Form C-144 Revised October 11, 2022

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

| Santa 1°C, IVIVI 67505 |
|--|
| Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application |
| Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. |
| Operator: Harvest Four Corners LLC Address: 1755 Arroyo Dr, Bloomdield NM 87413 |
| 31-6 Compressor Station [fCS1608448772] |
| • |
| API Number: OCD Permit Number: |
| U/L or Qtr/Qtr Section Township Section Range County: County: 1107 (1114) |
| Center of Proposed Design: Latitude 36.835401 Longitude -107.421144 NAD83 |
| Surface Owner: X Federal X State Private Tribal Trust or Indian Allotment |
| □ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: □ Drilling □ Workover □ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management Low Chloride Drilling Fluid □ yes □ no □ Lined □ Unlined Liner type: Thickness mil □ LLDPE □ HDPE □ PVC □ Other □ String-Reinforced □ String-Reinforced Unlined □ Factory □ Other x W x D |
| 3. |
| Selow-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 110 |
| 4. |
| Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |
| 5. Foreign Schooling Def 10 15 17 11 NMAC (Applies to a proposal for the second secon |
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) |
| ☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet |
| 1 our root height, rour straines of our our eventy spaced between one and rour rect |

☐ Alternate. Please specify_

| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | |
|---|---------------|
| Screen ☐ Netting ☐ Other | |
| ☐ Monthly inspections (If netting or screening is not physically feasible) | |
| 7. | |
| 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 19.15.16.8 NMAC | |
| 8. | |
| Variances 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: | |
| ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 9. | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | otable source |
| | |
| General siting | |
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. | ☐ Yes ☒ No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. | ☐ Yes ☐ No |
| NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ⊠ NA |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | ☐ Yes ☐ No |
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) | |
| - Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) | ☐ Yes ☐ No |
| - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | |
| Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Society; Topographic map | |
| Within a 100-year floodplain. (Does not apply to below grade tanks) | Yes No |
| - FEMA map | |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured | ☐ Yes ☑ No |
| from the ordinary high-water mark). | |
| - Topographic map; Visual inspection (certification) of the proposed site | |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; | ☐ Yes ☒ No |
| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, | |
| or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) | Yes No |
| - Topographic map; Visual inspection (certification) of the proposed site | |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial | ☐ Yes ☐ No |
| application.Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |

| Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
|--|----------------------|
| Temporary Pit Non-low chloride drilling fluid | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Permanent Pit or Multi-Well Fluid Management Pit | |
| 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 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. □ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC □ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC □ Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC □ Previously Approved Design (attach copy of design) API Number: or Permit Number: | O NMAC 15.17.9 NMAC |
| 11. Multi Wall Fluid Management Dit Cheeklist: Subsection R of 10.15.17.0 NMAC | |
| Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | |

| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the description is the subsection of the following items must be attached to the application. | documents are |
|--|---------------------|
| attached. | aocuments are |
| ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | |
| ☐ Climatological Factors Assessment | |
| Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan | |
| ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC | |
| Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC | |
| ☐ Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan | |
| Emergency Response Plan | |
| Oil Field Waste Stream Characterization | |
| ☐ Monitoring and Inspection Plan | |
| ☐ Erosion Control Plan | |
| ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | |
| | |
| Proposed Closure: 19.15.17.13 NMAC | |
| Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. | |
| | |
| Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fl | luid Management Pit |
| Alternative | |
| Proposed Closure Method: Waste Excavation and Removal | |
| Waste Removal (Closed-loop systems only) | |
| On-site Closure Method (Only for temporary pits and closed-loop systems) | |
| ☐ In-place Burial ☐ On-site Trench Burial ☐ Alternative Closure Method | |
| Attendative Closure Mediod | |
| 14. Weste Everyotion and Removal Closure Plan Checklists (10.15.17.12 NMAC) Instructions. Each of the following items must be | attached to the |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. | инасней ю іне |
| Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC | |
| Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC | |
| Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) | |
| Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| | |
| 15. | |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC | |
| Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour | ce material are |
| provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P | lease refer to |
| 19.15.17.10 NMAC for guidance. | |
| | |
| Ground water is less than 25 feet below the bottom of the buried waste. | ☐ Yes ☐ No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ NA |
| Ground water is between 25-50 feet below the bottom of the buried waste | ☐ Yes ☐ No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | │ |
| | L IVA |
| Ground water is more than 100 feet below the bottom of the buried waste. | Yes No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa | ☐ Yes ☐ No |
| lake (measured from the ordinary high-water mark). | |
| - Topographic map; Visual inspection (certification) of the proposed site | |
| | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence | ☐ Yes ☐ No |
| at the time of initial application. | |
| - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| | |
| Within 300 feet of a wetland. | |
| US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within incorporated municipal boundaries or within a defined municipal feeth water 1 first 1 1 1 1 | |
| 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 by the confirmation of the confirmatio | ained from the municipality | ☐ Yes ☐ No | | |
|--|--|--------------------------|--|--|
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division - Yes [| | | | |
| Within an unstable area. | in and December 110CC. NM Coolering | | | |
| Engineering measures incorporated into the design; NM Bureau of Geology & M Society; Topographic map | ineral Resources; USGS; NM Geological | ☐ Yes ☐ No | | |
| Within a 100-year floodplain FEMA map | | ☐ Yes ☐ No | | |
| | | 163 110 | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the followa check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Subset Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - become Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15. Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cure Soil Cover Design - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 1 Site Reclamation | ents of 19.15.17.10 NMAC ection E of 19.15.17.13 NMAC iate requirements of Subsection K of 19.15.17. assed upon the appropriate requirements of 19. 3 NMAC ents of 19.15.17.13 NMAC .17.13 NMAC ttings or in case on-site closure standards cann 9.15.17.13 NMAC 9.15.17.13 NMAC | 11 NMAC 15.17.11 NMAC | | |
| 17. Operator Application Certification: | | | | |
| I hereby certify that the information submitted with this application is true, accurate and | - | ef. | | |
| Name (Print): Jennifer Deal | Title: Enviornmental Specialist | | | |
| Signature: Gennifu Deal | Date: 8/14/2023 | | | |
| | Telephone: 505-324-5128 | | | |
| 18. OCD Approval: X Permit Application (including closure plan) Closure Plan (only | y) OCD Conditions (see attachment) | | | |
| OCD Representative Signature: Shelly Wells | Approval Date: 8/16/2023 | 3 | | |
| v | Permit Number: <u>BGT3</u> | | | |
| 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to imple The closure report is required to be submitted to the division within 60 days of the comp section of the form until an approved closure plan has been obtained and the closure as | menting any closure activities and submitting pletion of the closure activities. Please do not | | | |
| 20. | | | | |
| Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Clo ☐ If different from approved plan, please explain. | osure Method Waste Removal (Closed-lo | oop systems only) | | |
| Closure Report Attachment Checklist: Instructions: Each of the following items mu mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) | st be attached to the closure report. Please in | dicate, by a check | | |

| 22. | |
|---------------------------------|---|
| Operator Closure Certification: | |
| | ents submitted with this closure report is true, accurate and complete to the best of my knowledge and ith all applicable closure requirements and conditions specified in the approved closure plan. |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |

SITING CRITERIA SUMMARY INFORMATION SHEET 19.15.17.10 NMAC



GENERAL INFORMATION

Site Name Pit Identifier 31-6 Compressor Station

Drain Tank

Operator Date

Harvest Four Corners, LLC

8/11/2023

GENERAL SITE LOCATION INFORMATION

Geologic Formation: San Jose

Soil Type: Annual Precipitation:

Orlie fine sandy loam

Navajo Dam 12.87"

SEC: 1 **TWN**: 30N **RNG**: 6W

Latitude 36.835401 Longitude: -107.421144

GENERAL SITING CRITERIA

Is grounwater less than 25 feet below the bottom of below grade tank? - NO

See Figure 1 and attached iWaters Data

BELOW GRADE TANK SITING CRITERIA

Within 100 feet of a continously flowing watercourse? - NO

See Figures 1 and 2

The La Jara Canyon arm of Navajo Reservoir is located approximately 3 miles west of the tank

Within 100 feet of a significant watercourse? - NO

See Figures 1 and 2

A 4th order tributary of La Jara Canyon is located approximately 865 feet north of the tank

Within 100 feet of a lakebed, playa lake, or sinkhole? - NO

See Figures 1 and 2

A stock pond is located approximately 0.65 miles norhteast of the tank

Within 200 horizontal feet of a spring or freshwater well used for public or livestock consumption? - NO

Water well (SJ03556 is located approximately 1.7 miles east of the tank

See Figure 1 and attached iWaters data

ATTACHED DOCUMENTS:

Hydrogeologic Report

Figure 1: Site Receptor Map

Figure 2: Site Map

iWaters Data

| 4 |
|----------|
| A |
| D |
| D |
| ΙT |
| ī |
| <u> </u> |
| N |
| Ā |
| L |
| С |
| ō |
| N |
| 11 |
| V |
| Ε |
| N |
| ΙT |
| S |
| : |



31-6 CDP - 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. The below-grade tank is located southeast of the San Juan River and northeast of Navajo Dam, New Mexico. 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 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. In most of the area, the San Jose Formation lies at the surface and overlies the Nacimiento Formation. Thickness of the San Jose Formation ranges from 200 feet to 2,700 feet, thickening from west to east across the region of interest. Aquifers occur within the coarser and continuous sandstone bodies of the San Jose Formation, and groundwater within these aquifers flows toward the San Juan River. Little specific hydrogeologic data are available for the San Jose Formation system, but numerous wells and springs are used for stock and domestic supplies (Stone et al., 1983).

The prominent soil type at the below-grade tank are Orlie Fine Sandy Loam, which are defined as soils that exhibit 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 toward 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.

Dry and arid weather further prohibits active recharge. The climate of the region is arid, averaging just over 12.87 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 are 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 at the below-grade tank. This estimation is based on data from Stone and others (1983), the United States Geological Survey (USGS) *Groundwater Atlas of the United States.* Local topography and proximity to surface hydrologic features are taken into consideration. When available, permitted water well logs and cathodic protection well logs are referenced to infer depth to groundwater near the site. Beds of water-yielding sandstone are present in the San Jose Formation, which are fluvial in origin and

Released to In

are interbedded with mudstone, siltstone, and shale. "Extensive intertonguing" of different members of this formation is reported. Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers. Most aquifers exist within the San Jose Formation at depths greater than 100 feet, and thicknesses of the aguifers can be up to several hundred feet (USGS, Groundwater Atlas of the United States-, Stone et al., 1983). The below-grade tank is located in a region incised by canyons, washes, gullies, and arroyos, with Navajo Reservoir being the predominant topographic feature. The mesas are composed of cliff-forming sandstone, and systems of dry washes and their tributaries composed of alluvium are evident on the attached aerial image. The below-grade tank is located at an elevation of approximately 6,428 feet, just north of La Fragua Canyon. An elevation difference between the site and the main channel of La Fragua Canyon of 271 feet. Groundwater data are sparse in this region; the nearest iWaters data point with similar topographical characteristics is well number SJ 03556 which is located approximately 1.55 miles east-northeast of the site at an elevation of 6,411 feet. Depth to groundwater in the permitted water well is listed as 250 feet below ground surface, indicating that groundwater is greater than 100 feet beneath the below-grade tanks on site. Groundwater data available from the New Mexico State Engineer's iWaters database for water well near the below-grade tank is attached.

References

Dane, C.H. and G.O. Bachman, 1965, *Geologic Map of New Mexico:* U.S. Geological Survey, 1 sheet, scale 1:500,000.

Dick-Peddie, W.A., 1993, *New Mexico Vegetation - Past, Present and Future:* Albuquerque, New Mexico, University of New Mexico Press, 244 p.

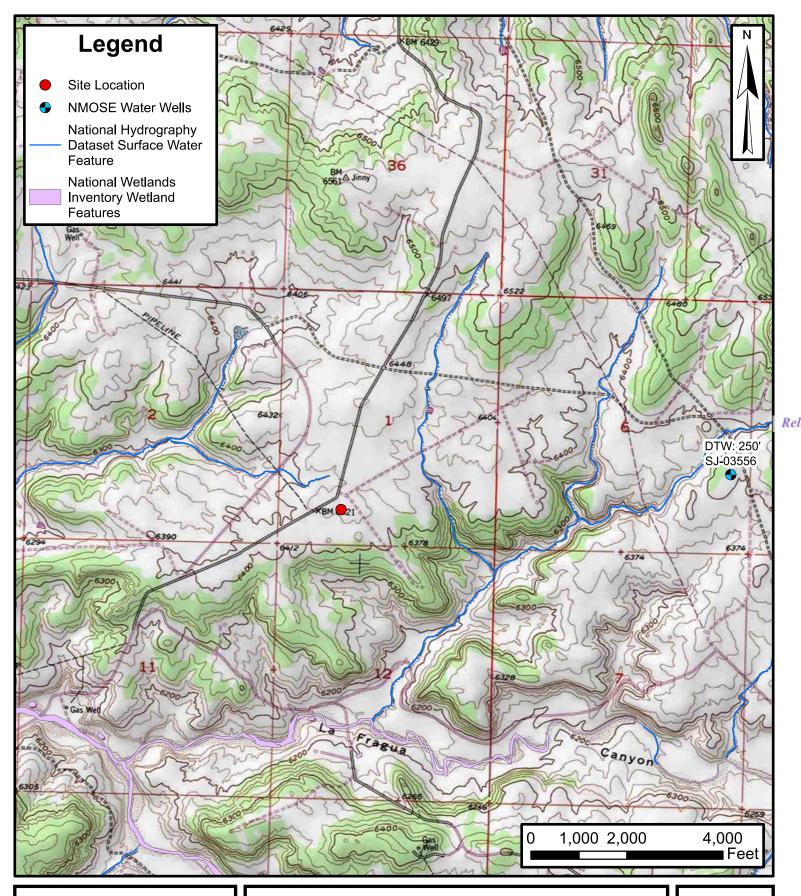
Stone, W.J., F.P. Lyford, P.F. Frenzel, N.H. Mizell, and E.T. Padgett, 1983, *Hydrogeology and Water Resources of the San Juan Basin, New Mexico*: HR-6 New Mexico Bureau of Geology and Mineral Resources Hydrology Report 6.

USGS, Groundwater Atlas of the United States: Arizona, Colorado, New Mexico, Utah, HA 730-C: (http://www.pubs.usgs.gov').

Western Region Climate Center, 2008, New Mexico climate summaries: Desert Research Institute at http://www.wrcc.dri.edu/summarv/climsmnm.html.

New Mexico Energy, Minerals and Natural Resources Department, www.emnrd.state.nm.us.





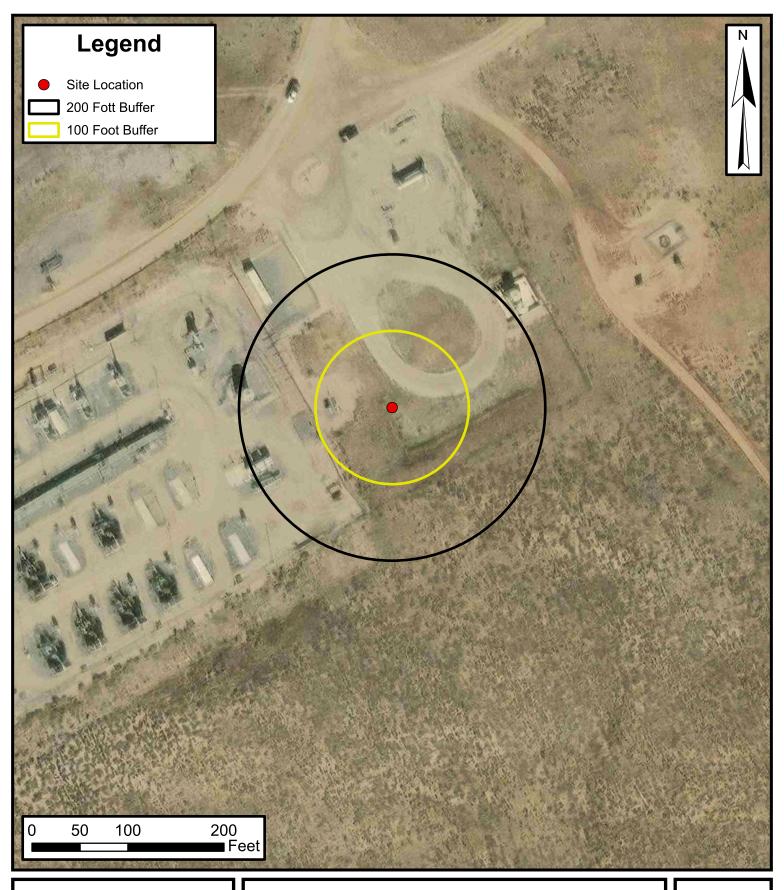


Site Receptor Map

31-6 Compressor Station New BGT Harvest Four Corners, LLC

> 36.83540, -107.42114 Rio Arriba County, New Mexico

FIGURE





Site Map

31-6 Compressor Station New BGReleased to Imaging: 8/16/2023 1: 10:53 Harvest Four Corners, LLC

36.83540, -107.42114 Rio Arriba County, New Mexico



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

(A CLW##### in the POD suffix indicates the POD has been replaced

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

& no longer serves a water right file.)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Sub-

Sub- Q Q Q C Code basin County 64 16 4 Sec Tws Rng

Depth Depth Water
Y Well Water Column

SJ 03556

POD Number

RA 4 2 4 06 30N 05W 286796 4079673*

9

J

Average Depth to Water:

250 feet

Minimum Depth: 250 feet

Maximum Depth: 250 feet

Record Count: 1

PLSS Search:

Section(s): 6

Township: 30N

Range: 05W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/13/15 4:46 PM

Page 1 of 1

WATER COLUMN/ AVERAGE DEPTH TO WATER

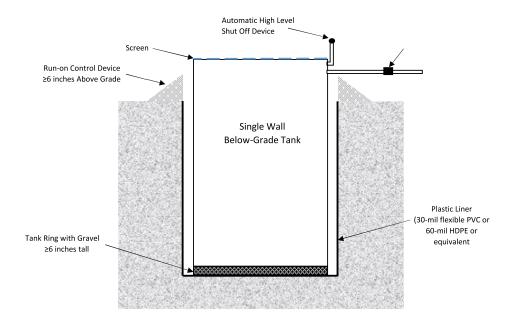
Harvest Four Corners LLC Design and Construction Plan - Below Grade Tanks

In accordance with Rule 19.15.17.11 NMAC of the New Mexico Administrative Code (NMAC), the information within this document describes the design and construction standards to be used by Harvest Four Corners LLC (Harvest) when installing Below Grade Tanks (BGTs). This is Harvest's standard procedure for all BGTs. A separate design and construction plan will be submitted for any BGT which does not conform to this plan.

| Pit Rule Citation (NMAC) | Rule Requirement | Operator Requirements |
|-----------------------------|---------------------|---|
| 19.15.17.11.A | Design | Harvest will design and construct a properly sized and approved BGT to contain liquids and solids, prevent contamination of fresh water and protect public health and environment. A solid riser pipe will be installed to facilitate liquid removal from the tank. The riser shall have a cap or cover and be positioned to prevent standing accumulation of liquids within the riser. |
| 19.15.17.11.C | Construction | Harvest will post appropriate signage to include operator name, legal location information, and emergency telephone contact information. The sign will be at least 12-inches x 24-inches with lettering not less than 2-inches in height and be placed on the fence surrounding the BGT. |
| 19.15.17.11.D(1) | Construction | Harvest will fence the BGT in a manner that deters unauthorized access and will maintain the fence in good repair. Harvest facilities with an exterior perimeter fence will not have a fence installed around the BGT if it is located within the facility exterior perimeter fence. |
| 19.15.17.11.D(3) | Construction | BGT installations will be fenced to protect livestock and wildlife. Fencing will be a minimum of four feet high with four strands of barbed wire spaced in the interval between one foot and four feet above ground. As a variance (if approved with the BGT registration), the fence may be constructed using four 4 foot tall "hog wire" with 1 stand of barbed wire at the top. |
| 19.15.17.11.E | Construction | BGTs will have one-inch (or less) steel mesh (i.e. expanded metal), solid steel covers, or otherwise be constructed to prevent migratory bird contact. |
| 19.15.17.11.l(1) | Design/Construction | Harvest will design and construct the BGT to contain liquids associated with the dehydration and compression of natural gas, which will be resistant to the contents of the tank and resistant to damage from ultra violet light. |
| 19.15.17.11.1(2) | Construction | The BGT foundation will be level and free of rocks, debris, sharp edges or irregularities and have a firm compacted bottom and sidewalls that are stable for the soil conditions. |
| 19.15.17.11.I(3) | Construction | BGT installations will include an earthen berm or equivalent alternative at least 6-inches above ground to prevent surface water run-on; and install overflow monitoring device and/or monitor the tank at a frequency to prevent overflow as depicted in Figure 1. |
| 19.15.17.11.I.4(a) | Construction | For BGTs that do not have double walls, Harvest will construct the BGT to meet the requirements listed in 19.15.17.11.I.4(a) associated with visual inspection, tank construction, liner, and overflow as depicted in Figure 1. All other BGTs, in which the side walls are not open for visible inspection shall be double walled with leak detection capability as depicted in Figure 2. |
| 19.15.17.11.I.4.(b) | Construction | Buried BGTs will be constructed of steel with double-walls and double-bottom, welded following appropriate API and industry codes, coated with an epoxy based paint. A solid riser pipe will be installed between the space of the double-walls to allow monthly inspection to determine tank integrity. |
| 19.15.17.11.I.4.(c) | Design/Construction | Harvest will meet with NMOCD district office before submitting application for an alternative BGT design. |
| 19.15.17.11.I(5) | Construction | A single walled tank (installed prior to June 16, 2008) which has completely open sidewalls for visible inspection and which may or may not have a geomembrane liner, need not meet the above design and construction standards defined in Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC unless the integrity fails. If the integrity failes, the tank will then be closed pursuant to the approved Closure Plan or be retrofitted in accordance with the design drawings (see Figures 1 or 2) or NMOCD approved modification. Retrofitting actions that include changes to the BGT design and construction require an update to the BGT registration. |
| 19.15.17.11.1(6) | Construction | All single walled BGTs must have sidewalls that are completely visible for inspection. Single walled tanks that do not meet this requirement must be retrofitted or closed persuant to the approved Closure Plan. Retrofitting actions that include changes to the BGT design and construction require an update to the BGT registration. |
| 19.15.17.11.1(7) | Construction | A double walled tank (installed prior to June 16, 2008) need not meet the above design and construction standards defined in Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC unless the integrity fails. If the integrity fails, the tank will then be closed pursuant to the approved Closure Plan or be retrofitted in accordance with the design drawings (see Figures 1 or 2) or NMOCD approved modification. Retrofitting actions that include changes to the BGT design and construction require an update to the BGT registration. |

Harvest Four Corners LLC Design and Construction Plan - Below Grade Tanks

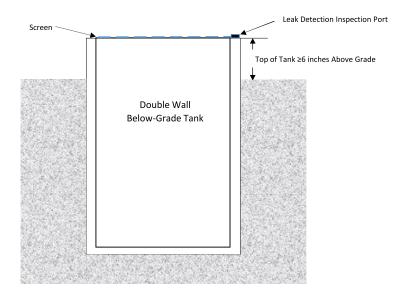
FIGURE 1. BGT DESIGN AND CONSTRUCTION – 19.15.17.11.I.(4)(a) NMAC



- 1. The BGT's bottom must be elevated a minimum of six inches above the underlying ground surface.
- 2. The BGT must be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. Gravel will be contained within a tank ring and not cover the visible portion of the liner
- 3. Geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material. The liner must have a hydraulic conductivity no greater than 1 x 10-9 cm/sec, be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions, and resistant to ultraviolet light. The liner compatibility must comply with USEPA SW-
- 4. Equipped with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.

Harvest Four Corners LLC Design and Construction Plan - Below Grade Tanks

FIGURE 2. BGT DESIGN AND CONSTRUCTION – 19.15.17.11.I.(4)(b) NMAC



- 1. Tank side walls are not open for visible inspection for leaks.
- 2. Double walled with leak detection capability.

Harvest Four Corners LLC Operations and Maintenance Plan - Below Grade Tanks

In accordance with Rule 19.15.17.12 NMAC of the New Mexico Administrative Code (NMAC), the information within this document describes the operations and maintenance standards to be used by Harvest Four Corners LLC (Harvest) when operating Below Grade Tanks (BGTs). This is Harvest's standard procedure for all BGTs. A separate operations and maintenance plan will be submitted for any BGT which does not conform to this plan.

| Pit Rule Citation (NMAC) | Rule Requirement | Operator Requirements |
|-----------------------------|--|---|
| 19.15.17.12.A(1) | Integrity | Harvest will operate and maintain the BGT to contain liquids and solids and maintain the integrity of the liner, liner systems and secondary containment system to prevent contamination of fresh water and protect public health and environment. |
| 19.15.17.12.A(3) | Waste Management | Willams will not discharge or store any hazardous waste in a BGT. "Hazardous waste" means non-exempt waste that exceeds the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. |
| 19.15.17.12.A(5) | Release Requirements | If the BGT integrity is compromised: 1. All discharges will be shut off to the BGT. 2. All liquids will be removed as soon as possible but no later than 48 hours after discovery. 3. Harvest will notify and report to NMOCD in accordance to 19.15.29 NMAC and all other applicable agencys as require. |
| 19.15.17.12.A(7) | Surface Water Run-on | Harvest will maintain a berm or equivalent alternative at least 6-inches above ground to keep surface water run- on from entering the BGT as shown on the Design and Construction Plan. |
| 19.15.17.12.D(1) | Surface Water Run- on and Overflow | Harvest will require and maintain an adequate freeboard to prevent overtopping of the BGT. |
| 19.15.17.12.D(2) | Measurable Oil | Any oil or hydrocarbon collecting in the BGT will be removed. Saleable condensate will be returned to the facility or field condensate tank. Slop oil from compression will be removed and transported to an offsite recycle facility. |
| 19.15.17.12.D(3) | Inspection | Harvest will inspect the BGT for leakage and damage on a monthly basis. Harvest will document the integrity of each tank at least annually and maintain a written record for five years. Inspections may include: 1. Containment berms adequate and no oil present 2. Tank had no visible signs of corrosion 3. Tank valves, flanges, and hatches had no visible leaks 4. No evidence of significant spillage of produced liquids. 5. BGT cover intact and no signs of dead wildlife. 6. Sidewalls are completely visible for single walled BGTs. |
| 19.15.17.12.D(4) | Freeboard | Harvest will maintain a 10-inch freeboard to prevent overtopping of the BGT. |
| 19.15.17.12.D(5) | Integrity | If the BGT loses integrity, Harvest will repair the damage or close the BGT pursuant to the approved Closure Plan. |
| 19.15.17.12.D(6) | Retrofit or Replacement Requirements | While performing BGT equipment or retrofitting actions, Harvest will visually inspect the area beneath the BGT and document any areas that are wet, discolored or showing other evidence of a release on OCD Form C-141. Harvest will report the concentration of contaminants to the OCD with respect to the standards set forth in Table I of 19.15.17.13 NMAC. Harvest will proceed with the approved Closure Plan if no evidence of impacts are present or concentrations of contaminants are below the OCD standards. |

Harvest Four Corners LLC Closure Plan - Below Grade Tanks

In accordance with Rule 19.15.17.13 NMAC of the New Mexico Administrative Code (NMAC), the information within this document describes the closure requirements to be used by Harvest Four Corners LLC (Harvest) when closing Below Grade Tanks (BGTs). This is Harvest's standard procedure for all BGTs. A separate closure plan will be submitted for any BGT closure which does not conform to this plan.

| Pit Rule Citation (NMAC) | Rule Requirement | Operator Requirements |
|-----------------------------|------------------|--|
| 19.15.17.13.A | | This plan describes Harvest proposed closure methods and the proposed procedures and protocols to implement and complete BGT closure. |
| 19.15.17.13.C(1) | | Prior to commencing BGT closure, Harvest will obtain a NMOCD approved closure plan before any closure activities start. Harvest understands that the NMOCD considers the start of closure for a BGT is when the BGT is being removed from the ground. |
| 19.15.17.13.C(2) | † | Harvest will remove liquids and sludge from a BGT prior to commencing closure actions and will dispose the material in a NMOCD approved facility. |
| 19.15.17.13.C.3(a) | Closure Plan | Following removal of the tank and any liner material, Harvest will test the soils beneath the BGT in accordance with 19.15.17.13.C.3(a) NMAC. Samples will be collected from beneath the liner and/or BGT for obvious stained or wet soils, or any other evidence of contamination. |
| 19.15.17.13.C.3(b) | | If any contaminant concentration is higher than the parameters listed in Table I of 19.15.17.13 NMAC, the NMOCD may require additional delineation upon review of the results and Harvest must receive approval before proceeding with closure. |
| 19.15.17.13.C.3(c) | | Upon completion of BGT removal, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste contained, uncontaminated, earthen material. |
| 19.15.17.13.E(1) | Notification | Notice of closure will be given to the surface owner at least 72 hours, but not more than one week, prior to any closure operation via Certified mail. As a variance (if approved with the closure plan), surface owners which are public entities (State, BLM, or Tribal) will be notified by email or phone. The notification of closure will include the following: operators name, well name and API number (if applicable), and location (ULSTR). |
| 19.15.17.13.E(2) | | Notice of Closure will be given to the NMOCD office at least 72 hours, but not more than one week, prior to any closure operation via Certified mail. As a variance (if approved with the closure plan), the NMOCD district office will be notified by email or phone. The notification of closure will include the following: operators name, well name and API number (if applicable), and location (ULSTR). |
| 19.15.17.13.F(1) | Reporting | Operator will send the NMOCD a closure report in accordance with 19.15.17.F(1) NMAC within 60 days of closure including the following items: Proof of closure notice, analytical results, backfill information, revegetation, and photo documentation of reclamation. Harvest understands that the NMOCD considers the closure date the day in which the BGT is backfilled and re-contoured. Revegetation is still required but, may be addressed in closure report. |
| 19.15.17.13.G.4(a) | | Within 60 days of cessation of operations, Harvest will remove liquids and sludge from a BGT prior to implementing a closure method and will dispose of the material in a NMOCD approved facility. Disposal facilities to be used by Harvest are listed below based on the listed waste types. |
| 19.15.17.13.G.4(b) | Timing | Within 6 months of cessation of operations, Harvest will dispose, recycle, reuse, or reclaim the BGT in a NMOCD approved manner. If required, Harvest will provide documentation of the disposition of the BGT to the NMOCD. Liner materials will be cleaned to remove soils or contaminated material for disposal as solid waste. Disposal facilities to be used by Harvest are listed below based on the listed waste types. |
| 19.15.17.13.H.1(a) | Reclamation | Harvest will reclaim the area by substantially restoring the impacted surface area to the condition that existed prior to oil and gas operations by placement of soil cover as described below for 19.15.17.13.H.2 NMAC. The location and associated areas will be recontoured that approximates the original contour and blends with the surrounding topography and revegetate as described below for 19.15.17.13.H.5 NMAC. |
| 19.15.17.13.H.1(b) | | Harvest will submit an alternative plan to be approved by the NMOCD and written approval from the surface owner before submitting the C-144 application. |
| 19.15.17.13.H.1(c) | | If a BGT is removed from an area where production operations will continue, the area will be reclaimed in such a way to minimize dust and erosion to the extent practicable. |
| 19.15.17.13.H.2 | | Cover will include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. |
| 19.15.17.13.H.4 | † | Harvest will construct the soil cover to the existing grade to prevent ponding of water and erosion of the cover material. |

Harvest Four Corners LLC Closure Plan - Below Grade Tanks

| Pit Rule Citation (NMAC) | Rule Requirement | Operator Requirements |
|--|------------------|---|
| 19.15.17.13.H.5(a) 19.15.17.13.H.5(b) 19.15.17.13.H.5(c) 19.15.17.13.H.5(d) 19.15.17.13.H.5(e) | Reclamation | For those portions of the former BGT area no longer in use with the exception where production operations will continue, the area will be reclaimed as nearly as practicable to their original condition or their final land use. Reclamation will begin as early as practical. The areas will be maintained to minimize dust and topsoils placed and contoured to limit erosion control, maintain stability, and preserve surface-water flow patterns. Harvest will seed the disturbed areas the first favorable growing season following closure of the BGT. Harvest will comply with obligations imposed by other applicable federal or tribal agencies in which their re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment. Harvest will notify the NMOCD when reclamation and re-vegetation is complete. |

| Summary of Waste Materials and Disposal Facilities | |
|--|--|
| Waste Types | Disposal Facility |
| Steel Tank | San Juan County Landfill; Steel Recycling |
| Fiberglass Tank | San Juan County Landfill; Bondad Landfill; Re-use |
| Liner (cleaned – absent soil / sludge) | San Juan County Landfill; Bondad Landfill |
| Sludge | Envirotech; Industrial Ecosystems Inc.; T-N-T; Bondad Landfill |
| Liquids (Water / Hydrocarbons) | Basin Disposal; Key Energy; T-N-T |
| Contaminated Soil | Envirotech; Industrial Ecosystems Inc.; T-N-T; Bondad Landfill |
| Fencing / Miscellaneous | Re-use or Scrap |

| epth Below Bottom of pit to ground water less than 10,000 mg/I | Constituent | Method | Limit** |
|---|-------------|------------------------------|--------------|
| ≤50 feet | Chloride | EPA 300.0 | 600 mg/kg |
| | TPH | EPA SW-846 Method 418.1 | 100 mg/kg |
| | BTEX | EPA SW-846 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 8021B or 8260B | 10 mg/kg |
| 51 feet – 100 feet | Chloride | EPA 300.0 | 10,000 mg/kg |
| | TPH | EPA SW-846 Method 418.1 | 2,500 mg/kg |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | втех | EPA SW-846 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 8021B or 8260B | 10 mg/kg |
| ≤100 feet | Chloride | EPA 300.0 | 20,000 mg/kg |
| | ТРН | EPA SW-846 Method 418.1 | 2,500 mg/kg |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | ВТЕХ | EPA SW-846 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 | 10 mg/kg |

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**

CONDITIONS

Action 251960

CONDITIONS

| Operator: | OGRID: |
|---------------------------|--|
| Harvest Four Corners, LLC | 373888 |
| 1755 Arroyo Dr | Action Number: |
| Bloomfield, NM 87413 | 251960 |
| | Action Type: |
| | [C-144] Below Grade Tank Plan (C-144B) |

CONDITIONS

| Created B | | Condition Date |
|-----------|---|-------------------|
| scwells | Note, any correspondence regarding this BGT (BGT3) at this site should include the facility ID which is fCS1608448772. Thank you! | 8/16/2023 |