation Plan - based upon the appropriate requirements of Subsection	e requirements of Subsection H of 19.15.17.13 NMA( 1 I 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 provided below. Requests regarding changes to certain siting criteria may requi considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	re administrative approval from the appropriate dist. Il Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Database search;	ta obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Database search;	a obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Database search; US	ta obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other siglake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellit		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or - NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approx	•	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visu	al 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	g and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map	y & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying property of Protocols and Procedures - based upon the appropriate requirements of 19.1.  Confirmation Sampling Plan of Temporary Pit (for liquids, drilling fluids and of Disposal Facility Name and Permit Number (for liquids, drilling fluids and of Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	puirements of 19.15.17.10 NMAC  f Subsection F of 19.15.17.13 NMAC  ppropriate requirements of 19.15.17.11 NMAC  pad) - based upon the appropriate requirements of 19.15.17.13 NMAC  puirements of Subsection F of 19.15.17.13 NMAC  Subsection F of 19.15.17.13 NMAC  drill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC  I of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:  I hereby certify that the information submitted with this application is true.	e, accurate and complete to the	e best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	12.10.08
		(505) 333-3100
20.		
OCD Approval: Permit Application (including closure plan)	losure Plan (only) DOCD	Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permit Numb	per:
Closure Report (required within 60 days of closure completion): Sub- Instructions: Operators are required to obtain an approved closure plan The closure report is required to be submitted to the division within 60 a section of the form until an approved closure plan has been obtained an	n prior to implementing any c days of the completion of the c ad the closure activities have b	losure activities and submitting the closure report. closure activities. Please do not complete this been completed.
·	☐ Closure Comp	letion Date:
Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.	Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop S Instructions: Please indentify the facility or facilities for where the liquitivo facilities were utilized.		
Disposal Facility Name:	Disposal Facility Pe	rmit Number:
Disposal Facility Name:		rmit Number:
Were the closed-loop system operations and associated activities perform  Yes (If yes, please demonstrate compliance to the items below)	ed on or in areas that will not b	
Required for impacted areas which will not be used for future service and  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	l operations:	
24.		
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 of Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)	losure)	
On-site Closure Location: Latitude	Longitude	NAD: □1927 □ 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this obelief. I also certify that the closure complies with all applicable closure of the control o	requirements and conditions sp	pecified in the approved closure plan.
Name (Print):	1itle:	
Signature:	Date:	
e-mail address:	Telephone:	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Asse., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Azzec, NM 87410
District IV

1220 S. St. Frencis Dr., Senta Fe, NM

87505

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

Form C-102 Permit 15232

# WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-33328	Pool Nema KUTZ PICTURED CLIFFS, WEST (GAS)	Pool Cod 79680
Property Code 35601	Property Name F-RPC 16	Well No.
OGRID No.		Elevation
229938	Operator Name  LANCE OIL & GAS COMPANY, INC.	5294

## Surface And Bottom Hole Location

UL or Lot.	Section	Township	Renge	Lot Idn	Feet From	N/S Lina	Feet From	E/W Line W	County
N	16	29N	13W	N	780	S	1825		San Juan
Dedices		Joint or	r <u>Indill</u>	Consoli	detion Code		Order	No.	

TIE.		
	×	

## **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: Mary Mondragon

Title: Supervisor Production

Date: 08/31/2005

# 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: 06/15/2004 Certificate Number: 6844



# Pit Permit Siting Criteria Information Sheet

Client:	XTO Energy
Project:	Pit Permits
Revised:	20-Nov-08
repared by:	Brooke Herb

Information Sheet  3004533328  FRPC 16 #1  < 50'  128' N of the Animas River; 37' W-NW of San Juan River  3900' S of Irrigation Ditch	Prepared by:  USPLSS:  Lat/Long:  Geologic formation:  Soil Type:	Brooke Herb  T29N,R13W,S16N  36.721736, -108.214226  Nacimiento Formation
FRPC 16 #1  < 50'  128' N of the Animas River; 37' W-NW of San Juan River  3900' S of Irrigation Ditch	Lat/Long: Geologic formation:	36.721736, -108.214226  Nacimiento Formation
< 50'  128' N of the Animas River; 37' W-NW of San Juan River  3900' S of Irrigation Ditch	Geologic formation:	Nacimiento Formation
128' N of the Animas River; 37' W-NW of San Juan River 3900' S of Irrigation Ditch	formation:	
37' W-NW of San Juan River 3900' S of Irrigation Ditch	Soil Type:	
	Soil Type:	
Vac. 1751 F of account	Soil Type:	
Vac. 17515 of access		Entisols
structure		
	Annual Precipitation:	8.71 inches (Bloomfield)
s - 172' NW of iWaters well SJ00453	Precipitation Notes:	no significant precip events
es - 628' NW of iWaters well SJ01443		
No	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
No		Aerial Photo, Topo Map, Mines Mills and Quarries Map
No	Mining Activity:	
No		2934' NW of Acora Pit
No - FEMA Flood Zone 'X'		
:5	s - 172' NW of iWaters well SJ00453 s - 628' NW of iWaters well SJ01443  No  No  No	Annual Precipitation: S - 172' NW of iWaters well SJ00453 S - 628' NW of iWaters well SJ01443  No  No  No  No  Mining Activity:

# FRPC 16#1 Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T29N, R13W, Section 16, Quarter Section N

Latitude/Longitude: approximately 36.721736, -108.214226

County: San Juan County, NM

General Description: near the San Juan River and Animas River

# 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 near the confluence of the San Juan River and the Animas River just south of Farmington, New Mexico. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

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

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

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

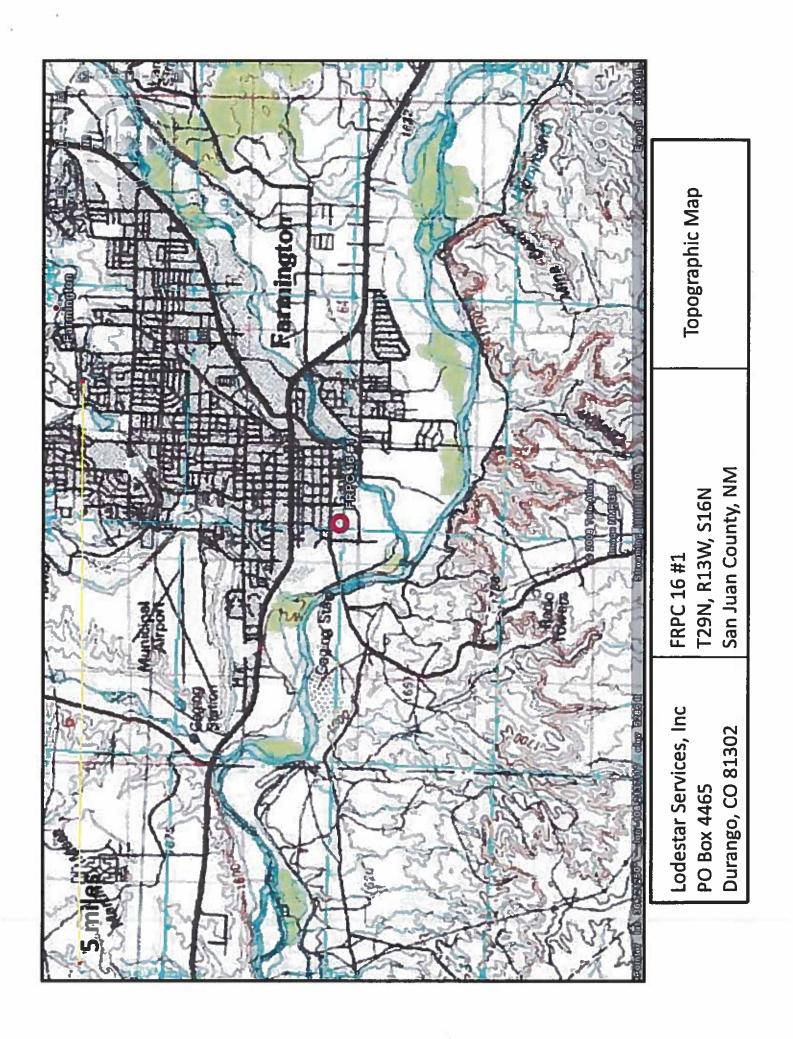
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

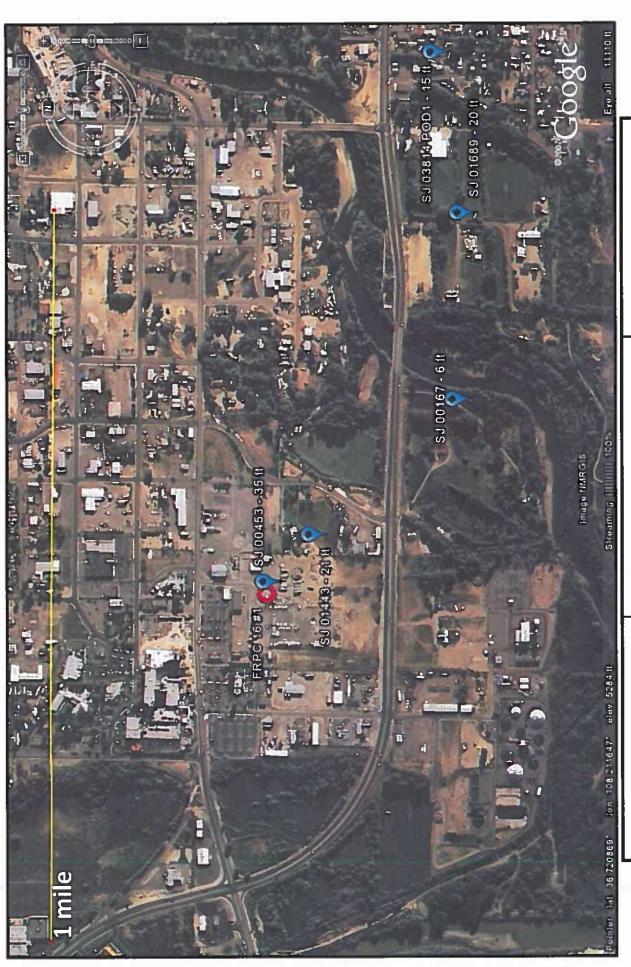
# Site Specific Hydrogeology

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

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the Animas River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 2128 feet to the north of the Animas River, and is approximately 30 feet higher in elevation (Google Earth).

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Depth to groundwater within the nearby wells ranges from 6 feet to 35 feet below ground surface. The closest iWaters data point to the proposed site is located approximately 172 feet to the southeast, and is at approximately the same topographic elevation as the proposed site (Google Earth). Depth to groundwater within the well is 35 feet below ground surface. The close proximity to the Animas and San Juan Rivers suggests that groundwater depth at the proposed site is less than 50 feet.





FRPC 16 #1 T29N, R13W, S16N San Juan County, NM

| iWaters Groundwater | Data Map

Lodestar Services, Inc PO Box 4465 Durango, CO 81302

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

ctions:	le: Search Radius:	▼ Number: Suffix:	Non-Domestic Domestic All	POD / Surface Data Report Avg Depth to Water Report Water Column Report
Township: 200 Range: 130 Sections:	NAD27 X: Zone:	County. Basin:	Owner Name: (First) (Last)	POD / Surface Data ReportAvg Deptl

WATER COLUMN REPORT 11/14/2008

10)	arter	s are	干	2=	高	(quarters are 1=NW 2=NE 3=SW 4=SE)							
120)	arter	s are	bid	gest	3	(quarters are biggest to smallest)			Depth	Depth	Water (in feet)	(in	feet)
PCD Number	IVS	Rng	Sec	5	ь	Zone	×	<b>&gt;</b> +	Well	Water	Column		
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RG 14227	29N	13W	on CH			ن د			eg S	10	th th		
SJ 00344	29N	13W	01	3 1					75	40	က က		
SJ 00168	29N	137	01	3 1					50	e e e e	31		
SJ 01363	N52	13%	10	3					in O	34	ES.		
SJ 02484	29N	13W	10	ლ ლ	_				40				
SJ 02260 S	293	137	010	(€) #2 4					10				
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SJ 02260	29N	137	01	₹† (?)					13 13				
SJ 03427	29N	13W	01	4 1	✓r				99				
SJ 03333	Z9M	13W		다 다					44 00	m H	30		
SJ 03272	N6E	13W		ლ - T	ന				140		103		
SJ 03273	25M	13W	0.50	61 61	-				120	20	100		
SJ 03288	N65	13W	02	ω 4ι					120	06	30		

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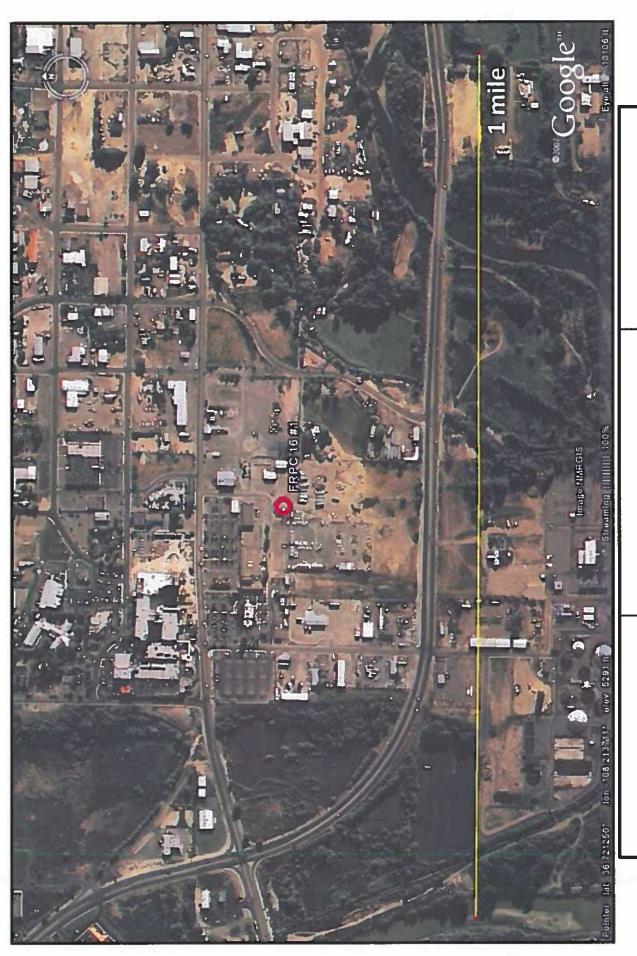
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02417         29N         13W         11         1         4         59           02336         29N         13W         11         2         2         1         4         40         60           02336         29N         13W         11         2         2         1         4         40         60           021951         29N         13W         11         2         2         1         4         4         60         90           00716         29N         13W         11         2         3         20         9         30         20         9         30		29N	13W	2	색	-10		(7) (3)	10
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02136         29N         13W         11         2         3         50           01551         29N         13W         11         2         3         39         39           00758         29N         13W         11         2         3         20           00301         29N         13W         11         2         3         45           00736         29N         13W         14         1         3         39           00736         29N         13W         14         1         30         30           02307         29N         13W         14         1         30         30           02307         29N         13W         14         1         30         30           02024         EXPLOR-16         29N         13W         4         1         4         1         10           02024         EXPLOR-16         29N         13W         4         2         1         4         1         1         3           02024         EXPLOR-16         29N         13W         4         2         1         1         1         1         1         1         1		29N	131	11	CI.	01		40	10
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Q2001         29h         13W         11         2         3         20           Q075B         29h         13W         11         2         3         35         35           Q0710         29h         13W         11         2         3         45           D0715         29h         13W         11         4         1         180         45           D0716         29h         13W         14         1         4         1         180         45           D0716         29h         13W         14         1         3         28         28           D3027         29h         13W         14         1         3         28         28           D3027         29h         13W         14         1         3         28         28           D3027         EXPLOR-16         29h         13W         14         1         4         1         12         1         180         12         1         12         1         12         1         1         12         1         12         1         1         2         1         1         2         1         1         2		29N	131	11	OI.	<u></u>		ርት	or (n)
00756         29N         13W         11         2         3         35           00310         29N         13W         11         2         3         45           00310         29N         13W         11         4         1         30           00736         29N         13W         14         1         30         30           02307         29N         13W         14         1         30         180           02307         29N         13W         14         1         30         180           02307         29N         13W         14         1         3         180           02307         29N         13W         14         1         3         30           02024         EXPLOR-16         29N         13W         14         2         1           02024         EXPLOR-17	B 1	29N	137	1		m			10
00310         29H         13W         11         2         3         45           00301         29H         13W         11         3         180           002195         29H         13W         14         1         30           02307         29H         13W         14         1         30           02307         29H         13W         14         1         30           02007         29H         13W         14         1         30           02004         EXPLOR-16         29H         13W         14         1         30           02024         EXPLOR-16         29H         13W         14         2         1           02024         EXPLOR-16         29H         13W         14         2         1           02024         EXPLOR-22         29H         13W         14         2         1           02024         EXPLOR-23         29H         13W         14         2         1           02024         EXPLOR-23         29H         13W         14         2         1           02024         EXPLOR-23         29H         13W         14         2 <t< th=""><th></th><th>29N</th><th>13W</th><th>11</th><th></th><th>m</th><th></th><th></th><th>13</th></t<>		29N	13W	11		m			13
00301         29N         13W         11         3           02795         29N         13W         14         4         1         180           02705         29N         13W         14         1         30         180           02307         29N         13W         14         1         3         28         28           03097         29N         13W         14         1         3         28         28           03097         29N         13W         14         1         3         28         28           03024         EXPLOR-16         29N         13W         14         2         1         22         1           02024         EXPLOR-16         29N         13W         14         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         4         2         1         2         1         2         1         2         1         2         1         3         1         2         1         2         1         2         1         3         3         1 <th></th> <th>29N</th> <th>13W</th> <th>11</th> <th></th> <th>m</th> <th></th> <th></th> <th>11</th>		29N	13W	11		m			11
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00716         29N         13W         14         1           02307         29N         13W         14         1         3           02307         29N         13W         14         1         3         18           02302         29N         13W         14         1         4         2           03625         29N         13W         14         1         2         28           02024         EXPLOR-16         29N         13W         14         2         1           02024         EXPLOR-22         29N         13W         14         2         1           02024         EXPLOR-16         29N         13W         14         2         1           02024         EXPLOR-22         29N         13W         14         2         1           02024         EXPLOR-23         29N         13W         14         2         1           02024         EXPLOR-24         29N         13W         14         2         1           02024         EXPLOR-25         29N         13W         14         2         1           02024         EXPLOR-25         29N         13W <t< th=""><th></th><th>29N</th><th>13W</th><th>1</th><th>-Jr</th><th></th><th></th><th>æ</th><th></th></t<>		29N	13W	1	-Jr			æ	
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03625         Colorada Exploration         25N         13W         14         1         4         2         2         2         13W         14         2         1         2         2         3         2         3         <		29N	13W	77	-	m		128	
02024 EXPLOR-16         29N         13W         4         2         1           02024 EXPLOR-16         29N         13W         4         2         1           02024 EXPLOR-22         29N         13W         4         2         1           02024 EXPLOR-10         29N         13W         4         2         1           02024 EXPLOR-22         29N         13W         4         2         1           02024 EXPLOR-3         29N         13W         4         2         1           02024 EXPLOR-3         29N         13W         4         2         1           02024 EXPLOR-16         29N         13W         4         2         1           02024 EXPLOR-16         29N         13W         4         2         1           02024 EXPLOR-16         29N         13W         4         2         1           02024 EXPLOR-26         29N         13W         4         2         1           02024 EXPLOR-25         29N         13W         4         2         1           02024 EXPLOR-26         29N         13W         4         2         1           02024 EXPLOR-27         29N         13W		29N	13W	무	,		H	27	טו
02024 EXPLOR-16         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-22         29N         13W         14         2         1           02024 EXPLOR-21         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-26         29N         13W         14         2         1           02024 EXPLOR-13         29N         13W         14         2         1           02024 EXPLOR-26         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-1         29N         14         2         1           02024 EXPLOR-1         29N         14 <t< th=""><th></th><th>29N</th><th>137</th><th>14</th><th>-</th><th>100</th><th>cil</th><th>୯୨</th><th>30</th></t<>		29N	137	14	-	100	cil	୯୨	30
02024 EXPLOR-16         29N         13W         14         2         1           02024 EXPLOR-22         29N         13W         14         2         1           02024 EXPLOR-21         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-3         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-26         29N         13W         14         2         1           02024 EXPLOR-13         29N         13W         14         2         1           02024 EXPLOR-26         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-1         29N         14         2         1           02024 EXPLOR-1         29N         13W <t< th=""><th>02024</th><th>29N</th><th>13W</th><th>14</th><th>OI.</th><th>Ξ</th><th>1</th><th>12</th><th>√1"</th></t<>	02024	29N	13W	14	OI.	Ξ	1	12	√1"
02024 EXPLOR-22         29N 13W 14         2 1 1           02024 EXPLOR-10         29N 13W 14         2 1 1           02024 EXPLOR-21         29N 13W 14         2 1 1           02024 EXPLOR-23         29N 13W 14         2 1 1           02024 EXPLOR-23         29N 13W 14         2 1 1           02024 EXPLOR-3         29N 13W 14         2 1 1           02024 EXPLOR-17         29N 13W 14         2 1 1           02024 EXPLOR-14         29N 13W 14         2 1 1           02024 EXPLOR-25         29N 13W 14         2 1 1           02024 EXPLOR-26         29N 13W 14         2 1 1           02024 EXPLOR-2         29N 13W 14         2 1 1           02024 EXPLOR-2         29N 13W 14         2 1 1           02024 EXPLOR-2         29N 13W 14         2 1 1           02024 EXPLOR-3         29N 13W 14         2 1 1           02024 EXPLOR-1         29N 13W 14         2 1 1	02024	29N	13W	14	cı.	Ξ	1	12	খ্য
02024 EXPLOR-10         29N 13W 14         2 1 1           02024 EXPLOR-21         29N 13W 14         2 1 1           02024 EXPLOR-23         29N 13W 14         2 1 1           02024 EXPLOR-23         29N 13W 14         2 1 1           02024 EXPLOR-3         29N 13W 14         2 1 1           02024 EXPLOR-17         29N 13W 14         2 1 1           02024 EXPLOR-14         29N 13W 14         2 1 1           02024 EXPLOR-25         29N 13W 14         2 1 1           02024 EXPLOR-20         29N 13W 14         2 1 1           02024 EXPLOR-20         29N 13W 14         2 1 1           02024 EXPLOR-2         29N 13W 14         2 1 1           02024 EXPLOR-2         29N 13W 14         2 1 1           02024 EXPLOR-1         29N 14         2 1 1	02024	29N	1314	જ	OI.	_		12	*11
02024 EXPLOR-15         29N         13W         14         2         1           02024 EXPLOR-21         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-13         29N         13W         14         2         1           02024 EXPLOR-20         29N         13W         14         2         1           02024 EXPLOR-20         29N         13W         14         2         1           02024 EXPLOR-20         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-1         29N         13W         14         2         1	02024	298	13W	14	OI.	_		12	খ
02024 EXPLOR-21         29N         13W         14         2         1           02024 EXPLOR-23         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-17         29N         13W         14         2         1           02024 EXPLOR-16         29N         13W         14         2         1           02024 EXPLOR-25         29N         13W         14         2         1           02024 EXPLOR-20         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-1         29N         14         2         1           1         2         1         2 <t< th=""><th>02024</th><th>N6E</th><th>13W</th><th>₹#  -</th><th>61</th><th>_</th><th></th><th>14</th><th>寸</th></t<>	02024	N6E	13W	₹#  -	61	_		14	寸
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02024 EXPLOR-25         29h         13W         14         2 l         1           02024 EXPLOR-13         25h         13W         14         2 l         1           02024 EXPLOR-20         29h         13W         14         2 l         1           02024 EXPLOR-3         29h         13W         14         2 l         1           02024 EXPLOR-11         29h         13W         14         2 l         1           02024 EXPLOR-12         29h         13W         14         2 l         1           02024 EXPLOR-5         29h         13W         14         2 l         1           02024 EXPLOR-5         29h         13W         14         2 l         1	02024	<b>29N</b>	13N	=;# ;=1	cı.	_	П	12	7
02024 EXPLOR-13         25N         13W         14         2         1           02024 EXPLOR-20         29N         13W         14         2         1           02024 EXPLOR-2         29N         13W         14         2         1           02024 EXPLOR-1         29N         13W         14         2         1           02024 EXPLOR-1         29N         13W         14         2         1           02024 EXPLOR-5         29N         13W         14         2         1           02024 EXPLOR-5         29N         13W         14         2         1	02024	29N	13W	<b>⊢</b> 1	N	_		12	-th
02024 EXPLOR-20         29h         13W         14         2 l         1           02024 EXPLOR-2         29h         13W         14         2 l         1           02024 EXPLOR-11         29h         13W         14         2 l         1           02024 EXPLOR-12         29h         13W         14         2 l         1           02024 EXPLOR-15         29h         13W         14         2 l         1           02024 EXPLOR-5         29h         13W         14         2 l         1	02024	NEC	13W	44	N	_	н	12	걕
02024 EXPLOR-2         29h         13W         14         2 l         1           02024 EXPLOR-9         29h         13W         14         2 l         1           02024 EXPLOR-11         29h         13W         14         2 l         1           02024 EXPLOR-19         29h         13W         14         2 l         1           02024 EXPLOR-5         29h         13W         14         2 l         1	02024	29N	13W	말	Cil	_	н	12	<1°
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02024 EXPLOR-11         29H 13W 14         2 1 1         1           02024 EXPLOR-19         29H 13W 14         2 1 1         1           02024 EXPLOR-5         29H 13W 14         2 1 1         1	02024	29N	13W	년 년	OI.	1	r-I	12	겍
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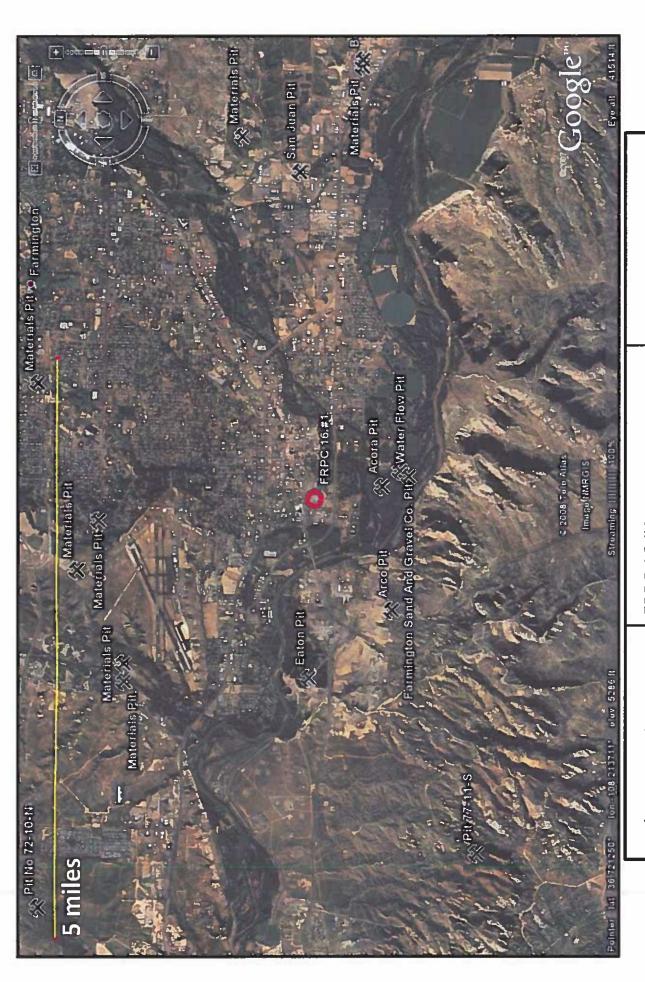
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**Aerial Photograph** 

Lodestar Services, Inc Durango, CO 81302 PO Box 4465

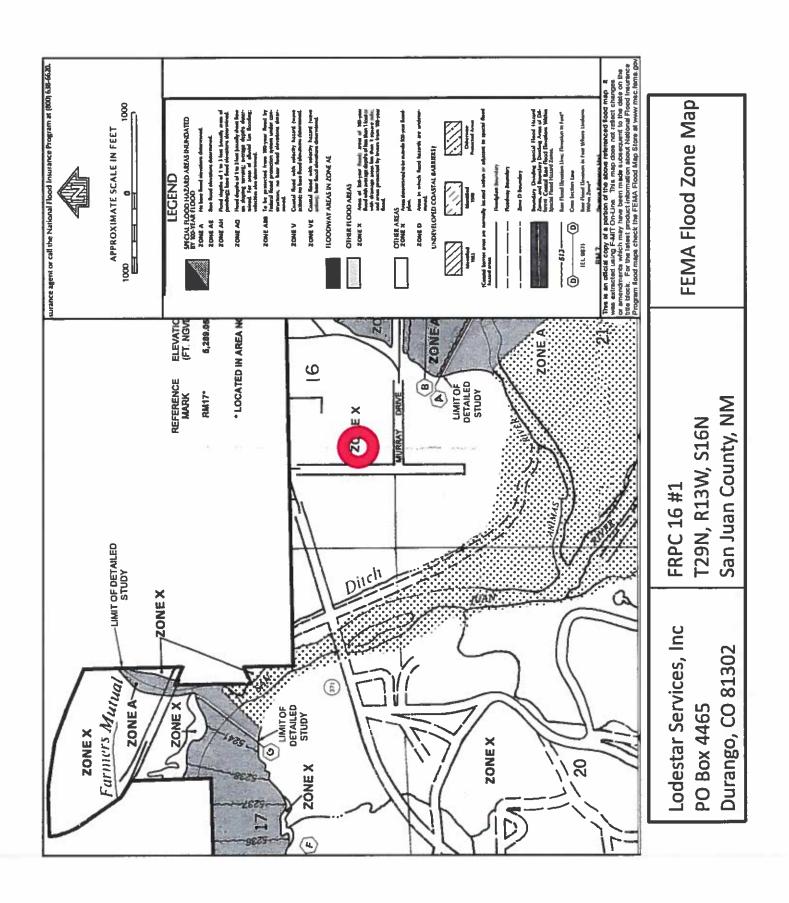
San Juan County, NM FRPC 16 #1 T29N, R13W, S16N



Lodestar Services, Inc PO Box 4465 Durango, CO 81302

San Juan County, NM T29N, R13W, S16N FRPC 16 #1

Mines, Mills, and Quarries Map



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

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

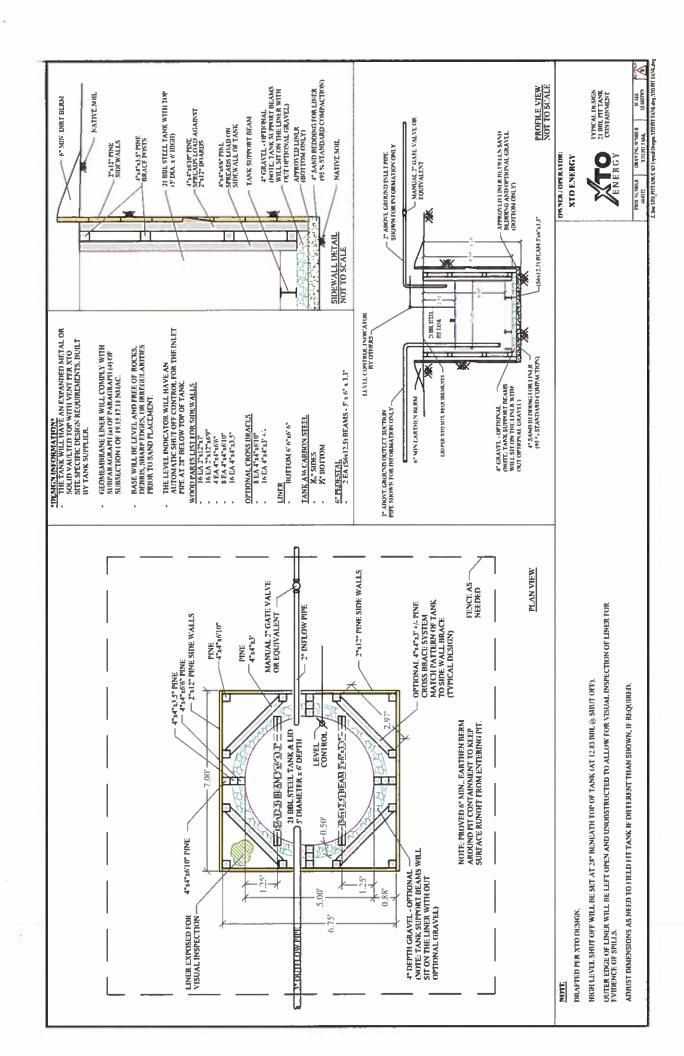
# General Plan

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

- 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.

MONTHLY BELOW GRADE TANK INSPECTION FORM	API No.:	Sec: Township:	tion Inspection Ine Item Any visible signs of Surface Visible layer Any visible signs of Surface Visible layer Any visible signs of Surface Visible layer Any visible signs Freeboard Free						Provide Detailed Description:			
MONTHLY BELOW G			Any visible liner tears (Y/N)						ailed Description:			
	Well Name:	Legals	XTO Inspection Name Date						Notes: Provide Det	Misc:		

# 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 1 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.

Lowe, Leonard, EMNRD

"Hixon, Logan"

McDaniel, James: Hoekstra, Kurt; Farnsworth, Rex: Griswold, Jim, EMNRD: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD: Billings, Bradford, EMNRD Cc:

Subject: XTO 3 BGT C-144 closure approval Date: Tuesday, April 26, 2016 3:53:00 PM

Attachments: image001.png

Importance: Hiah

Mr. Hixon.

OCD has approved closure of BGT at the following:

TXTO\_3004508004.pdf TXTO\_3004525886.pdf TXTO\_3004533328.pdf

Copies of the approved C-144's will be located on the OCD's website, located in their specific API numbers: http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx

Thank you,

# **Leonard Lowe**

Engineering Bureau Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St. Frances Santa Fe, New Mexico 87004 Office: 505-476-3492

Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us

Website: <a href="http://www.emnrd.state.nm.us/ocd/">http://www.emnrd.state.nm.us/ocd/</a>

From: Hixon, Logan [mailto:Logan\_Hixon@xtoenergy.com]

Sent: Monday, February 15, 2016 10:28 AM

To: Lowe, Leonard, EMNRD < Leonard.Lowe@state.nm.us>

Cc: McDaniel, James < James\_McDaniel@xtoenergy.com>; Hoekstra, Kurt < Kurt\_Hoekstra@xtoenergy.com>; Farnsworth, Rex

<Rex\_Farnsworth@xtoenergy.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Smith, Cory, EMNRD

<Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Subject: 2016-2-15 Request for Approved Closure Plans Only

# Good Morning Mr. Lowe,

We are requesting an approved closure plan only for the following sites regardless of size:

Well Name	Well #	API	Sec	Tns	Rng	Latitude	Longitude	Date Submitted
CALPINE SWD	1	3004509068	33B	30N	13W			C-144 Submitted 12/12/08
CANYON	20E	3004529684	13J	25N	11W	36.39796	107.95227	C-144 Submitted 12/12/08
CHAVEZ GAS COM B	1	3004508004	231	29N	10W	36.70973	107.85861	C-144 Submitted 12/12/08
CLOYD COOPER	1	3004525886	15G	29N	11W	36.72789	107.97491	C-144 Submitted 12/12/08
FRPC 16	1	3004533328	16N	29N	13W			C-144 Submitted 12/12/08
GALLEGOS	8	3004521317	34M	26N	11W	36.43983	107.99682	C-144 Submitted 12/12/08
MARTINEZ GAS COM G	1G	3004531256	24G	29N	10W	36.71278	107.83417	C-144 Submitted 12/12/08
HAMPTON D	1	3004509759	26A	30N	11W	36.78805	107.95388	C-144 Submitted 12/12/08
MASDEN GAS COM	1E	3004524003	28D	29N	11W	36.7008	108.00131	C-144 Submitted 12/12/08
ABRAMS GAS COM E	1E	3004524733	30M	29N	10W	36.69193	107.931	C-144 Submitted
BEAVER LODGE COM	2A	3004523048	36C	31N	11W	36.86023	107.94635	C-144 Submitted
BEAVER LODGE COM	2R	3004521959	36A	31N	11W	36.85917	107.93595	C-144 Submitted

CALDWELL A	1	3004505674	27J	26N	11W	36.45681	107.98858	C-144 Submitted
CAMPBELL 26	1	3004530531	26N	27N	12W	36.54073	108.08324	C-144 Submitted
CAMPBELL 26	2	3004530532	26A	27N	12W	36.55069	108.07542	C-144 Submitted
DAVIDSON GAS COM F	1F	3004533556	28K	28N	10W	36.630861	107.902583	C-144 Submitted
DAVIDSON GAS COM G	2	3004532538	211	28N	10W	37.145278	107.8925	C-144 Submitted
DAVIDSON GAS COM G	1G	3004533412	21A	28N	10W	36.652639	107.894222	C-144 Submitted
DAVIDSON GAS COM H	1F	3004533644	22E	28N	10W	36.650556	107.888222	C-144 Submitted
DAWSON A	1F	3004531123	04F	27N	8W	36.60611	107.68972	C-144 Submitted
E H PIPKIN	18	3004525144	12M	27N	11W	36.58531	107.961	C-144 Submitted
E H PIPKIN	22	3004525155	35N	28N	11W	36.61398	107.97518	C-144 Submitted
E H PIPKIN	25	3004525157	36L	28N	11W	36.61636	107.95995	C-144 Submitted
E H PIPKIN	29	3004528547	35N	28N	11W	36.6143	107.97592	C-144 Submitted
E H PIPKIN	30	3004528546	12G	27N	11W	36.59216	107.9521	C-144 Submitted
E H PIPKIN	31	3004529774	35H	28N	11W	36.61912	107.96546	C-144 Submitted
E H PIPKIN	33	3004532031	01F	27N	11W	36.60611	107.9575	C-144 Submitted
E H PIPKIN	34	3004532032	12J	27N	11W	36.5875	107.95167	C-144 Submitted
E H PIPKIN	35	3004532030	12E	27N	11W	36.59306	107.95972	C-144 Submitted
E H PIPKIN	36	3004534103	35D	28N	11W	36.62247	107.97994	C-144 Submitted
E H PIPKIN	37	3004532036	35I	28N	11W	36.61556	107.96639	C-144 Submitted
E H PIPKIN	38	3004532040	36E	28N	11W	36.62	107.96194	C-144 Submitted
E H PIPKIN	8R	3004531148	01L	27N	11W	36.60194	107.96056	C-144 Submitted
E H PIPKIN 36	2	3004527552	36B	28N	11W	36.623018	107.951065	C-144 Submitted
O H RANDEL	14	3004532909	09L	26N	11W	36.499444	108.014444	C-144 Submitted
VALENCIA CANYON UNIT	40B	3003929604	35K	28N	4W	36.616111	107.221389	C-144 Submitted
BOLACK C	16A	3004526662	331	27N	8W	36.52633	107.68119	C-144 Submitted 01/09/09
UTE INDIANS A	33	3004530490	03A	31N	14W	36.92415	108.27254	C-144 Submitted 01/16/09
BERGER A	2S	3004532985	21P	26N	11W	36.46814	108.00313	C-144 Submitted 11/21/08
COOLIDGE	2	3004531221	22D	30N	14W	36.80399	108.30226	C-144 Submitted 11/21/08
DAY GAS COM A	1R	3004530036	181	28N	10W	36.65994	107.93088	C-144 Submitted 11/21/08
EATON WHITE	1	3004508097	20F	29N	13W	36.715253	108.232111	C-144 Submitted 11/21/08
GALLEGOS FEDERAL 26 13 1	1	3004528881	01B	26N	13W	36.52222	108.16731	C-144 Submitted 11/21/08
HANCOCK	10	3004506930	01A	27N	12W	36.60869	108.05743	C-144 Submitted 11/21/08
HOOVER	2	3004531220	21A	30N	14W	36.80466	108.30876	C-144 Submitted 11/21/08
RPC 17	3	3004530938	17M	29N	13W	36.722194	108.2355	C-144 Submitted 12/05/08
STATE GAS COM M	1A	3004522765	161	31N	12W	36.8954	108.0954	C-144 Submitted 12/05/08
UTE INDIANS A	15	3004523501	36E	32N	14W	36.94685	108.26522	C-144 Submitted 12/05/08
JOHNSON GAS COM B	1	3004513043	21H	27N	10W	36.56339	107.89428	C-144 Submitted 12/12/08

Thank you for the help and have a good day!

# Thank You!

**XTO ENERGY INC.**, an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018 Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Logan\_Hixon@xtoenergy.com

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