## District 1 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

1220 S. St. Francis Dr., Santa Fe, NM 87505

2009 JAN 20

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 Spate For Engineering Parent of For and

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

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

	Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Existing BGT	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
BGT1		Modification to an existing permit
		Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	below-grade tanl	c, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinan

I.  Operator: XTO Energy, Inc.  OGRID #: 5380
A 11 (1999 G
Facility or well name: _ Ute Mountain Gas Com M #2
API Number: 30-045-30488 OCD Permit Number:
U/L or Qtr/Qtr C Section 11 Township 31N Range 14W County: San Juan
Center of Proposed Design: Latitude 36.920000 Longitude 108.280560 NAD: ☐1927 ☑ 19.
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary:  Drilling  Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC   Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice intent)   Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
4.
Volume: 120bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thicknessmil
☐ Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approva
Form C-144 Oil Conservation Division Page 1 of 5

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, schoinstitution 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	
n.  Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☒ OtherExpanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☑ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bure consideration of approval.	au office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
ion.  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 act material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the applice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration a  Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to debove-grade tanks associated with a closed-loop system.	propriate district of approval. rying pads or
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes V
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 ☐ 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 ☐ ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock vatering 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 ⊠
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance idopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠
Vithin an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes 🏻
Vithin a 100-year floodplain.  - FEMA map	☐ Yes 🛛
Vithin an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  - FEMA map  Form C-144  Oil Conservation Division  Page 2 o	☐ Yes ⊠

Temporary Plis. Surveysers Plis. and Selow-grade Tanks Permit Anolication Attachment Checkillis: Subsection B of 19.15.17.9 PMAC Intersections: Each of the following times surve to attached: the application is the application. Perviewally 10.9 Subsection B of 19.15.17.9 NMAC Subsection B of 19.15.17.9 PMAC Subsection B of 19.15.17.1 PMAC Subsection Subsection Control Subsection	11.		
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Pangraph (a) of Subsection B of 19.15.17.9 NMAC	Instructions: Each of the following items must b		
Previously Approved Design (attach copy of design)	<ul> <li>☒ Hydrogeologic Report (Below-grade Tanks)</li> <li>☐ Hydrogeologic Data (Temporary and Emerg</li> <li>☒ Siting Criteria Compliance Demonstrations</li> <li>☒ Design Plan - based upon the appropriate rec</li> <li>☒ Operating and Maintenance Plan - based upon</li> <li>☒ Closure Plan (Please complete Boxes 14 three</li> </ul>	gency Pits) - based upon the requirements of Par - based upon the appropriate requirements of 19 quirements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.17.12	ragraph (2) of Subsection B of 19.15.17.9 NMAC 0.15.17.10 NMAC NMAC
Closed-loog Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following timen surs be attacked to the application. Please indicate, by a check mark in the bax, that the documents are attacked.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 NMAC  Geologic and Hydrogeologic Data (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  Closure Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18,1 rapplicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NM 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 bias and propose to implement waste removal for closure)  State of the pillowing items must be attacked to the application. Please indicate, by a check mark in the box, that the documents are attacked.  API Number:  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Pactors - 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  Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Climatological Pactors - Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Dividence of Planse - based upon the appropriate requirements of 19.15.17.11 NMAC  Climatological Pactors Assessment  Certified Engineering Desig		lesign) API Number:	or Permit Number:
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9	Closed-loop Systems Permit Application Attach		
Previously Approved Operating and Maintenance Plan	Geologic and Hydrogeologic Data (only for Siting Criteria Compliance Demonstrations Design Plan - based upon the appropriate re Operating and Maintenance Plan - based up Closure Plan (Please complete Boxes 14 thr	(only for on-site closure) - based upon the apprequirements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.17.12	opriate requirements of 19.15.17.10 NMAC  NMAC
Description	Previously Approved Design (attach copy of d	lesign) API Number:	
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 19.15.17.19 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assessment - Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assessment - Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assessment - Dased upon the appropriate requirements of 19.15.17.11 NMAC   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assessment - Dased upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assumence Construction and Installation Plan   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Quality Control/Quality Assumence Construction and Installation Plan   Dased 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   Dased upon the appropriate requirements of 19.15.17.13 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Closure Plan - based upon the appropriate requirements of 19.15.17.19 NMAC and 19.15.17.13 NMAC   Proposed Closure: 19.15.17.13 NMAC   Operating and Maintenance Plan - Dased upon the appropriate requirements of Subsection Plan   Proposed Closure: 19.15.17.13 NMAC   Operating and Plan (Engineering and Plan (Enginee	Previously Approved Operating and Maintena	nce Plan API Number:	(Applies only to closed-loop system that use
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 19.15.17.10 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC   Cilimatological Factors Assessment	above ground steel tanks or haul-off bins and prop	pose to implement waste removal for closure)	
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   Emergency Response Plan   Oil Field Waste Stream Characterization   Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 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   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)   Maste Excavation and Removal Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)   Maste 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 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   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	Instructions: Each of the following items must be attached.  Hydrogeologic Report - based upon the required Siting Criteria Compliance Demonstrations Climatological Factors Assessment Certified Engineering Design Plans - based Dike Protection and Structural Integrity Design Leak Detection Design - based upon the applications and Compatibility Assembly Quality Control/Quality Assurance Constructions	uirements of Paragraph (1) of Subsection B of I - based upon the appropriate requirements of 19.15.17. sign - based upon the appropriate requirements of propriate requirements of 19.15.17.11 NMAC essment - based upon the appropriate requirements of 19.15.17.11 NMAC essment - based upon the appropriate requirements of 19.15.17.11 NMAC	9.15.17.9 NMAC 9.15.17.10 NMAC 11 NMAC of 19.15.17.11 NMAC ents of 19.15.17.11 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.	Freeboard and Overtopping Prevention Plan  Nuisance or Hazardous Odors, including H <sub>2</sub> Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan	n - based upon the appropriate requirements of les, Prevention Plan	9.15.17.11 NMAC
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)  IS.  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 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	Proposed Closure: 19.15.17.13 NMAC		
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)  S.  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	1000	91	
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 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	☐ Alternative  Proposed Closure Method: ☐ Waste Excavation ☐ Waste Removal ( ☐ On-site Closure M ☐ In-place	and Removal Closed-loop systems only) lethod (Only for temporary pits and closed-loop ce Burial  On-site Trench Burial	o systems)
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 ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		e Method (Exceptions must be submitted to the	
Form C-144 Oil Conservation Division Page 3 of 5	Waste Excavation and Removal Closure Plan Colosure plan. Please indicate, by a check mark in Protocols and Procedures - based upon the a Confirmation Sampling Plan (if applicable)  Disposal Facility Name and Permit Number Soil Backfill and Cover Design Specificatio Re-vegetation Plan - based upon the appropriate construction of the confirmation of the property of the confirmation of	the box, that the documents are attached.  appropriate requirements of 19.15.17.13 NMAC  - based upon the appropriate requirements of Societies (for liquids, drilling fluids and drill cuttings) and a based upon the appropriate requirements of riate requirements of Subsection I of 19.15.17.1	Each of the following items must be attached to the cubsection F of 19.15.17.13 NMAC  f Subsection H of 19.15.17.13 NMAC  3 NMAC  17.13 NMAC
	Form C-144	Oil Conservation Division	Page 3 of 5
			Each of the following items must be attached to the cubsection F of 19.15.17.13 NMAC  f Subsection H of 19.15.17.13 NMAC  13 NMAC  17.13 NMAC  Page 3 of 5

	lities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	more than two
facilities are required.	Disposal Facility De 14 M. J.	
Disposal Facility Name:  Disposal Facility Name:		
	ations and associated activities occur on or in areas that will not be used for future ser	· · · · · · · · · · · · · · · · · · ·
Yes (If yes, please provide the information by	below) No	vice and operation
Re-vegetation Plan - based upon the appropriate Site Reclamation Plan - based upon the appropriate Reclamation Pla	d for future service and operations:  ns based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA riate requirements of Subsection I of 19.15.17.13 NMAC ropriate requirements of Subsection G of 19.15.17.13 NMAC	.c
provided below. Requests regarding changes to c	onstration of compliance in the closure plan. Recommendations of acceptable sou vertain siting criteria may require administrative approval from the appropriate dist I to the Santa Fe Environmental Bureau office for consideration of approval. Just	trict office or may
Ground water is less than 50 feet below the bottom - NM Office of the State Engineer - iWATE	of the buried waste. RS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the - NM Office of the State Engineer - iWATE	e bottom of the buried waste RS database search; USGS; Data obtained from nearby wells	Yes No
-	RS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercot ake (measured from the ordinary high-water mark)  - Topographic map; Visual inspection (certif		☐ Yes ☐ No
Within 300 feet from a permanent residence, school - Visual inspection (certification) of the prop	ol, hospital, institution, or church in existence at the time of initial application. posed site; Aerial photo; Satellite image	☐ Yes ☐ No
watering purposes, or within 1000 horizontal feet o	resh water well or spring that less than five households use for domestic or stock of any other fresh water well or spring, in existence at the time of initial application. RS database; Visual inspection (certification) of the proposed site	Yes No
adopted pursuant to NMSA 1978, Section 3-27-3, a	n a defined municipal fresh water well field covered under a municipal ordinance as amended. he municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification	on 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	p from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the Society; Topographic map	e design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
y a check mark in the box, that the documents ar  Siting Criteria Compliance Demonstrations - Proof of Surface Owner Notice - based upon Construction/Design Plan of Burial Trench ( Construction/Design Plan of Temporary Pit ( Protocols and Procedures - based upon the ap Confirmation Sampling Plan (if applicable) - Waste Material Sampling Plan - based upon Disposal Facility Name and Permit Number ( Soil Cover Design - based upon the appropri	MAC) Instructions: Each of the following items must be attached to the closure place attached.  - based upon the appropriate requirements of 19.15.17.10 NMAC  - the appropriate requirements of Subsection F of 19.15.17.13 NMAC  (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  - ppropriate requirements of 19.15.17.13 NMAC  - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  the appropriate requirements of Subsection F of 19.15.17.13 NMAC  (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannuate requirements of Subsection H of 19.15.17.13 NMAC  iate requirements of Subsection I of 19.15.17.13 NMAC  opriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC
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Name (Print): Kim Champlin		E217 .c. 62 7 M	
1. 1	Title:	Environmental Repr	esentative
Signature: Nim Champlin	Date:0	1/05/2009	
OCD Approval: X Permit Application (including closure plan)  Victoria Venegas CCD Representative Signature:			
Environmental Specialist	OCD Permit Number	r:BGT1	211
is.  Closure Report (required within 60 days of closure completion):  Instructions: Operators are required to obtain an approved closure  The closure report is required to be submitted to the division within to  section of the form until an approved closure plan has been obtained	plan prior to implementing any cl 60 days of the completion of the cl d and the closure activities have be	osure activities and si osure activities. Plea	
2.  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
3. Closure Report Regarding Waste Removal Closure For Closed-loc	on Systems That Utiliza Above C	round Steel Tanks o	r Haul-off Rine Only
Instructions: Please indentify the facility or facilities for where the liwo facilities were utilized.			
Disposal Facility Name:			· · · · · · · · · · · · · · · · · · ·
Disposal Facility Name:			
Were the closed-loop system operations and associated activities performers. Yes (If yes, please demonstrate compliance to the items below)		used for future servi	ce and operations?
Required for impacted areas which will not be used for future service  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	and operations:		
Closure Report Attachment Checklist: Instructions: Each of the finark 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-si  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)	ite closure)		
On-site Closure Location: Latitude	Longitude	NAD:	1927 🗌 1983
5.		nd complete to the be	
Operator Closure Certification: hereby certify that the information and attachments submitted with the elief. I also certify that the closure complies with all applicable closure (Print):	ure requirements and conditions spe	ecified in the approve	·
hereby certify that the information and attachments submitted with the elief. I also certify that the closure complies with all applicable closure (Print):	ure requirements and conditions spe	ecified in the approve	
hereby certify that the information and attachments submitted with the elief. I also certify that the closure complies with all applicable closure (Print):	ure requirements and conditions spo	ecified in the approved	
hereby certify that the information and attachments submitted with the elief. I also certify that the closure complies with all applicable closure (Print):	ure requirements and conditions spo	ecified in the approve	
hereby certify that the information and attachments submitted with the elief. I also certify that the closure complies with all applicable closure (Print):  Signature: mail address:	ure requirements and conditions spo	ecified in the approved	·

District I PO 8ox 1980, Hobbs, NM 88241—1980 State of New Mexico Form C-102 Revised February 21, 1994 Energy, Minerals & Natural Resources Department Instructions on back District II PO Drawer DD, Artesia, NM 88211-0719 Submit to Appropriate District Office State Lease - 4 Copies OIL CONSERVATION DIVISION Fee Lease - 3 Copies PO Box 2088 District III 1900 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87504-2088 AMENDED REPORT PO Box 2088, Santa Fe, NM 87504-2088 FLITSE WELL LOCATION AND ACHÉAGE DEDICATION PLAT 'API Number 'Pool Code Pool Name 30045-30488 86720 UTE DOME DAKOTA Property Code Property Name Well Number UTE MOUNTAIN GAS COM M 2 OGRID No. Elevation \*Operator Name 167067 CROSS TIMBERS OPERATING COMPANY 5826 <sup>10</sup> Surface Location UL or lot no. Lot Ion Feet from the North/South line Feet from the East/Nest line County 11 31N 14W 525 2030 WEST NORTH SAN JUAN 11 Bottom Hole Location From Surface Different Ut or lot no. Section North/South line Feet from the Feet from the East/West line County В 31N 14W NORTH EAST NAUL NAS 2485 Joint or Infill Maconsolidation Code Dedicated Acres is Order No. WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED 5280.00. OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5280.001 76 17 OPERATOR CERTIFICATION 2797 I hereby contify that the information contained merson is true and complete to the best of my knowledge and telse! BOTTOM-HOLE LOCATION 2030' SURFACE LOCATION Signature, Jeff Patton Printed Name Production Engineer Project Proation Unit
340 Acre

- Can Intell Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this old was glotted from field notes of actual surveys made by re or under my supervision, and that the same is true and current to the best of my belief. '11 Pule NMOCD REVISED: DECEMBER 6, 2000 AUGUST 23, 2000 Date of Survey 6857 5280.001 6B57

A	no be		Client:	XTO Energy
Lodestar Service			Project:	tank permitting
	Siting Criteria		Revised:	17-Dec-08
V			Prepared by:	Trevor Ycas
API#:	3	0-045-30488	USPLSS:	31N 14W 11 C
Name: U	ITE MOUNTA	IN GAS COM M No. 002	Lat/Long:	36.920000°, -108.280560°
		1 1 .50	Geologic	
Depth to groundwater:		depth <50'	formation:	Menefee Formation (Kmf)
Distance to closest continuously flowing watercourse:	5.2 miles	E to 'La Plata River'	site elevation: 1772m/5814'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:		W to 'Barker Arroyo' mittent stream)		
			Soil Type:	Alluvial Valley Fill; Entisol / Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
			Annual Precipitation:	Shiprock: 6.90", Fruitland: 7.38", Farmingto (FAA): 8.21"
Domestic fresh water well or spring within 500'		МО	Precipitation Notes:	Historical daily max. precip.: 2.9" (Shiprock)
Any other fresh water well or spring within 1000'		NO		
Within incorporated municipal boundaries		NO	Attached Documents:	31N13W_IWaters.pdf, 31N14W_IWaters.pdf, 31N15W_iWaters.pdf, 32N13W_IWaters.pdf, 32N14W_Iwaters.pdf, 32N15W_iwaters.pdf, 33N13W_iWaters.pdf, 33N14W_IWaters.pdf, 33N15W_IWaters.pdf
Within defined municipal fresh water well field		NO		30-045-30488_gEarth-iWaters.jpg, 30-045- 30488_gEarth-PLS.jpg, 30-045-30488_topo-PLS.jpg
Wetland within 500'	e	NO	Mining Activity:	None Near
Within unstable area		по	generic mining coal mining boundaries map	NM_NRD-MMD_MinesMillQuarries_30-045-30488.jp NM_NRD-MMD_UTE_COALBNDS_prox.jpg
Within 100 year flood plain	unmapped	area: see note below		
Additional Notes:			9-12-136-13	
rains to 'La Plata River'				

## UTE MOUNTAIN GAS COM M No. 002, Below Grade Tank Hydrogeologic Report for Siting Criteria

## General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The proposed below ground tank location will be located in the northwest corner of the San Juan Basin, where the Hogback monocline ends. Thicker sequences common throughout the central basin begin to pinch out and older units of Cretaceous Age are exposed, specifically the Menefee Formation and Cliff House Sandstone (Brister and Hoffman, 2002). The resistant Cliff House sandstones form prominent cliff bands, while shales and smaller sandstones of the Menefee Formation are exposed at lower elevations. The stratigraphic section reflects deposition in a coastal plain environment and consists of gray, brownish and tank sandstone interbedded with dark, carbonaceous shales and coal beds. 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). Within the Menefee Formation, thinner confining units that consist of shale, as well as coal and thick sandstone beds, are present. In general, the water from Cretaceous aquifers is minimal (less than 5 gpm), although moderate quantities (5-25 gpm) may be supplied from aquifers within the Menefee Formation (Stone et al., 1983). Aquifer depths range from very shallow depths to over 6000 feet below ground surface. 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 are entisols and alluvial valley fill, which are basically little to no soils that do not show any profile development. Soils that are present are 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 the soils that cover the area and prohibits effective recharge to the underlying aquifers.

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

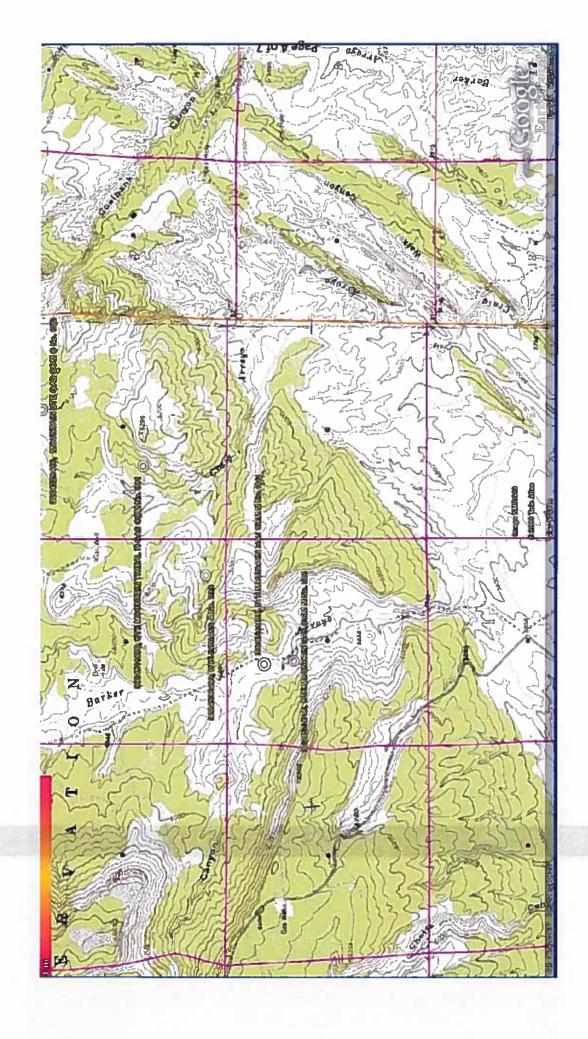
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

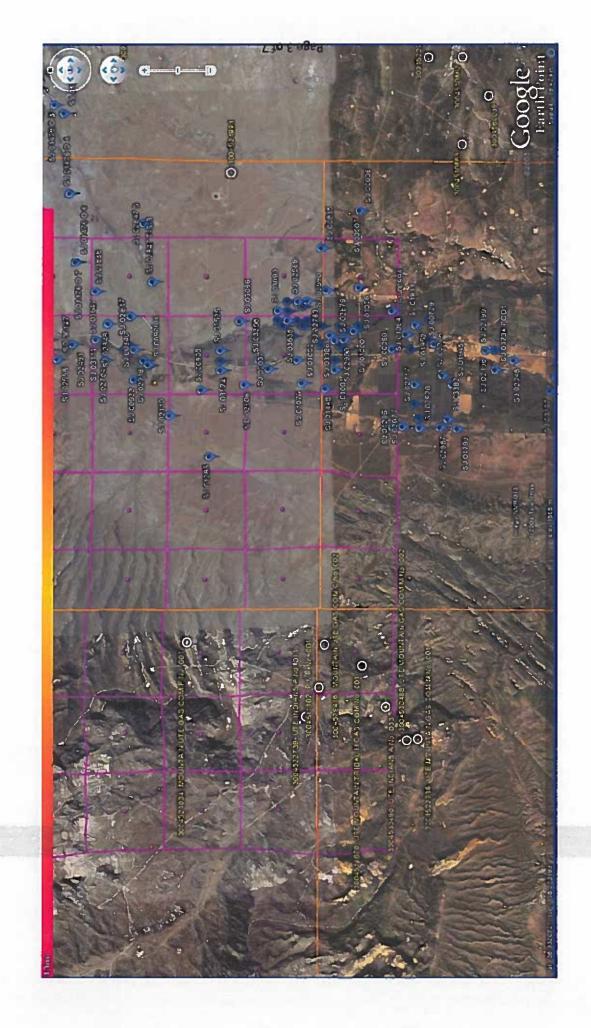
## Site Specific Hydrogeology

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 Menefee Formation, which range from shallow depths to over 6000 feet deep in this area (Stone et al., 1983). The site in question is located near the base of Barker Arroyo, approximately 150 feet away from outcropping sandstones that are over 50 feet higher in elevation. 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. 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 are clustered near populated areas along the La Plata River east of the proposed site. These sites contain shallow groundwater, but topographic and hydrographic conditions are not representative of the site in question. Rather, the surrounding geology and topography must be used to estimate depth to groundwater. The base of the Barker Arroyo is less than 10 feet lower in elevation than the proposed site. Therefore, enough uncertainty exists to estimate groundwater to be less than 50' deep.





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		County:	Owner Name:		

# WATER COLUMN REPORT 08/11/2008

Dapth Water Depth Well (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q POD Number

Water (in feet) Column

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# WATER COLUMN REPORT 08/11/2008

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SJ 01439	32N	13₩	10	4.3					45	25	20		
SJ 02068	32N	13W	15	2					45	16	29		
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SJ 02985	32N	13W	15	2 1	2				47	25	22		
sJ 02350	32N	13%	15	2 3	-				26				
8J 02865	32N	13W	15	2 3	7				44	29	15		
SJ 02558	32N	13W	15	3 2	4				41	23	18		
SJ 02934	32N	13W	15	4 1	H				34	18	16		
SJ 02890	32N	13W	15	4 1	7				52	30	25		
8J 02705	32N	13W	22	1 4	2				25	12	13		
SJ 02704	32N	13W	22	1 4	2				25	12	13		
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SJ 02918	32N	13%	22	3.4	2				51	30	21		
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	Ň	County:	Owner Name:		

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SJ 02879	31N	13W	03	2 3	~				30				
SJ 03137	31N	13W	03	2 3	۳				50				
SJ 02990	31N	13W	03	2 3	4				100	22	78		
SJ 01295	31N	13W	60	2 1	<b>—</b>				230	180	50		
SJ 02977	31N	13W	60	2 1	ന				325	124	201		
SJ 02920	31N	13W	60	2 3	m				85				
SJ 02755	31N	13W	60	2 3	4				09	40	20		
SJ 02987	31N	13W	60	4 1	m				250	87	163		
SJ 03382	31N	13W	60	4 3	7				50				
SJ 02717	31N	13W	10	1 3					42	22	20		
SJ 01094	31N	13W	10	2					130	09	7.0		
SJ 00798	31N	13W	10	2					125	65	09		
SJ 00089	31N	13W	10	2 1	_				80	18	62		
SJ 01952	31N	13W	10	2 4					16	9	10		
SJ 01944	31N	13W	10	2 4					20	4	16		
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83 02724	31N	13W 2	80	4	01	m	40
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8J 03283	30N	13W	0.5	2	2				20	80	12		
SJ 00132	30N	13W	05	3	4.				100	46	54		
SJ 01101	30N	13W	08	-					41	26	15		
SJ 03326	30N	13W	08	1	m				55	30	25		
SJ 00328	30N	13W	08	7					33	21	12		
8J 02268	30N	13W	80	7					30	21	6		
8J 01463	30N	13W	80	7					52	30	22		
SJ 00877	30N	13W	80	7					09	30	30		
SJ 00293	30N	13W	90	2					50	30	20		
8J 00855	30N	13W	08	2					50	25	25		
87 01068	30N	13W	0.8	2					53	28	25		
8J 02326	30N	13W	80	2	m				42	35	7		
SJ 02735	30N	13W	08	2	4				43	23	20		
8J 00587	30N	13W	80	3	2				72	48	24		
SJ 03195	30N	13W	80	4	Н.				09	35	25		
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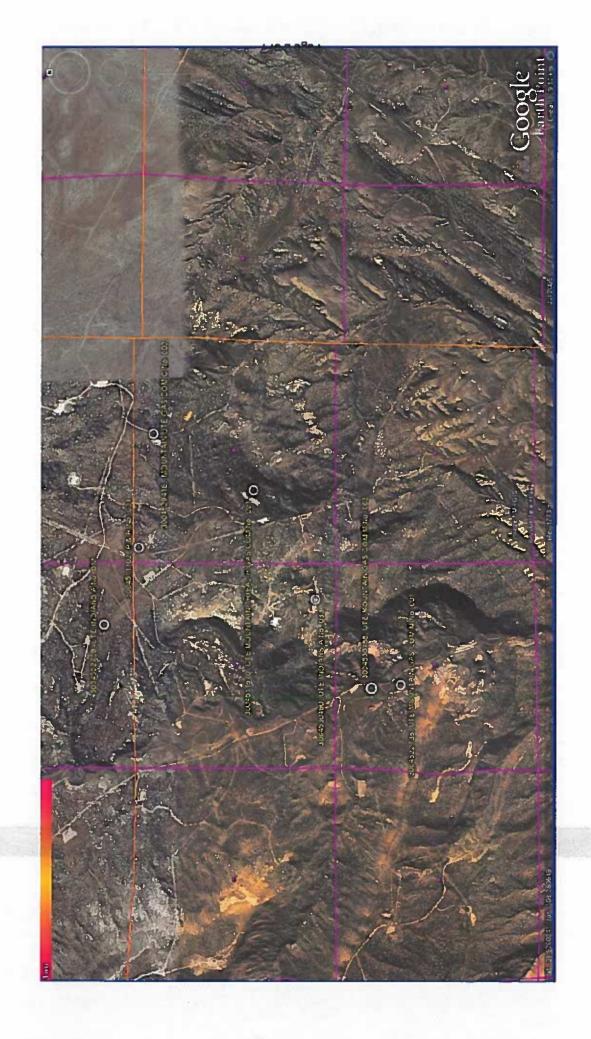
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sJ 01503	30N	13W	56	4.	2		310	2
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SJ 00992 CLW303071	30N	13W	28	2	1 2		624	3
SJ 00868	30N	13W	29	7				. 4
SJ 00262	30N	13%	29	2			38	
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SJ 03046	30N	13W	29	7	2 4		80	` '
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SJ 00448	30N	13W	29	<b>막</b>			45	•
SJ 00215	30N	138		4	m		55	.,
	30N	13W	29	4	m		40	
SJ 02754	30N	13W	29	4	4		65	
SJ 00467	30N	131	30	7			36	
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SJ 00156	30N	13W	32	m			44	
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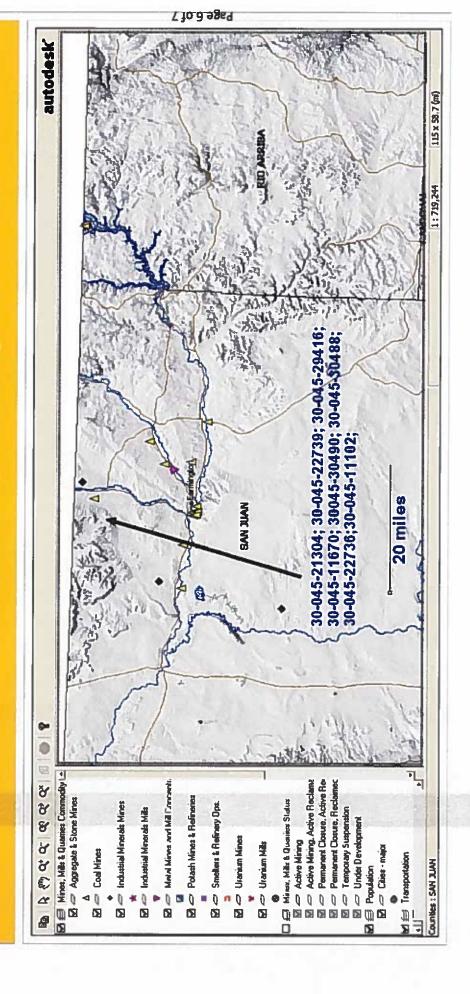
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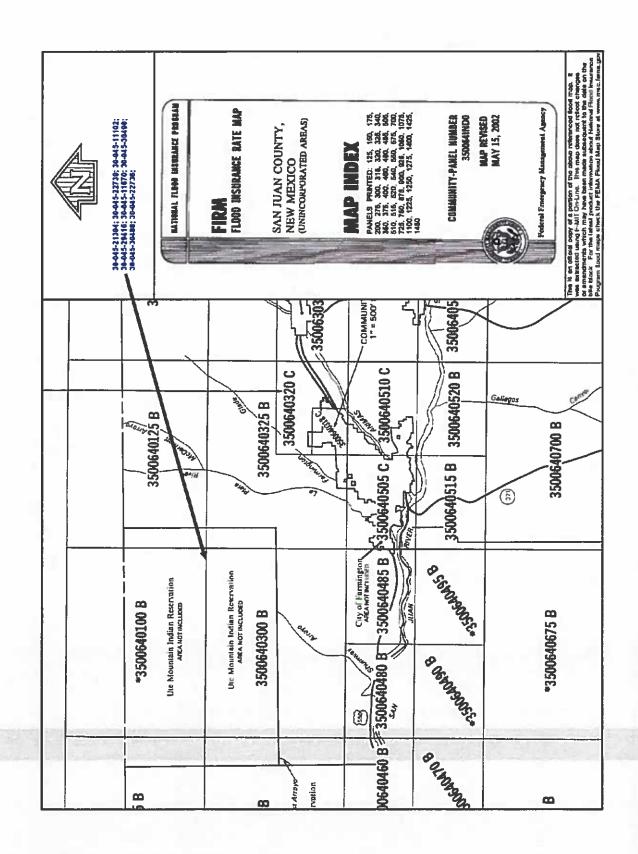




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# Mines, Mills and Quarries Web Map





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

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

## General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 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 ½ 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 \(\frac{1}{2}\)" 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

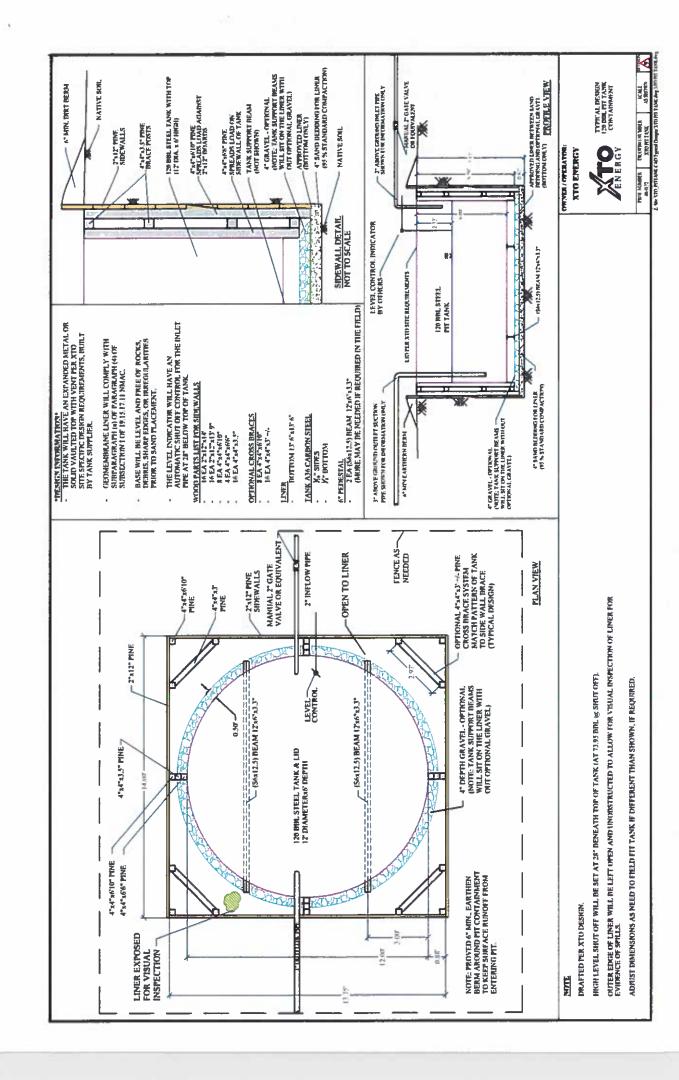
XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks Page 2

> 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 9. high-level shut-off control device and manual controls to prevent overflows. (See attached
- XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of 10. 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).

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The general specifications for design and construction are attached. 11.



## 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.
- 6. XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 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.

		MONTH	ILY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	NSPECTIC	N FORM		
Well Name:					API No.:			
Legals	Sec:		Township:		Range:	B		
XTO			Anv visible		Collection of			
Inspector's	Inspection	Inspection	liner	Any visible signs of	surface	Visible layer	Any visible signs	Freeboard
Name	Date	Time	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
11								
								_
								1
Notes:	Provide De	Provide Detailed Description:	otion:					
Misc:								
							I.	

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

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

## General Plan

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

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

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

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

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

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

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

- 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

- All closure activities will include proper documentation and be available for review upon request 14. 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:
  - Proof of closure notice to division and surface owner; i.
  - ii. Details on capping and covering, where applicable;
  - Inspection reports; iii.
  - Confirmation sampling analytical results; iv.
  - Disposal facility name(s) and permit number(s); ٧.
  - Soil backfilling and cover installation; vi.
  - Re-vegetation application rates and seeding techniques, (or approved alternative vii. to re-vegetation requirements if applicable);

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Photo documentation of the site reclamation. viii.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 114874

## **QUESTIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114874
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### QUESTIONS

Facility and Ground Water	
lease answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.	
Facility or Site Name	Ute Mountain Gas Com M 2
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Ute Mountain Gas Com M 2
Well API, if associated with a well	30-045-30488
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank		
Subsection I of 19.15.17.11 NMAC		
Volume / Capacity (bbls)	120	
Type of Fluid	Produced Water	
Pit / Tank Construction Material	Steel	
Secondary containment with leak detection	Not answered.	
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.	
Visible sidewalls and liner	Not answered.	
Visible sidewalls only	True	
Tank installed prior to June 18. 2008	True	
Other, Visible Notation. Please specify	Not answered.	
Liner Thickness (mil)	Not answered.	
HDPE (Liner Type)	Not answered.	
PVC (Liner Type)	Not answered.	
Other, Liner Type. Please specify (Variance Required)	Not answered.	

District I

District III

Operator

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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HILCORP ENERGY COMPANY

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

QUESTIONS, Page 2

Action 114874

Santa Fe, NM 87505	
QUESTIONS (continued)	
OGRID:	372171

## 1111 Travis Street Action Number Houston, TX 77002 114874 Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB) QUESTIONS 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 Not answered. 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 Not answered. feet Alternate, Fencing. Please specify (Variance Required) 4' hogwire Netting Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Not answered. Netting Not answered Other, Netting. Please specify (Variance May Be Needed) expanded metal or vaulted solid top Signs Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.) 12"x 24", 2" lettering, providing Operator's name, site location, and emergency Not answered. Signed in compliance with 19.15.16.8 NMAC True Variances and Exceptions Justifications and/or demonstrations ofequivalency 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 Variance(s): Requests must be submitted to the appropriate division district for consideration Not answered. of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for Not answered. consideration of approval

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

QUESTIONS, Page 3

Action 114874

QUESTIONS (continued	)
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	11/187/

Action Type:

[C-144] Legacy Below Grade Tank Plan (C-144LB)

### QUESTIONS

## 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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Not answered.
NM Office of the State Engineer - iWATERS database search	True
USGS	Not answered.
Data obtained from nearby wells	Not answered.

Siting Criteria, Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No

roposed Closure Method	
Below-grade Tank	Below Grade Tank - (BGT)
Waste Excavation and Removal	True
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	01/05/2009

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

ACKNOWLEDGMENTS

Action 114874

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	114874
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### **ACKNOWLEDGMENTS**

V	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
V	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

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

CONDITIONS

Action 114874

## **CONDITIONS**

Operator:	OGRID:
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1111 Travis Street	Action Number:
Houston, TX 77002	114874
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### CONDITIONS

Created By	Condition	Condition Date
vvenegas	None None	6/9/2022