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

State of New Mexico
Energy Minerals and Natural Resources
Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and

provide a copy to the appropriate NMOCD District Office.

2009 APR 20 ATT 10 10

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
Legacy BGT1	Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tan	k, 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 ordinances.

Operator: XTO Energy, Inc.	OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410	
Facility or well name: Gardner #6A	
API Number: 30-045-30742 OCD Permit Nu	
U/L or Qtr/Qtr A Section 25 Township 32N Range	09W County: San Juan
Center of Proposed Design: Latitude 36.960770 Longitude	107.726520 NAD: 1927 № 1983
Surface Owner: X 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	111 0''1
Liner Seams: Welded Factory Other Volume:	bbi Dimensions: Lx wx D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to intent)	activities which require prior approval of a permit or notice of
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
Lined Unlined Liner type: Thicknessmil LLDPE HDPI	E PVC Other
Liner Seams: Welded Factory Other	
4.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 80 bbl Type of fluid: Produced Water	
Tank Construction material: Steel	1
Secondary containment with leak detection Wisible sidewalls, liner, 6-inch lift and	
Visible sidewalls and liner Visible sidewalls only Other Visible sidewalls.	
Liner type: Thicknessmil HDPE PVC Other	
5.	
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa	En Environmental Durany office for anni-landing of anni-landing
Submittal of all exception request is required. Exceptions must be submitted to the Santa	re Environmental Bureau office for consideration of approval.

5	
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)	l, 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)	
8. Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
⊠ Signed in compliance with 19.15.3.103 NMAC	
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	u office for
consideration of approval. [Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10. 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 acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appl office or may be 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.	ropriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
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
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ⊠ No
Within a 100-year floodplain FEMA map	☐ Yes ⊠ No
	<u> </u>
Form C-144 Oil Conservation Division Page 2 of	5

Temporary Pits, Emergency Pits, and Below-gr Instructions: Each of the following items must b	ade Tanks Permit Application Attachment Checkle e attached to the application. Please indicate, by a c	ist: Subsection B of 19.15.17.9 NMAC heck mark in the box, that the documents are
Hydrogeologic Data (Temporary and Emerg Siting Criteria Compliance Demonstrations Design Plan - based upon the appropriate rec Operating and Maintenance Plan - based upon	- based upon the requirements of Paragraph (4) of Suency Pits) - based upon the requirements of Paragraph based upon the appropriate requirements of 19.15.17 quirements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.17.12 NMAC ough 18, if applicable) - based upon the appropriate regularity and the appropriate regularity and the appropriate regularity.	(2) of Subsection B of 19.15.17.9 NMAC .10 NMAC
and 19.15.17.13 NMAC	ough (8, it applicable) - based upon the appropriate re	quirements of Subsection C of 19.13.17.9 NWAC
	esign) API Number:	or Permit Number:
12.		
Closed-loop Systems Permit Application Attach	ment Checklist: Subsection B of 19.15.17.9 NMAC e attached to the application. Please indicate, by a c	
Geologic and Hydrogeologic Data (only for Siting Criteria Compliance Demonstrations Design Plan - based upon the appropriate re Operating and Maintenance Plan - based up	on-site closure) - based upon the requirements of Par (only for on-site closure) - based upon the appropriate quirements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.17.12 NMA ough 18, if applicable) - based upon the appropriate re	e requirements of 19.15.17.10 NMAC
	agina) ADI Number	
Previously Approved Design (attach copy of d		(Amilian puls to almost land and almost and
_ , ,, , , _	nce Plan API Number:	(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and prop	ose to implement waste removal for closure)	
Attached. Hydrogeologic Report - based upon the requisiting Criteria Compliance Demonstrations Climatological Factors Assessment Certified Engineering Design Plans - based Dike Protection and Structural Integrity Design - based upon the application and Compatibility Asset Upon Control Quality Assurance Constrution Operating and Maintenance Plan - based upon Freeboard and Overtopping Prevention Plan Nuisance or Hazardous Odors, including Hemergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate responsed Closure: 19.15.17.13 NMAC	on the appropriate requirements of 19.15.17.12 NMA - based upon the appropriate requirements of 19.15.1 S, Prevention Plan equirements of Subsection C of 19.15.17.9 NMAC ar	7.9 NMAC 7.10 NMAC IAC 5.17.11 NMAC 19.15.17.11 NMAC C 7.11 NMAC
Instructions: Please complete the applicable box	es, Boxes 14 through 18, in regards to the proposed	
	☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Belo	w-grade Tank
On-site Closure M	and Removal Closed-loop systems only) lethod (Only for temporary pits and closed-loop system ce Burial On-site Trench Burial re Method (Exceptions must be submitted to the Santa	
15.		
Waste Excavation and Removal Closure Plan Coure plan. Please indicate, by a check mark in	Checklist: (19.15.17.13 NMAC) Instructions: Each	of the following items must be attached to the
	appropriate requirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable)	- based upon the appropriate requirements of Subsect	ion F of 19.15.17.13 NMAC
 ⊠ Soil Backfill and Cover Design Specification ⊠ Re-vegetation Plan - based upon the appropriate the specification of the speci	(for liquids, drilling fluids and drill cuttings) Ins - based upon the appropriate requirements of Substriate requirements of Subsection 1 of 19.15.17.13 NM ropriate requirements of Subsection G of 19.15.17.13	AC
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 Specification ☐ Re-vegetation Plan - based upon the approp ☐ Site Reclamation Plan - based upon the approp ☐ Form C-144		

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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

Name (Print): Kim Champlin	Title:	Environmental Representative
1. 1.		
•		3/11/2009
-mail address: kim_champlin@xtoenergy.com	l elephone:	(505) 333-3100
DCD Approval: X Permit Application (including closu	re plan) Closure Plan (only) O	CD Conditions (see attachment)
OCD Representative Signature: <u>Shelly Wells</u>		Approval Date: <u>08/23/2022</u>
Title: _Environmental Specialist-A	OCD Permit N	umber: Legacy BGT1
n. Closure Report (required within 60 days of closure con Instructions: Operators are required to obtain an approv The closure report is required to be submitted to the divis section of the form until an approved closure plan has be	ved closure plan prior to implementing a sion within 60 days of the completion of	ny closure activities and submitting the closure report. the closure activities. Please do not complete this
	☐ Closure C	ompletion Date:
2. Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain.	e Method	nod Waste Removal (Closed-loop systems only)
3. Closure Report Regarding Waste Removal Closure For Instructions: Please indentify the facility or facilities for wo facilities were utilized.	r Closed-loop Systems That Utilize Abo where the liquids, drilling fluids and dr	ove Ground Steel Tanks or Haul-off Bins Only: ill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facilit	y Permit Number:
Disposal Facility Name:	Disposal Facilit	y Permit Number:
Were the closed-loop system operations and associated act Yes (If yes, please demonstrate compliance to the it-		nat be used for future service and operations?
Required for impacted areas which will not be used for fut. Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Techn	ture service and operations;	
Closure Report Attachment Checklist: Instructions: Emark 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 applied Waste Material Sampling Analytical Results (required Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technology	n) cable) red for on-site closure) nique	
On-site Closure Location: Latitude	Longitude	NAD: □1927 □ 1983
s, Description: Description: Description and attachments submodules. Description and attachments submodules. Description and attachments submodules. Description and attachments submodules.	licable closure requirements and conditio	
Name (Print):	Title:	
ignature:	Date: _	
-mail address:	Telephone:	
		"
Name (Print):		

) District L PO 1664 1966, Holder, NM 90241-1980 District II HII South First, Actosia, NM 80210 District III

OIL CONSERVATION DIVISION 2040 South Pacheco

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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	12 	20c N 24 PN 3: 36	11	<u>. </u>		OIL CO	NOI NOI	01 82 Noo-49		I hereby certif	ty that the wo om field not upervision, best of my b 04/2	ell location es of actua and that u relief. 0/01	TIFICATION In shown on this plat It surveys made by me the same is true and Surveyer:
N	02°10'E	13	14 N89	W'80°	5	15 de le 50				Cerulicate N	umber.		

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Lodestar Service		Pit Permit	Client:	XTO Energy
PO la 446, lump	s, inc.		Project:	Pit Permits
	Siting Criteria Information Sheet		Revised:	3-Mar-09
V			Prepared by:	Brooke Herb
API#:		30-045-30742	USPLSS:	T32N,R09W,S25A
Name:		Gardner #6A	Lat/Long:	36.960770, -107.726520
			Geologic	
Depth to groundwater:		> 100'	formation:	San Jose Formation
Distance to closest continuously flowing watercourse:	6.84 mil	es W of Los Pinos River		
lakebed, playa lake, or	order tribut a first ord	Devil's Pockets; 4010' E of 1st ary of Pinto Canyon; 918' S of er tributary of Rattlesnake 85' W of Rattlesnake Canyon		
Sitikiloie.			Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'		No		W
			Annual Precipitation:	12.95 inches (Navajo Dam)
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	no significant precip events
Any other fresh water well or spring within 1000'		No		
Within incorporated municipal boundaries		No	Attached Documents:	Groundwater report and Data; FEMA Flood Zone Map
Within defined municipal fresh water well field		No		Aerlal Photo, Topo Map, Mines Mills and Quarries Maj
Wetland within 500'		No	Mining Activity:	
Within unstable area		No		None Near
Within 100 year flood plain	No - F	EMA Flood Zone 'X'		
Additional Notes:				

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Gardner #6A Below Ground Tank Siting Criteria and Closure Plan

General Geology and Hydrology

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

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

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

Regional weather further prohibit active recharge. The climate is arid, averaging just over 11 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from July through September. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. September through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

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

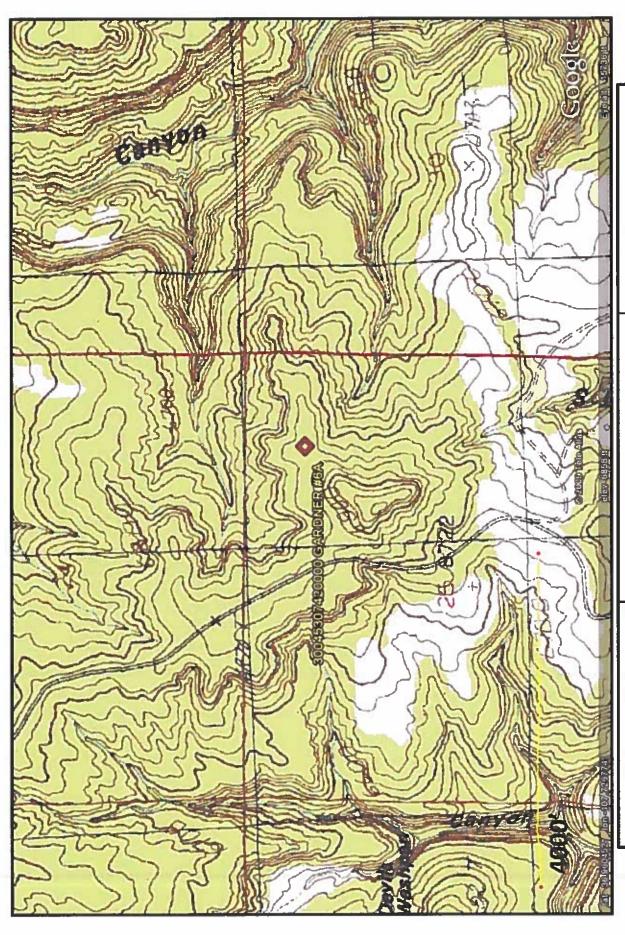
Site Specific Hydrogeology

Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography, proximity to adjacent channels & spring features at similar elevations nearby are also taken into consideration. Groundwater data is extremely limited in this region; the nearest iWaters data point lies 1.10 miles to the southeast (SP 04523); this source is an evaporation pond. The closest water well is 2.68 miles to the west (SJ 03131).

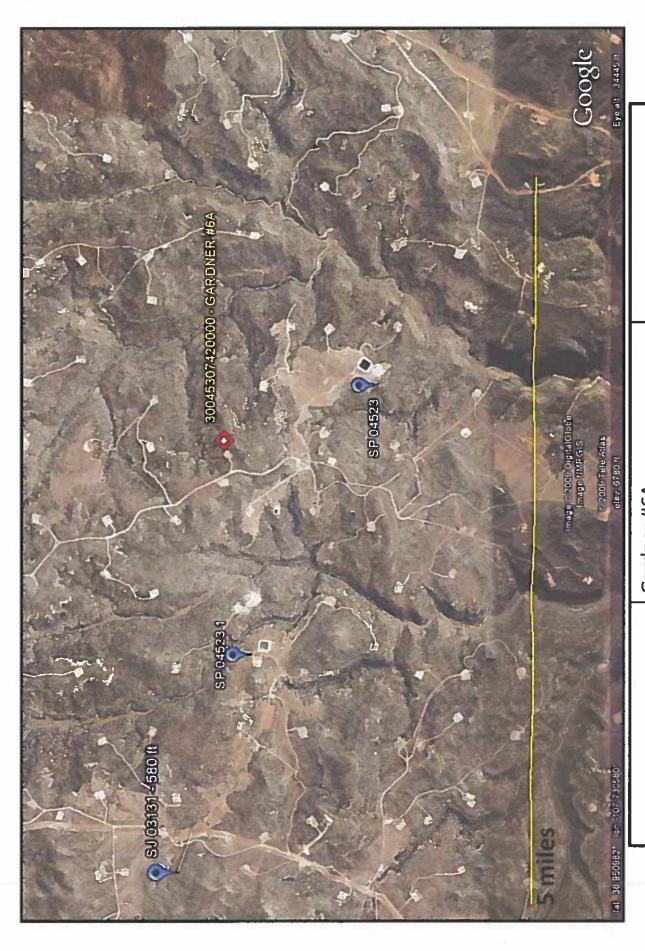
Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and are interbedded with mudstone, siltstone & shale. "Extensive intertonguing" of different members of this formation is reported (Stone et al, 1983). Porous sandstones form the principal aquifers, while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

A site visit to this location determined that there is a playa lake approximately 2.01 miles to the west of the site. Within the cleared area of the playa lake, there are vegetated patches and some man-made berms for stock ponds. Approximately 1.78 miles to the west of the below grade tank site there is an area cleared for agriculture or livestock. Approximately 1.05 miles to the west is a drainage basin or Playa Lake named Devil's Washpan. This topographic depression can fill with rainwater.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the existing below grade tank are attached. A water well to the northwest is approximately 155 feet lower in elevation then the proposed site. Depth to groundwater within the well is 580 feet below ground surface. Distance to groundwater at the site is estimated to be greater than 100 feet below the ground surface.



Topographic Map San Juan County, NM T32N, R09W, S25A Gardner #6A Lodestar Services, Inc Durango, CO 81302 PO Box 4465

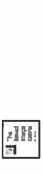


Lodestar Services, Inc Gardne
PO Box 4465
Durango, CO 81302
San Jua

Gardner #6A T32N, R09W, S25A San Juan County, NM

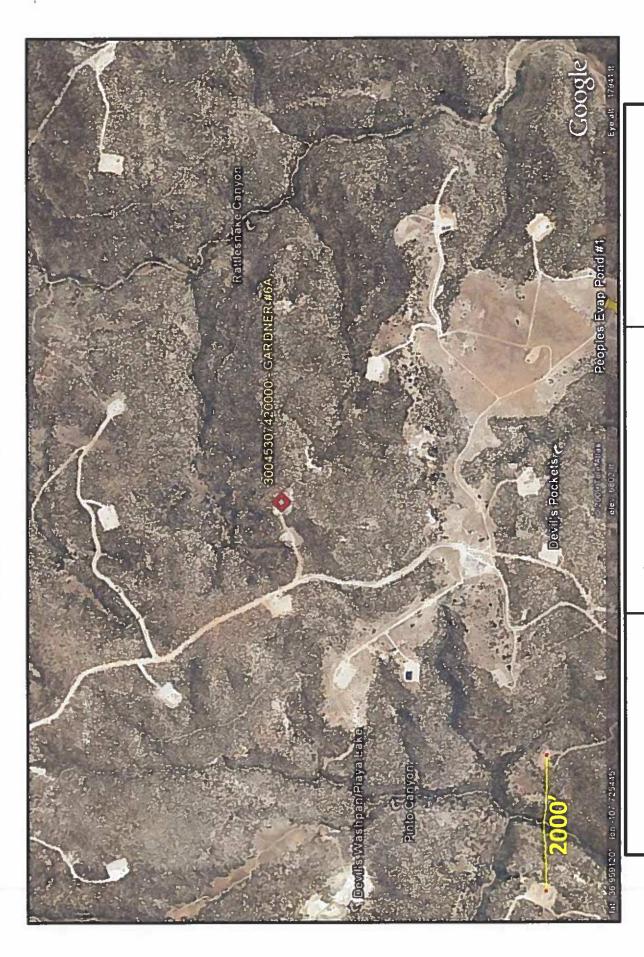
iWaters Groundwater Data Map





New Mexico Office of the State Engineer Water Column/Average Depth to Water

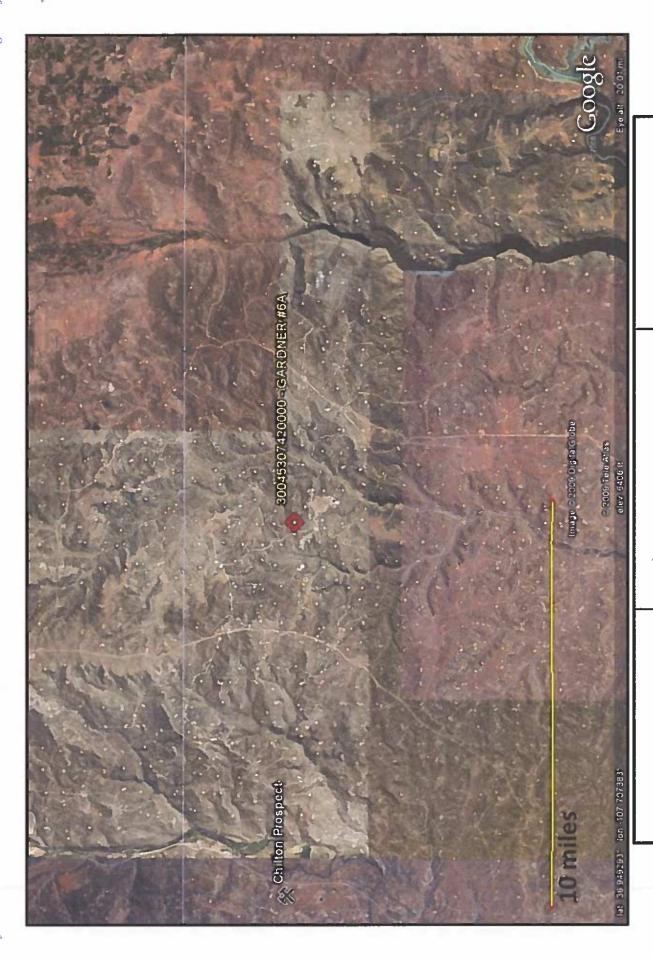
POD Number	County	0 0 0 0 6416 4 Sec Tws Rng	Sec	Tws	Rng	×	Y Del	pthWellDe	Water Y DepthWellDepthWater Column	Water
SJ 03131	San Juan	3 3 3	22	32N	32N 09W	252963	252963 4094453	843	280	263
Record 1 Count:						Y	Average Depth to Water: Minimum Depth:	Water: a Depth:	580 feet 580 feet	
							Maximum Depth:	1 Depth:	580 feet	



Lodestar Services, Inc Gardl PO Box 4465 Durango, CO 81302 San J

Gardner #6A T32N, R09W, S25A San Juan County, NM

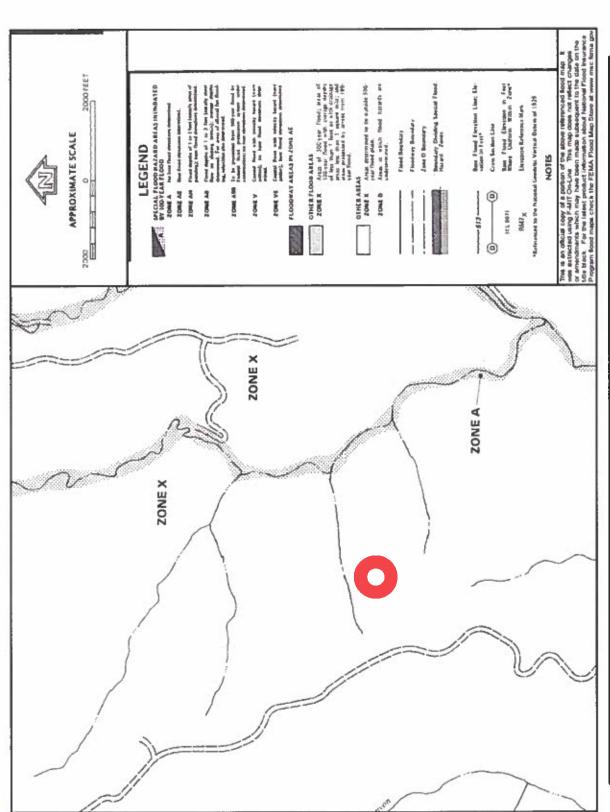
Aerial Photograph



Lodestar Services, Inc Gard PO Box 4465
Durango, CO 81302 San J

Gardner #6A T32N, R09W, S25A San Juan County, NM

Mines, Mills, and Quarries Map



Lodestar Services, Inc PO Box 4465 Durango, CO 81302

Gardner #6A T32N, R09W, S25A San Juan County, NM

FEMA Flood Zone 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

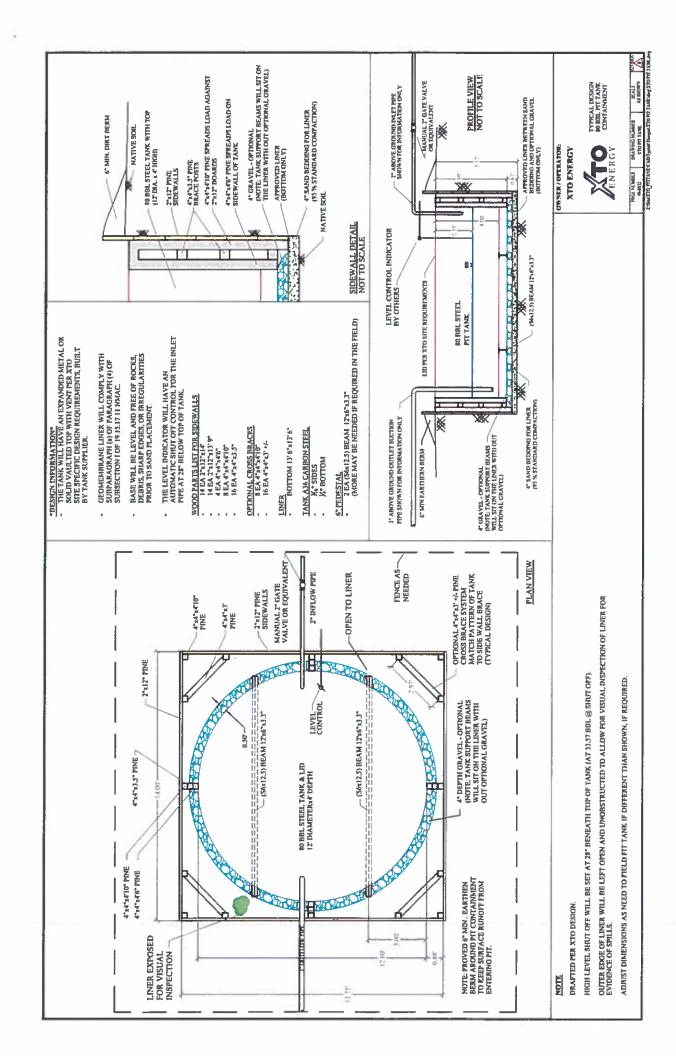
- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade 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 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 1/4" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

bottom will be elevated a minimum of

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.



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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

- XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High 5. 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.
- 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.

		MONTH	LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	NSPECTIO	N FORM		
Well Name:					API No.:			
Legals	Sec:		Township:		Range:			-
XTO Inspector's Name	Inspection	Inspection	Any visible finer tears (Y/N)	Any visible signs of tank overflows (Y/N)	Collection of surface run on (Y/N)	Visible layer	Any visible signs of a tank leak (Y/N)	Freeboard Est. (ft)
				38				
		3.5						
Notes:	Provide Del	Provide Detailed Description:	otion:					
	•							
Misc:	-				:			
	-							

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

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

General Plan

- 1. 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.
- XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through 2. (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.
- XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure 4. 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

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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.
- Notice of Closure operations will be given to the Aztec Division District III office between 72 10. hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - Operator's name i.
 - ii. Well Name and API Number
 - Location by Unit Letter, Section, Township, and Range iii.

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.
- A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable 12. 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 divisionapproved 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 propand will be submitted in closure report

- 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.

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 134678

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	134678
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us id	lentify the appropriate associations in the system.
Facility or Site Name	GARDNER 6A
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	GARDNER 6A
Well API, if associated with a well	3004530742
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)	80
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.

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QUESTIONS (continued)

QUESTIONS, Page 2

Action 134678

Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street	Action Number:
Houston, TX 77002	134678
	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 tank	s)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' hogwire
Numer	
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 solid vaulted 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 telephone numbers	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 Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

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QUESTIONS, Page 3

Action 134678

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	134678	
	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	No
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	Not answered.
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	03/11/2009

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ACKNOWLEDGMENTS

Action 134678

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	134678
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

~	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.
\overline{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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CONDITIONS

Action 134678

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	134678
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By		Condition Date
swells	None	8/23/2022