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

Pit, Closed-Loop System, Below-Grade Tank, or

| Proposed Alternative Method Permit or Closure Plan Application | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Type of action: Existing BGT Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method BGT1 Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method | | | | | |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request | | | | | |
| 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:DAY JF B #1R | | | | | |
| API Number: 30-045-30734 OCD Permit Number: | | | | | |
| U/L or Qtr/Qtr N Section 17 Township 28N Range 10W County: San Juan | | | | | |
| Center of Proposed Design: Latitude 36.65694 Longitude 107.92111 NAD: ☐1927 ☐ 1983 | | | | | |
| Surface Owner: Federal State Tribal Trust or Indian Allotment | | | | | |
| 2. | | | | | |
| Pit: Subsection F or G of 19.15.17.11 NMA | | | | | |
| Temporary: Drifling 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: 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 activities which require prior approval of a permit or notice of intent) | | | | | |
| Drying Pad Above Ground Steel Tanks Haul-off Bins Other | | | | | |
| ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other | | | | | |
| Liner Seams: Welded Factory Other | | | | | |
| 4. | | | | | |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC | | | | | |
| Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Steel | | | | | |
| Tank Construction material: Steel | | | | | |

Alternative Method:

Liner type: Thickness

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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

| 2 of 29 | | | | • |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Temporary Pits, Emergency Pits, and Below- Instructions: Each of the following items must | | | | |
| attached. ☐ Hydrogeologic Report (Below-grade Tank) ☐ Hydrogeologic Data (Temporary and Eme) ☐ Siting Criteria Compliance Demonstration ☐ Design Plan - based upon the appropriate of the complex of th | rgency Pits) is - based uporequirements ipon the appropriate | - based upon the requon the appropriate requors of 19.15.17.11 NMA ropriate requirements | tirements of Paragraph uirements of 19.15.17. C of 19.15.17.12 NMAC | (2) of Subsection B of 19.15.17.9 NMAC 10 NMAC |
| Previously Approved Design (attach copy of | f design) | API Number: | 0 | or Permit Number: |
| Closed-loop Systems Permit Application Atta Instructions: Each of the following items must attached. | | | | |
| Geologic and Hydrogeologic Data (only for Siting Criteria Compliance Demonstration Design Plan - based upon the appropriate Operating and Maintenance Plan - based | ns (only for o requirement upon the app | on-site closure) - base s of 19.15.17.11 NM propriate requirements | d upon the appropriate AC of 19.15.17.12 NMAC | requirements of 19.15.17.10 NMAC |
| Previously Approved Design (attach copy of | • | | · · · · · · · · · · · · · · · · · · · | |
| Previously Approved Operating and Mainten | | | | (Applies only to closed-loop system that use |
| above ground steel tanks or haul-off bins and pr | opose to imp | nement waste remova | i jor ciosure) | |
| Siting Criteria Compliance Demonstration Climatological Factors Assessment Certified Engineering Design Plans - base Dike Protection and Structural Integrity D Leak Detection Design - based upon the a Liner Specifications and Compatibility As Quality Control/Quality Assurance Const Operating and Maintenance Plan - based of Freeboard and Overtopping Prevention Pl Nuisance or Hazardous Odors, including Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate | ed upon the a Design - base appropriate re ssessment - b ruction and I upon the app lan - based up H ₂ S, Prevent | appropriate requirement dupon the appropriate equirements of 19.15. passed upon the appropriate requirements of the appropriate requirements pon the appropriate retion Plan | onts of 19.15.17.11 NM. e requirements of 19.15 17.11 NMAC oriate requirements of 1 of 19.15.17.12 NMAC equirements of 19.15.17 | AC 5.17.11 NMAC 9.15.17.11 NMAC C 7.11 NMAC |
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable be | oxes, Boxes | 14 through 18, in reg | ards to the proposed c | losure plan. |
| ☐ In-p | on and Remo (Closed-loc Method (On lace Burial | oval op systems only) ly for temporary pits On-site Trench E | and closed-loop system | ns) |
| Waste Excavation and Removal Closure Plan closure plan. Please indicate, by a check mark Protocols and Procedures - based upon the Confirmation Sampling Plan (if applicable) Disposal Facility Name and Permit Numb Soil Backfill and Cover Design Specificat Re-vegetation Plan - based upon the approx Site Reclamation Plan - based upon the approx Form C-144 | Checklist: in the box, to e appropriate e) - based up er (for liquications - based opriate requi | (19.15.17.13 NMAC that the documents as requirements of 19.1 son the appropriate red s, drilling fluids and upon the appropriate rements of Subsection | Instructions: Each of the attached. 5.17.13 NMAC quirements of Subsection drill cuttings) requirements of Subsection 1 of 19.15.17.13 NMA | on F of 19.15.17.13 NMAC |
| Received by O | | Oil Conservation | Division | Released to In |

| | ilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 e disposal of liquids, drilling fluids and drill cuttings. Use attachment if | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Disposal Facility Name: | Disposal Facility Permit Number: | |
| Disposal Facility Name: | | |
| | ssociated activities occur on or in areas that will not be used for future ser | |
| Yes (If yes, please provide the information below) Required for impacted areas which will not be used for future | No service and operations: upon the appropriate requirements of Subsection H of 19.15.17.13 NMA ements of Subsection I of 19.15.17.13 NMAC | • |
| provided below. Requests regarding changes to certain siting | of compliance in the closure plan. Recommendations of acceptable sout g criteria may require administrative approval from the appropriate dist ta Fe Environmental Bureau office for consideration of approval. Justi | rict office or may b |
| Ground water is less than 50 feet below the bottom of the buri - NM Office of the State Engineer - iWATERS databas | | ☐ Yes ☐ No ☐ NA |
| Ground water is between 50 and 100 feet below the bottom of - NM Office of the State Engineer - iWATERS databas | e search; USGS; Data obtained from nearby wells | Yes No |
| Ground water is more than 100 feet below the bottom of the b - NM Office of the State Engineer - iWATERS databas | e search; USGS; Data obtained from nearby wells | Yes No |
| Within 300 feet of a continuously flowing watercourse, or 200 lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of |) feet of any other significant watercourse or lakebed, sinkhole, or playa the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, - Visual inspection (certification) of the proposed site; | institution, or church in existence at the time of initial application. Aerial photo; Satellite image | ☐ Yes ☐ No |
| watering purposes, or within 1000 horizontal feet of any other | well or spring that less than five households use for domestic or stock fresh water well or spring, in existence at the time of initial application. e; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended | municipal fresh water well field covered under a municipal ordinance i. ality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Top | pographic 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 l | NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. - Engineering measures incorporated into the design; N Society; Topographic map | M Bureau of Geology & Mineral Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Within a 100-year floodplain FEMA map | | ☐ Yes ☐ No |
| by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upo Proof of Surface Owner Notice - based upon the approp Construction/Design Plan of Burial Trench (if applicab Construction/Design Plan of Temporary Pit (for in-plac Protocols and Procedures - based upon the appropriate i Confirmation Sampling Plan (if applicable) - based upo Waste Material Sampling Plan - based upon the appropri | on the appropriate requirements of 19.15.17.10 NMAC priate requirements of Subsection F of 19.15.17.13 NMAC ple) based upon the appropriate requirements of 19.15.17.11 NMAC per burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC price propriate requirements of 19.15.17.13 NMAC price requirements of Subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsection F of 19.15.17.13 NMAC precede the subsection F of 19.15.17.13 NMAC price standards can precede the subsect | 15.17.11 NMAC |
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| Form C-144 | Oil Conservation Division Page 4 o | f5 pos |
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| Operator Application Certification: | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| I hereby certify that the information submitted with this application is tru | ie, accurate and complete to | the best of my knowledge and belief. |
| Name (Print): Kim Champlin | Title: | Environmental Representative |
| | | 11.20.08 |
| e-mail address: kim_champlin@xtoenergy.com | | (505) 333-3100 |
| 20. | | 90-91-9-101-0-1011111111111111111111111 |
| OCD Approval: Application (including closure plan) | losure Plan (only) 🔲 OCI | O Conditions (see attachment) |
| OCD Representative Signature: Victoria Venegas | | Approval Date:04/21/2022 |
| Title: Environmental Specialist | OCD Permit Nun | nber:BGT1 |
| Closure Report (required within 60 days of closure completion): Su Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained as | n prior to implementing any days of the completion of the nd the closure activities have | closure activities and submitting the closure repo closure activities. Please do not complete this |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. | | |
| 23. Closure Report Regarding Waste Removal Closure For Closed-loop Instructions: Please indentify the facility or facilities for where the liquities were utilized. | Systems That Utilize Above | Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more th |
| Disposal Facility Name: | Disposal Facility F | Permit Number: |
| Disposal Facility Name: | | Permit Number: |
| Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below) | ed on or in areas that will not No | t be used for future service and operations? |
| Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | l operations: | |
| 24. Closure Report Attachment Checklist: Instructions: Each of the followark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site of Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude | | d to the closure report. Please indicate, by a check NAD: 1927 1983 |
| 25. | 10.00 | |
| Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure | | e and complete to the best of my knowledge and specified in the approved closure plan. |
| Name (Print): | Title: | |
| Signature: | Date: | |
| e-mail address: | | |
| | servation Division | e and complete to the best of my knowledge and specified in the approved closure plan. Page 5 of 5 |
| | | |

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FD 3 1/2" BC G.LO. 1913

5 89-55-46 E 2643.40' (R)

DISTRICT | P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico argy, Minerals & Natural Resources Departme

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office
State Lease — 4 Copies
Fee Lease — 3 Copies

DISTRICT II P.O. Drawer DO, Arteslo, N.M. 88211-0719

OIL CONSERVATION DIVISION

Released to Imaging:

| DI: | ISTRICT M 000 Rio Brezos Rd., | , Aztec, N.I | d. 87410 | | Sa | P.O. nta Fe, i | Box 2 NM 87 | 088 504-2088 | | _ | 1 AMEND | ED REPORT |
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|-----------------------------------------------------------------------------------------|------------|-------------------------------|----|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| Lodestar Servic | es. Inc. | Pit Permit | | Project: | |
| PO Box 4465, Duran | | Siting Criteria | | Revised: | · |
| 10 502 4400, 500 00 | 50,0001302 | Information She | et | Prepared by: | |
| V | | | | | |
| API#: | | 3004530734 | | USPLSS: | 28N, 10W, 17N |
| Name: | | DAY JF B #1R | | Lat/Long: | 36.65694/-107.92111 |
| Depth to groundwater: | | >100' | 1 | Geologic formation: | I Naciomonto I |
| Distance to closest continuously flowing watercourse: | ı | N to the 'San Juan River' | | | |
| Distance to closest significant watercourse, lakebed, playa lake, or sinkhole: | 2,957' S | SW to Sullivan Canyon wash | | | |
| | | | | Soil Type: | Entisols |
| Permanent residence, school, hospital, institution or church within 300' | | No | | | LIItisois |
| | | | | Annual Precipitation: | Bloomfield: 8.71", Farmington: 8.21", Otis: 10.41" |
| Domestic fresh water well or spring within 500' | | No | | Precipitation Notes: | Historical daily max: Bloomfield (4.19") |
| Any other fresh water well or spring within 1000' | | No | | | |
| 2000 | | | | | |
| Within incorporated municipal boundaries | | No | | Attached Documents: | 27N 11W i-Waters pdf,27N 12W i-Waters pdf |
| Within defined municipal fresh water well field | | No | | | Topo map pdf, Aerial pdf, Mines and Quarries Map pdf,i-Waters Ground Water Data Map pdf, FEMA flood zone map pdf |
| Wetland within 500' | | No | | Mining Activity: | None |
| Within unstable area | | No | | | |
| Within 100 year flood plain | No | o-FEMA Zone 'X' | | | |
| Additional Notes: | | | | | |
| | | | | | |

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DAY JF B #1R Below Ground Tank Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

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

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

The prominent soil type at the proposed site are entisols and aridisols, which are defined as soils that exhibit little to no any profile development (www.emnrd.state.nm.us). Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the San Juan River. These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area. 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 8 to 12 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

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

Site Specific Hydrogeology

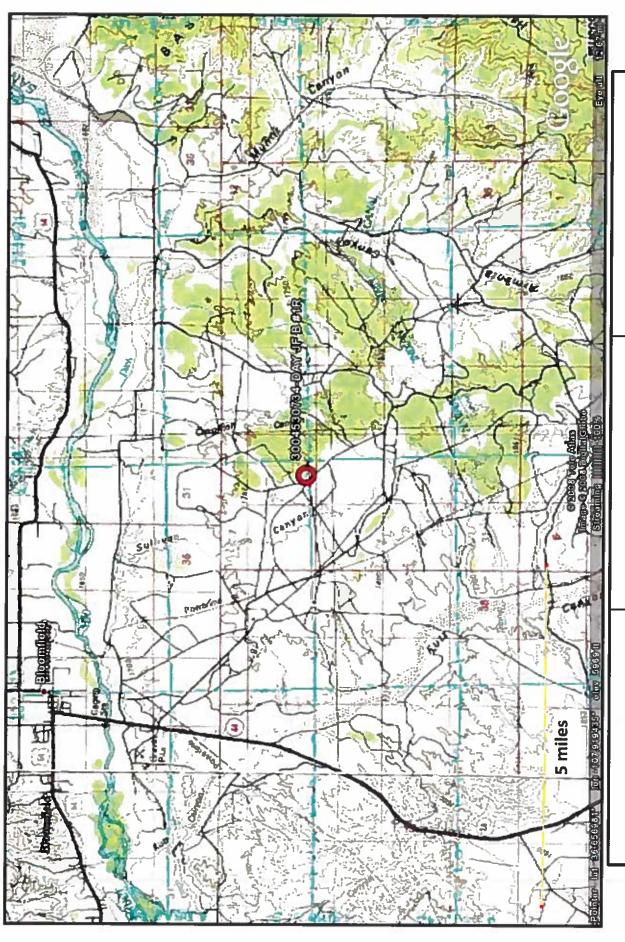
Depth to groundwater is estimated to be greater than 100'. This estimation is based on data from Stone and others (1983), the USGS Groundwater Atlas of the United States and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity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

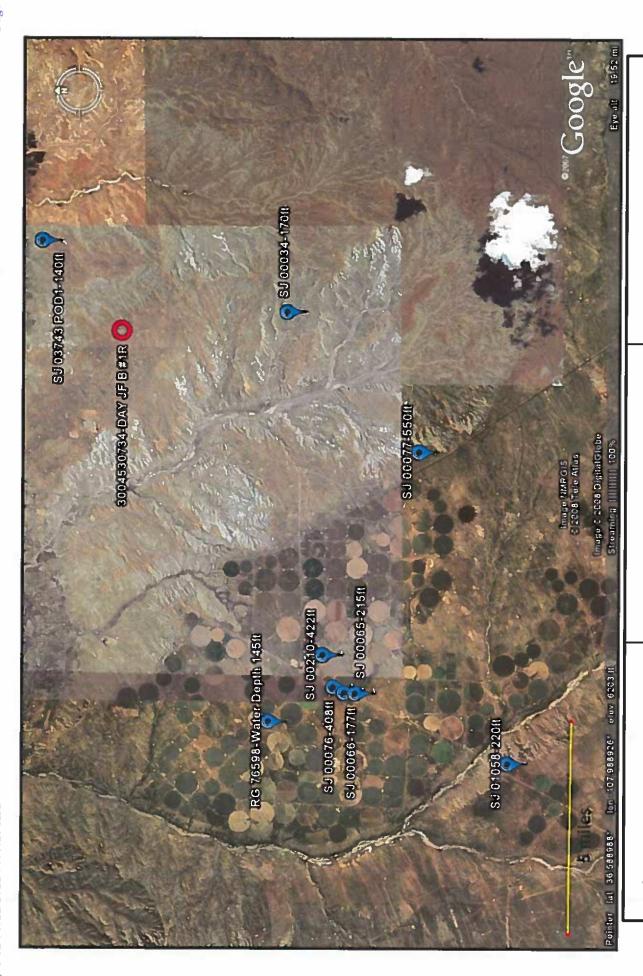
Beds of water-yielding sandstone are present in the Nacimiento Formation, which are fluvial in origin and are interbedded with siltstone, shale and coal. Porous sandstones form the principal aquifers, while relatively impermeable shales form confining units between the aquifers (Stone et al., 1983). Local aquifers exist within the Nacimiento Formation at depth s greater than 100 feet and thicknesses of the aquifer can be up to 3500 feet (USGS, Groundwater Atlas of the US).

The site in question is located near the edge of Kutz Canyon, where deeply eroded sandstone-capped mesas and slope-forming mudstones occur in a sparsely vegetated and arid badlands-type setting. Broad shalely hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are evident on the attached aerial image.

The pit will be located on a relatively flat mesa top at an elevation of approximately 5981 feet near the head of Kutz Wash. It will be approximately 1.08 miles from the Kutz Canyon tributary system and 3.5 miles east of Kutz Wash. Groundwater is expected to be shallow within Kutz Wash. But the significant distance between the Canyon and the site, as well as an elevation difference of over 400 feet suggest groundwater is greater than 100 feet at the proposed site.

State iWaters data points are sparsely distributed in this region, but there is an iWaters data point approximately 2.3 miles to the northeast of the site. Depth to groundwater at the site is 140 feet. A map showing the location of wells in reference to the proposed pit location is attached (SJ03743).





Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
San Juan county, NM

i-Waters Ground Water Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

POD / Surface Data ReportAvg Depth to Water ReportWater Cohumn Report

WATER COLUMN REPORT 03/22/2008

| | (quarters | are | 1 | ¢ = | 2=N | ന് ല | Trarters are 1-NW 2-NE 3-SW 4-SE) | | | | | | | |
|------------|------------------------------------|--------------|-----|-----|-----|---------|-----------------------------------|---|----|-------|-------|--------|-----|-------|
| | (quarters are biggest to smallest) | are | big | ğ | 34 | £ | smallest) | | | Depth | Depth | Water | ri) | feet) |
| POD Number | Tws | Rng | Sec | ט | 너 | | Zone | × | Þi | Well | Water | Column | | |
| SJ 01787 | 27H | I 11W 07 2 2 | 20 | cı | C1 | | | | | 650 | | | | |
| SJ 00077 | 2.7M | 11W 26 2 1 3 | 26 | CI. | 1 3 | | | | | 1102 | 550 | 552 | | |

Record Count: 2

WATER COLUMN REPORT 09/23/2008

| | Depth | Well Water Column | 170 | |
|------------------------------------|------------------------------------|------------------------|------------------|--|
| | ă | X X | | |
| (quarters are 1=NW 2=NB 3=SW 4=SE) | (quarters are biggest to smallest) | Twe Rog Sec q q q Zone | 273 10W 06 2 2 3 | |
| | | PCD Wumber | SJ 00034 | |

New Mexico Office of the State Engineer POD Reports and Downloads

WATER COLUMN REPORT 08/22/2008

| PCD Number RG 76598 SJ 00076 | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone 27N 12W 02 3 4 1 27N 12W 13 1 3 2 | s are B are Rug 12W | Sec 02 | 3.4 | 2 | E 3=SW to small | 1=SE) Lest) | × | > | Depth Well 225 641 | Depth Water 145 | Water Column 80 233 | (in feet) |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----|----------|-----------------|----------------|---|-------------|-----------------------------|-----------------------|------------------------------|-----------|
| | 27M | 121 | <u>ارا</u> | N | CI CI | | | | | 717 | 422 | 295 | |
| SJ 00065 | 27M | 12W | ۳ ا | ന | 1 | | | | | 671 | 27.5 | 456 | |
| SJ 00066 | 27N | 12W | 13 | ന | .⊢I | | | | | 750 | 177 | 573 | |

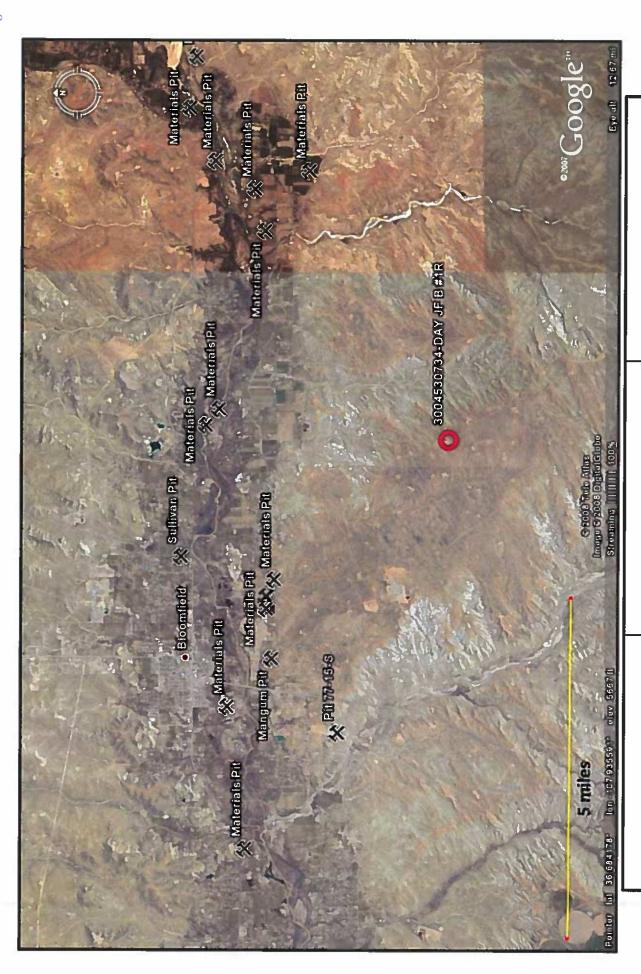
Record Count:



AERIAL PHOTOGRAPH

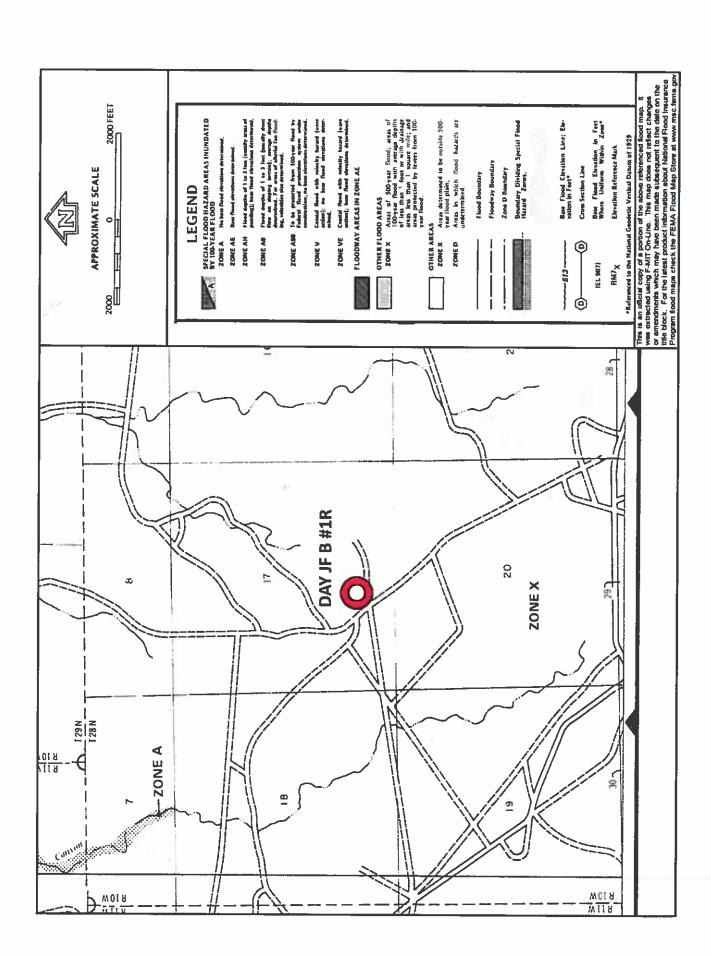
Lodestar Services, Inc PO Box 4465 Durango, CO 81302

DAY JF B #1R T28N, R10W, S17N San Juan county, NM



Lodestar Services, Inc
PO Box 4465
Durango, CO 81302
Durango CO 81302
DAY JF B #1R
T28N, R10W, S17N
San Juan county, NM

Mines and Quarries Map



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

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

General Plan

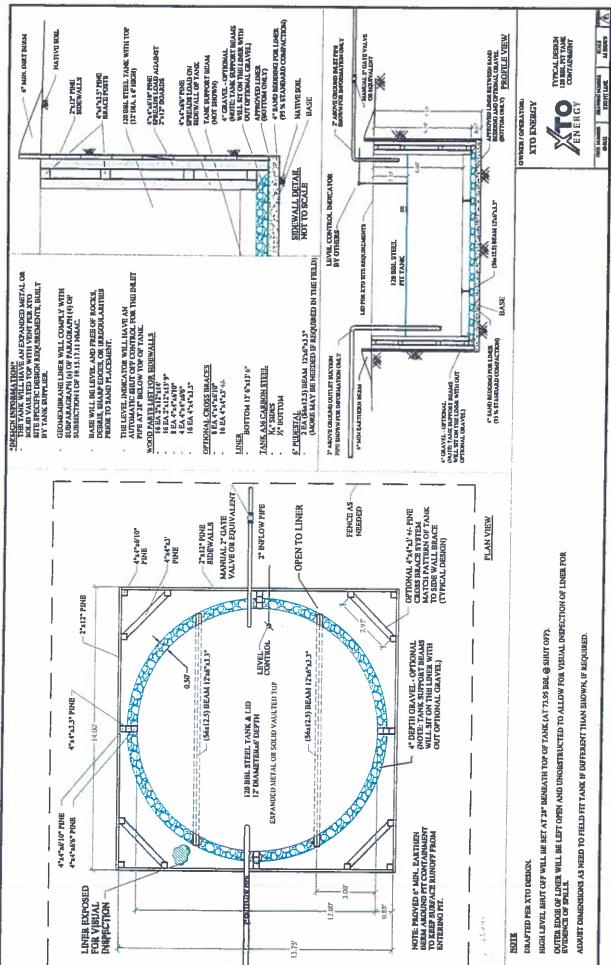
- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site
 operated by XTO where the existing below-grade tank is located. The sign will list the Operator
 on record as the operator, the location of the well site by unit letter, section, township, range, and
 emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

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

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

- 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).
- 310. 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 hydrautic 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.

Received by OCD: 3/22/2022 9:08:23 AM



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.
- 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,

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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.

| | | MONT | 1LY BELO | MONTHLY BELOW GRADE TANK INSPECTION FORM | INSPECTIC | N FORM | | |
|--------------------|-------------|-------------------------------|-------------------|------------------------------------------|-----------------------|---------------|----------------------|-----------|
| Well Name: | | | | | API No.: | | | |
| Legals | Sec: | | Township: | | Range: | | | |
| XTO Inspector's | Inspection | Inspection | Any visible liner | Any visible signs of | Collection 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) |
| | | | | | | | | |
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| Notes: | Provide Det | Provide Detailed Description: | tion: | | | | : | |
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XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

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

General Plan

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

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

Soil contaminated by exempt petroleum hydrocarbons

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

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 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.

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

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

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - t. 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);

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viii. Photo documentation of the site reclamation.

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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 91934

QUESTIONS

| Operator: | OGRID: |
|------------------------|------------------------------------------------|
| HILCORP ENERGY COMPANY | 372171 |
| 1111 Travis Street | Action Number: |
| Houston, TX 77002 | 91934 |
| | 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 identify the appropriate associations in the system. | | |
| Facility or Site Name | J F DAY B 1R | |
| Facility ID (f#), if known | Not answered. | |
| Facility Type | Below Grade Tank - (BGT) | |
| Well Name, include well number | J F DAY B 1R | |
| Well API, if associated with a well | 30-045-30734 | |
| 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 | No | |
| 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 | Not answered. |
| 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS (continued)

QUESTIONS, Page 2

Action 91934

| Operator: HILCORP ENERGY COMPANY | OG | RID: 372171 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
| 1111 Travis Street | Acti | on Number: |
| Houston, TX 77002 | | 91934 |
| | Acti | on 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' steel mesh | |
| | | |
| | | |
| 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 | | W 0 1 |
| Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have | e trieir own sign in compliand | e with Subsection C 01 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 | | |
| | | |
| 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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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 91934

| QUESTIONS (continued) | | |
|------------------------|------------------------------------------------|--|
| Operator: | OGRID: | |
| HILCORP ENERGY COMPANY | 372171 | |
| 1111 Travis Street | Action Number: | |
| Houston, TX 77002 | 91934 | |
| | 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 |

| Proposed 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 | 11/20/2008 |

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ACKNOWLEDGMENTS

Action 91934

ACKNOWLEDGMENTS

| Operator: | OGRID: |
|------------------------|------------------------------------------------|
| HILCORP ENERGY COMPANY | 372171 |
| 1111 Travis Street | Action Number: |
| Houston, TX 77002 | 91934 |
| | 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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CONDITIONS

Action 91934

CONDITIONS

| Operator: | OGRID: |
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| | Action Type: |
| | [C-144] Legacy Below Grade Tank Plan (C-144LB) |

CONDITIONS

| Created B | Condition | Condition Date |
|-----------|-----------|-------------------|
| vvenega | s None | 4/21/2022 |