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

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

Form C-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Hilcorp Energy Company OGRID #: 372171

Address: 382 Road 3100 Aztec, NM 87410

Facility or well name: CANYON LARGO UNIT 460

API Number: 3003927747 OCD Permit Number:

U/L or Qtr/Qtr E (SWNW) Section 6 Township 25N Range 6W County: RIO ARRIBA

Center of Proposed Design: Latitude 36.43135 Longitude -107.51255 NAD83

Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **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

Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____bbl Dimensions: L_____ x W_____ x D_____

3.

☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC

Volume: 120 bbl Type of fluid: Produced Water

Tank Construction material: Metal

☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____

Liner type: Thickness 60 mil ☒ HDPE ☐ PVC ☐ Other _____

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.

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

☐ Alternate. Please specify_____

6.

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

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☐ No ☒ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☒ NA
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. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
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 Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
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.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied 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 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

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ 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 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

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 documents are 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 19.15.17.9 NMAC 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: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, 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

13.
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 Fluid 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

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 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 source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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 fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - 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

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature:_____ Date: _____

e-mail address:_____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Joel Stone **Approval Date:** 01/13/2025

Title: Environmental Scientist & Specialist-A **OCD Permit Number:** BGT1

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 implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** 11/27/2024

20.
Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Tammy Jones Title: Operations/Regulatory Technician – Sr

Signature: Tammy Jones Date: 1/13/2025

e-mail address: tajones@hilcorp.com Telephone: (505) 324-5185

Hilcorp Energy Company
San Juan Basin
Below Grade Tank Closure Report

Lease Name: CANYON LARGO UNIT 460
API No.: 30-039-27747

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

1. HILCORP shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do 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, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, HILCORP will file the C144 Closure Report as required.

   The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

2. HILCORP shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

   All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. HILCORP will receive prior approval to 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 approves.

   The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then HILCORP shall remove the equipment, unless the equipment is required for some other purpose.

   All on-site equipment associated with the below-grade tank was removed.

5. HILCORP will test the soils beneath the below-grade tank to determine whether a release has occurred. HILCORP shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. Hilcorp shall notify the division of its results on form C-141.

12/5/2024

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

6. If HILCORP or the division determines that a release has occurred, then HILCORP shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

   A release was not determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then HILCORP shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

   The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
   i. Operator's name
   ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

   Notification is attached.

9. The surface owner shall be notified of HILCORP's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

   The closure process notification to the landowner was sent via email, certified mail. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. 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 place 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.

    The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. HILCORP shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Hilcorp will repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall 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.

    The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
    - Soil Backfilling and Cover Installation (See Report)
    - Re-vegetation application rates and seeding techniques (See Report)
    - Photo documentation of the site reclamation (Included as an attachment)
    - Confirmation Sampling Results (Included as an attachment)
    - Proof of closure notice (Included as an attachment)

Tammy Jones

From: Adeloye, Abiodun A <aadeloye@blm.gov>
Sent: Monday, September 9, 2024 10:58 AM
To: Tammy Jones; Brandon Sinclair; Clara Cardoza; Travis Munkres; Bryan Hall; Clayton Hamilton; Danny Trujillo; Kate Kaufman; Max Lopez; Mitch Killough; Samantha Grabert; Victoria Venegas (Victoria.Venegas@emnrd.nm.gov); Lisa Jones; Ben Mitchell; Farmington Regulatory Techs
Subject: RE: [EXTERNAL] 72 Hour BGT Closure Notification - CANYON LARGO UNIT 460 (API# 30-039-27747)

Thank you, Tammy. Hilcorp can proceed with the work if the BLM representative is not present as scheduled. Please notify the BLM immediately, if the schedule changes.
Thank you.

Abiodun Adeloye (Emmanuel)
Natural Resources Specialist (NRS)
6251 College Blvd., Suite A
Farmington, NM 87402
Office: 505-564-7665
Mobile: 505-635-0984

From: Tammy Jones <tajones@hilcorp.com>
Sent: Monday, September 9, 2024 10:37 AM
To: Adeloye, Abiodun A <aadeloye@blm.gov>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>; Clara Cardoza <ccardoza@hilcorp.com>; Travis Munkres <tmunkres@hilcorp.com>; Bryan Hall <bhall@hilcorp.com>; Clayton Hamilton <clhamilton@hilcorp.com>; Danny Trujillo <dtrujillo@hilcorp.com>; Kate Kaufman <kkaufman@hilcorp.com>; Max Lopez <Max.Lopez@hilcorp.com>; Mitch Killough <mkillough@hilcorp.com>; Samantha Grabert <Samantha.Grabert@hilcorp.com>; Victoria Venegas (Victoria.Venegas@emnrd.nm.gov) <Victoria.Venegas@emnrd.nm.gov>; Lisa Jones <ljones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>
Subject: [EXTERNAL] 72 Hour BGT Closure Notification - CANYON LARGO UNIT 460 (API# 30-039-27747)

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: **Thursday, 09/12/2024 at 10:30 AM MST**

The subject well has a below-grade tank that will be permanently removed. The BGT permit is attached. Please contact me if you have any questions or concerns.

Well Name: CANYON LARGO UNIT 460

API#: 30-039-27747

Location: Unit E (SWNW), Section 06, T25N, R06W

Footages: 1325' FNL & 1315' FWL

Operator: Hilcorp Energy **Surface Owner:** FEDERAL

Reason: **Well has been P&A'd.**

****Please Note Required Photos for Closure****

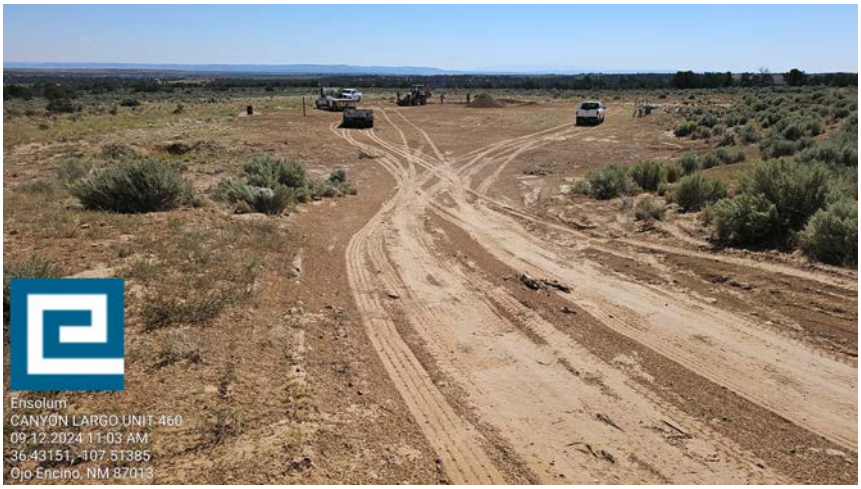
- Well site placard
- Photos of the BGT prior to closure
- The sample location or, more preferred, photos of actual sample collection
- Final state of the area after closure.
- Photos will require captioning including direction of photo, date and time of photo and a description of the image contents.

Thanks,

Tammy Jones | **HILCORP ENERGY COMPANY** | San Juan Regulatory | 505.324.5185 | tajones@hilcorp.com

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



Date & time: 09.12.2024 11:03 AM
Coordinates: 36.43151, -107.51385
Address: Ojo Encino, NM 87013

Date & time: 09.12.2024 11:05 AM
Notes: Tank removal
Coordinates: 36.43116, -107.513
Address: Ojo Encino, NM 87013

CANYON LARGO UNIT 460

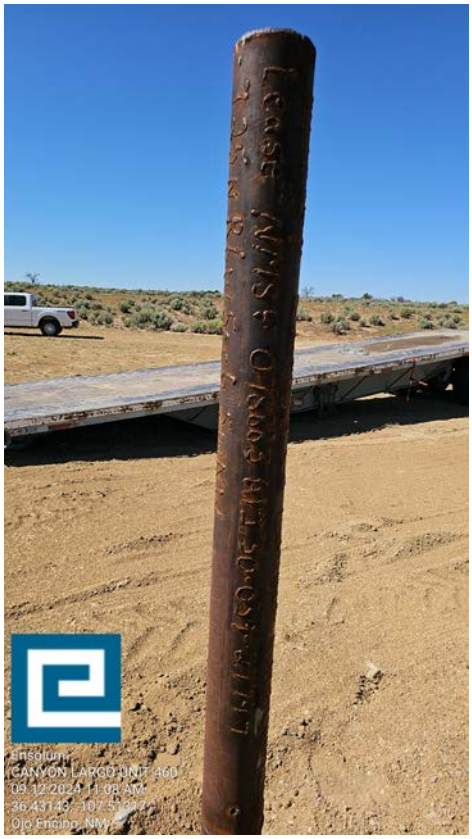
Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 11:06 AM
Coordinates: 36.43117, -107.51298
Address: Ojo Encino, NM 87013

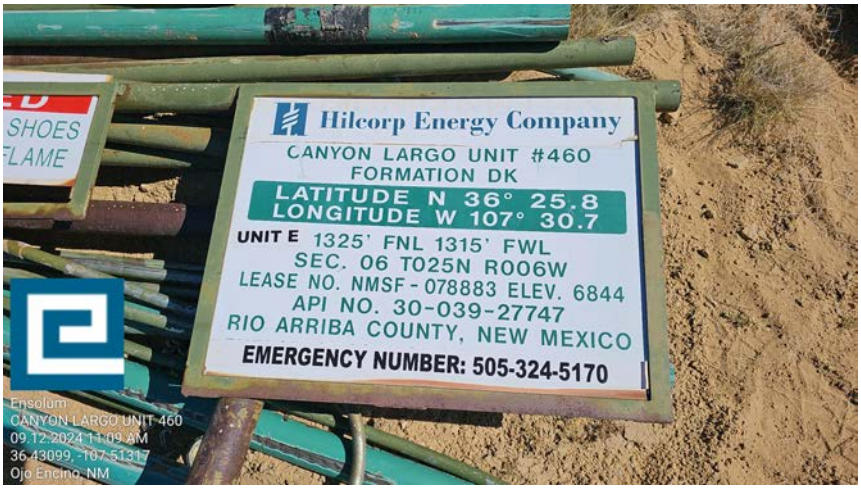
Date & time: 09.12.2024 11:07 AM
Notes: PNA Marker
Coordinates: 36.43143, -107.51317
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



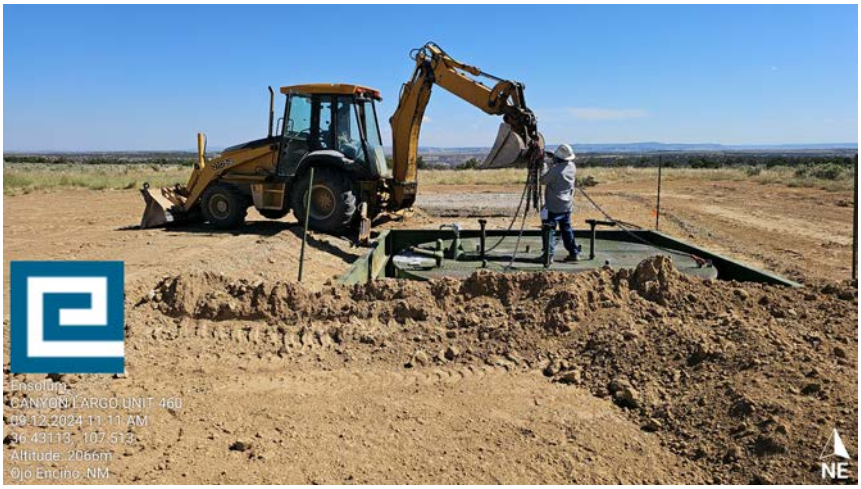
Date & time: 09.12.2024 11:08 AM
Coordinates: 36.43143, -107.51317
Address: Ojo Encino, NM



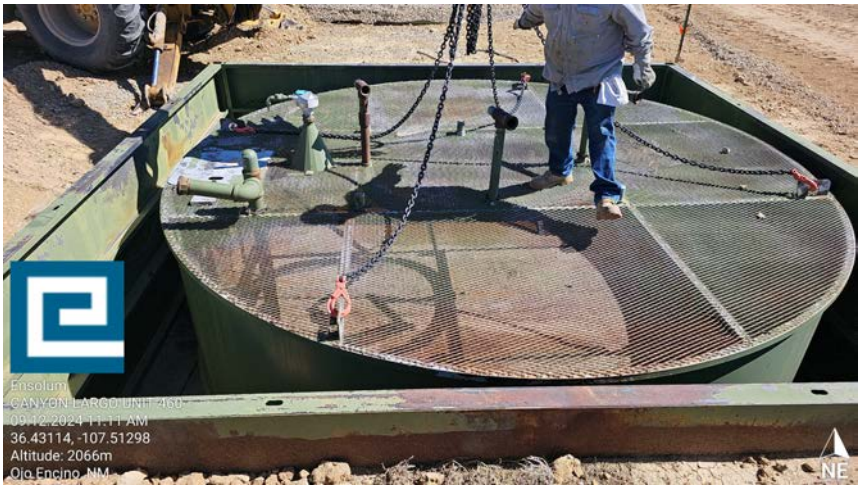
Date & time: 09.12.2024 11:09 AM
Coordinates: 36.43099, -107.51317
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



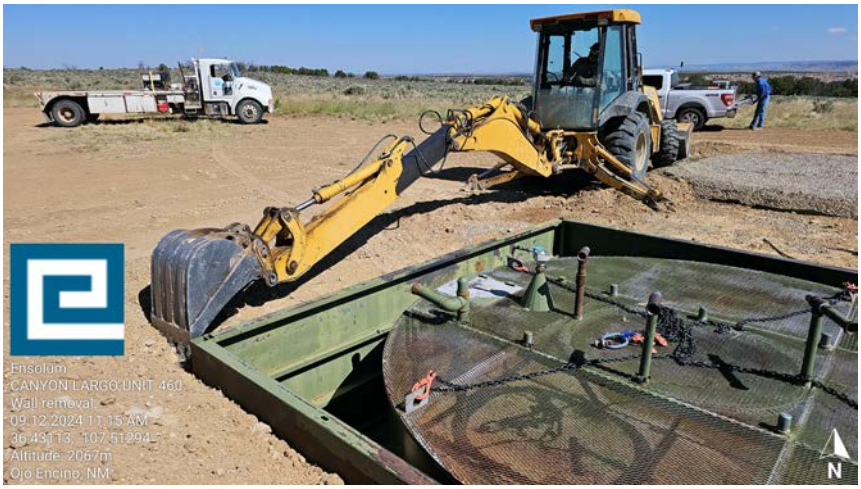
Date & time: 09.12.2024 11:11 AM
Coordinates: 36.43113, -107.513
Direction: NE (48°)
Address: Ojo Encino, NM



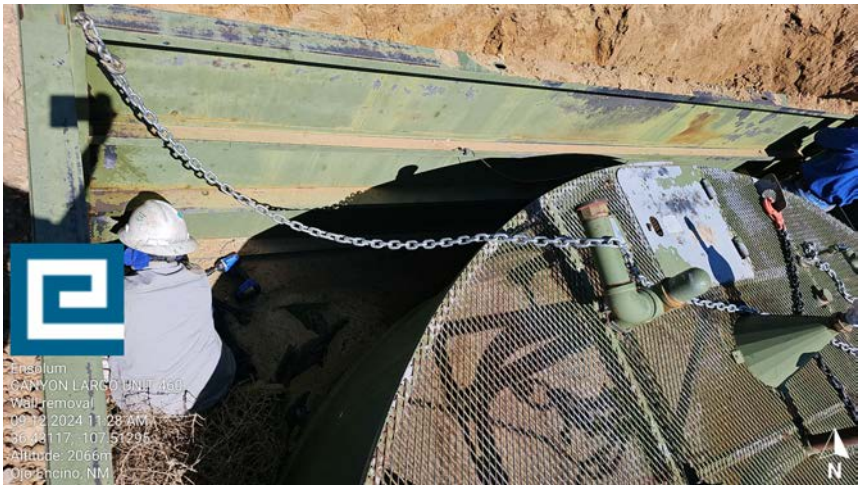
Date & time: 09.12.2024 11:11 AM
Coordinates: 36.43114, -107.51298
Direction: NE (42°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



Date & time: 09.12.2024 11:15 AM
Notes: Wall removal
Coordinates: 36.43113, -107.51294
Direction: N (350°)
Address: Ojo Encino, NM

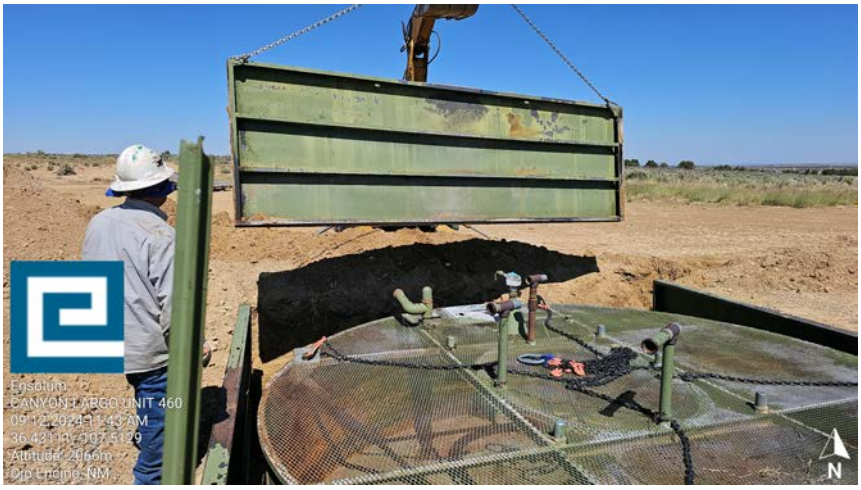


Date & time: 09.12.2024 11:28 AM
Notes: Wall removal
Coordinates: 36.43117, -107.51295
Direction: N (343°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 11:29 AM
Coordinates: 36.43118, -107.51294
Direction: NW (297°)
Address: Ojo Encino, NM



Date & time: 09.12.2024 11:43 AM
Coordinates: 36.43111, -107.5129
Direction: N (343°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

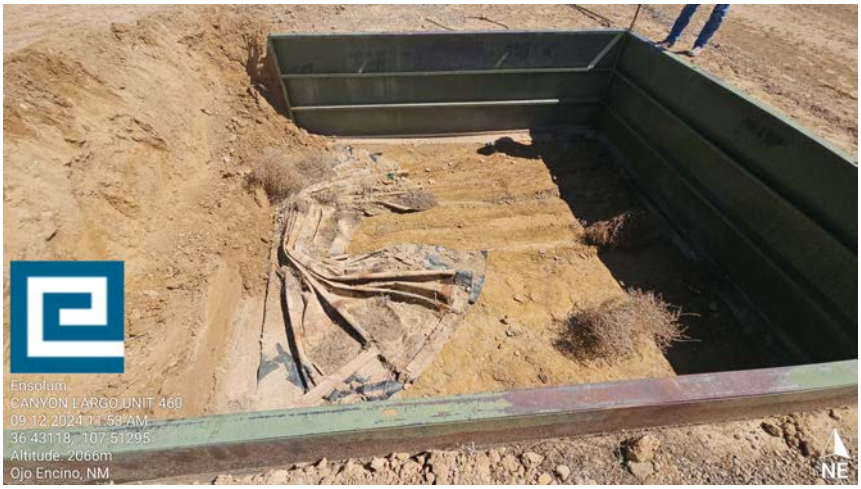
Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 11:53 AM
Coordinates: 36.43108, -107.51307
Direction: N (358°)
Address: Ojo Encino, NM

Date & time: 09.12.2024 11:53 AM
Coordinates: 36.43117, -107.51297
Direction: N (15°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

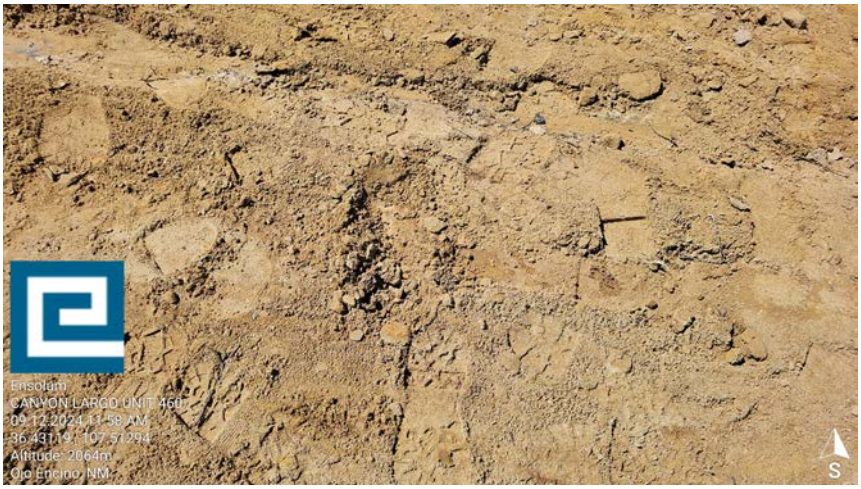


Date & time: 09.12.2024 11:53 AM
Coordinates: 36.43118, -107.51295
Direction: NE (35°)
Address: Ojo Encino, NM

Date & time: 09.12.2024 11:55 AM
Coordinates: 36.43118, -107.51295
Direction: NE (35°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

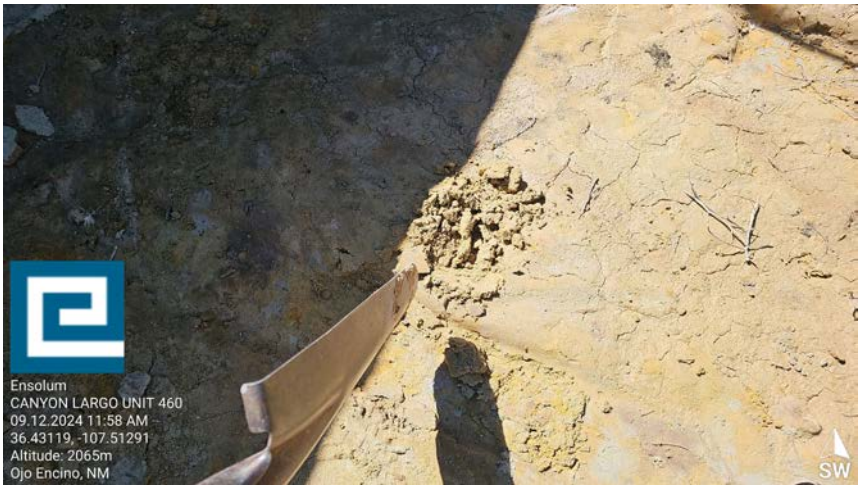


Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43119, -107.51294
Direction: S (174°)
Address: Ojo Encino, NM

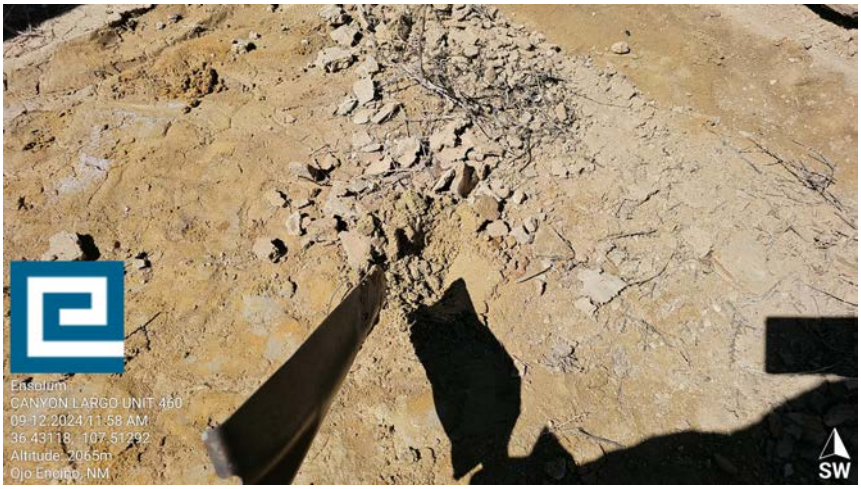
Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43119, -107.51292
Direction: SE (117°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43119, -107.51291
Direction: S (198°)
Address: Ojo Encino, NM

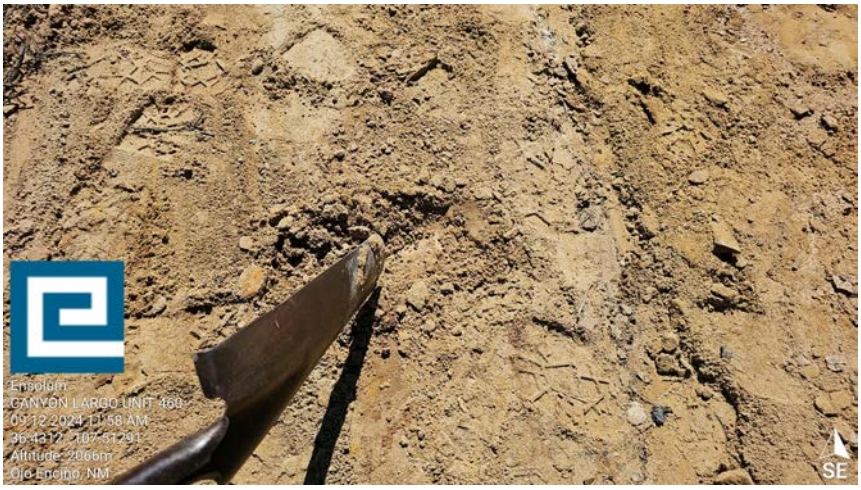


Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43118, -107.51292
Direction: SW (243°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43118, -107.51292
Direction: N (16°)
Address: Ojo Encino, NM



Date & time: 09.12.2024 11:58 AM
Coordinates: 36.4312, -107.51291
Direction: SE (132°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

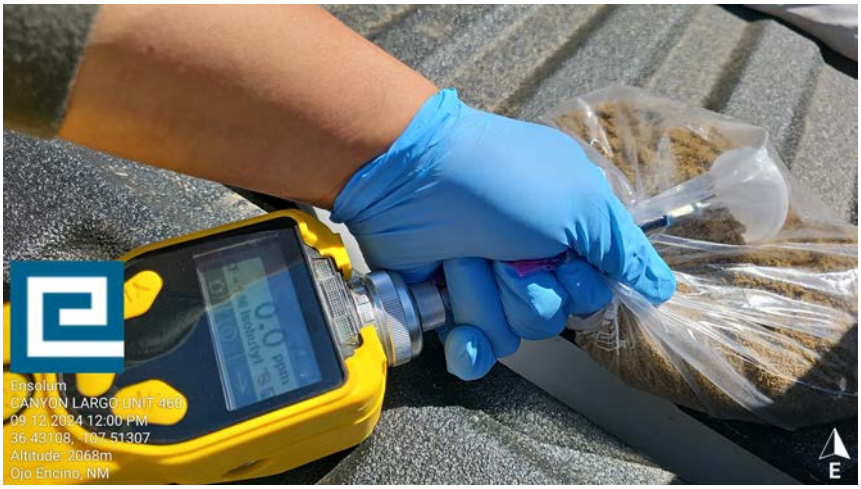
Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43124, -107.51291
Direction: S (173°)
Address: Ojo Encino, NM

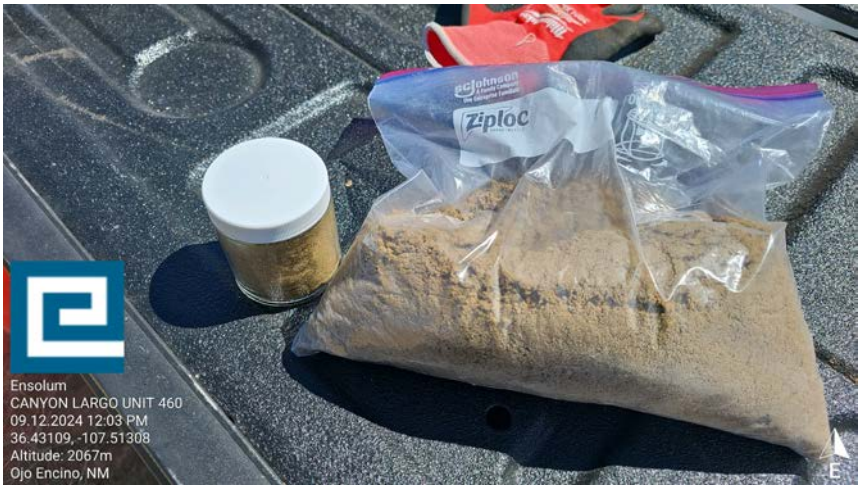
Date & time: 09.12.2024 11:58 AM
Coordinates: 36.43125, -107.51292
Direction: NW (297°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



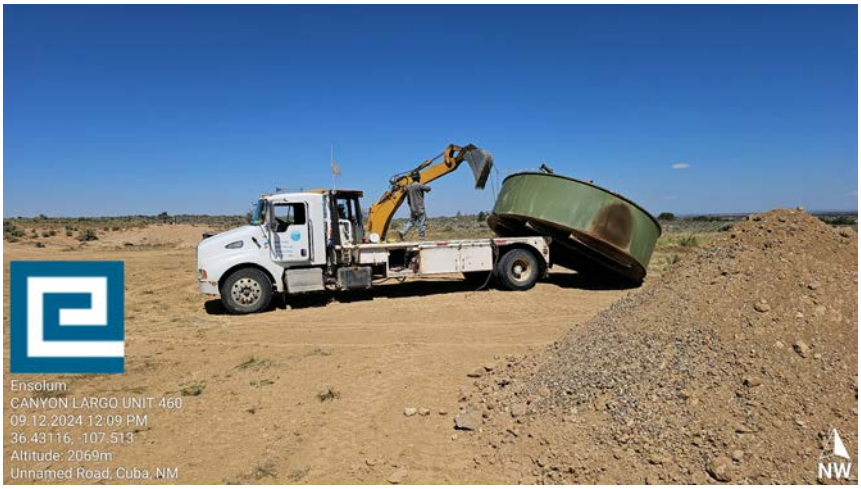
Date & time: 09.12.2024 12:00 PM
Coordinates: 36.43108, -107.51307
Direction: E (90°)
Address: Ojo Encino, NM



Date & time: 09.12.2024 12:03 PM
Coordinates: 36.43109, -107.51308
Direction: E (79°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM



Date & time: 09.12.2024 12:09 PM
Coordinates: 36.43116, -107.513
Direction: NW (333°)
Address: Unnamed Road, Cuba, NM

Date & time: 09.12.2024 12:09 PM
Coordinates: 36.43118, -107.51296
Direction: NE (54°)
Address: Ojo Encino, NM

CANYON LARGO UNIT 460

Project: CANYON LARGO UNIT 460
Company: Ensolum
Report date: 09.12.2024 05:49 PM

Date & time: 09.12.2024 12:09 PM
Coordinates: 36.43118, -107.51295
Direction: NW (317°)
Address: Ojo Encino, NM

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Hilcorp Energy	OGRID: 372171
Contact Name: Samantha Grabert	Contact Telephone: 713-757-7116
Contact email: Samantha.grabert@hilcorp.com	Incident # *(assigned by OCD)*
Contact mailing address: 1111 Travis St. Houston, TX 77471	

Location of Release Source

Latitude 36.4313469 Longitude -107.5132141
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Canyon Largo Unit 460	Site Type Gas Well
Date Release Discovered **N/A**	API# *(if applicable)* 30-039-27747

Unit Letter	Section	Township	Range	County
E	06	25N	06W	Rio Arriba

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

No release was encountered during the BGT Closure.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? **N/A**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Not Required

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Samantha Grabert Title: Environmental Specialist

Signature: Samantha Grabert Date: 9/26/2024

email: samantha.grabert@hilcorp.com Telephone: 713-757-7116

OCD Only

Received by: _____ Date: _____

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Grabert
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 9/24/2024 3:37:42 PM

JOB DESCRIPTION

Unit 460 BGT Closure

JOB NUMBER

885-11754-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
9/24/2024 3:37:42 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Laboratory Job ID: 885-11754-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Unit 460 BGT Closure

Job ID: 885-11754-1

Job ID: 885-11754-1 Eurofins Albuquerque

Job Narrative
885-11754-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 9/13/2024 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Client Sample ID: BGT Composite

Date Collected: 09/12/24 12:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11754-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*35 - 166*	*09/16/24 13:25*	*09/18/24 16:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 16:02	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 16:02	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 16:02	1
Xylenes, Total	ND		0.10		mg/Kg		09/16/24 13:25	09/18/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/16/24 13:25*	*09/18/24 16:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/17/24 11:37	09/18/24 15:25	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 10:01	09/17/24 14:41	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12318/1-A
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/16/24 13:25*	*09/18/24 15:40*	*1*

Lab Sample ID: LCS 885-12318/2-A
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	28.3		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*236*		*35 - 166*

Lab Sample ID: 885-11754-1 MS
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: BGT Composite
Prep Type: Total/NA
Prep Batch: 12318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		25.0	27.2		mg/Kg		109	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*225*		*35 - 166*

Lab Sample ID: 885-11754-1 MSD
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: BGT Composite
Prep Type: Total/NA
Prep Batch: 12318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	28.7		mg/Kg		115	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*224*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12318/1-A
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 15:40	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 15:40	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 15:40	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-12318/1-A
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		09/16/24 13:25	09/18/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/16/24 13:25*	*09/18/24 15:40*	*1*

Lab Sample ID: LCS 885-12318/3-A
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.03		mg/Kg		103	70 - 130		
Ethylbenzene			1.00	1.05		mg/Kg		105	70 - 130		
m&p-Xylene			2.00	2.09		mg/Kg		105	70 - 130		
o-Xylene			1.00	1.03		mg/Kg		103	70 - 130		
Toluene			1.00	1.04		mg/Kg		104	70 - 130		
Xylenes, Total			3.00	3.12		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12395/1-A
Matrix: Solid
Analysis Batch: 12456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12395

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/17/24 11:37	09/18/24 15:03	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/17/24 11:37	09/18/24 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:03*	*1*

Lab Sample ID: LCS 885-12395/2-A
Matrix: Solid
Analysis Batch: 12456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12395

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.5		mg/Kg		97	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12383/1-A
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12383

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/17/24 10:01	09/17/24 10:39	1

Lab Sample ID: LCS 885-12383/2-A
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12383

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.7		mg/Kg		99	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

GC VOA

Prep Batch: 12318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	5030C	
MB 885-12318/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12318/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12318/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11754-1 MS	BGT Composite	Total/NA	Solid	5030C	
885-11754-1 MSD	BGT Composite	Total/NA	Solid	5030C	

Analysis Batch: 12552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	8015M/D	12318
MB 885-12318/1-A	Method Blank	Total/NA	Solid	8015M/D	12318
LCS 885-12318/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12318
885-11754-1 MS	BGT Composite	Total/NA	Solid	8015M/D	12318
885-11754-1 MSD	BGT Composite	Total/NA	Solid	8015M/D	12318

Analysis Batch: 12556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	8021B	12318
MB 885-12318/1-A	Method Blank	Total/NA	Solid	8021B	12318
LCS 885-12318/3-A	Lab Control Sample	Total/NA	Solid	8021B	12318

GC Semi VOA

Prep Batch: 12395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	SHAKE	
MB 885-12395/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12395/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	8015M/D	12395
MB 885-12395/1-A	Method Blank	Total/NA	Solid	8015M/D	12395
LCS 885-12395/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12395

HPLC/IC

Prep Batch: 12383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	300_Prep	
MB 885-12383/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12383/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 12410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11754-1	BGT Composite	Total/NA	Solid	300.0	12383
MB 885-12383/1-A	Method Blank	Total/NA	Solid	300.0	12383
LCS 885-12383/2-A	Lab Control Sample	Total/NA	Solid	300.0	12383

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Unit 460 BGT Closure

Job ID: 885-11754-1

Client Sample ID: BGT Composite

Date Collected: 09/12/24 12:00
Date Received: 09/13/24 07:15

Lab Sample ID: 885-11754-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015M/D		1	12552	AT	EET ALB	09/18/24 16:02
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 16:02
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015M/D		1	12456	EM	EET ALB	09/18/24 15:25
Total/NA	Prep	300_Prep			12383	EH	EET ALB	09/17/24 10:01
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 14:41

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-11754-1
Project/Site: Unit 460 BGT Closure

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp Energy
Attn: Samantha Graubert
Mailing Address:
Phone #:
email or Fax#: samantha.graubert@hilcorp.com
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5DAY
☒ Standard ☐ Rush
Project Name: UNIT 460 BGT Closure
Project #:
Project Manager: Stuart Hyde
Sampler: AL
On Ice: ☒ Yes ☐ No
# of Coolers: 1 MO,O
Cooler Temp(including CF): 1.6+0.1=1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871
Tel. 505-345-3975 Fax 505-345-4107

885-11754 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/12/24	1200	SOIL	BGT COMPOSITE	1-4oz	COOL	1	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/12/24	2130 PM	Aaron Lancman				
9/12/24	1830				9/13/24	7:15

Remarks:

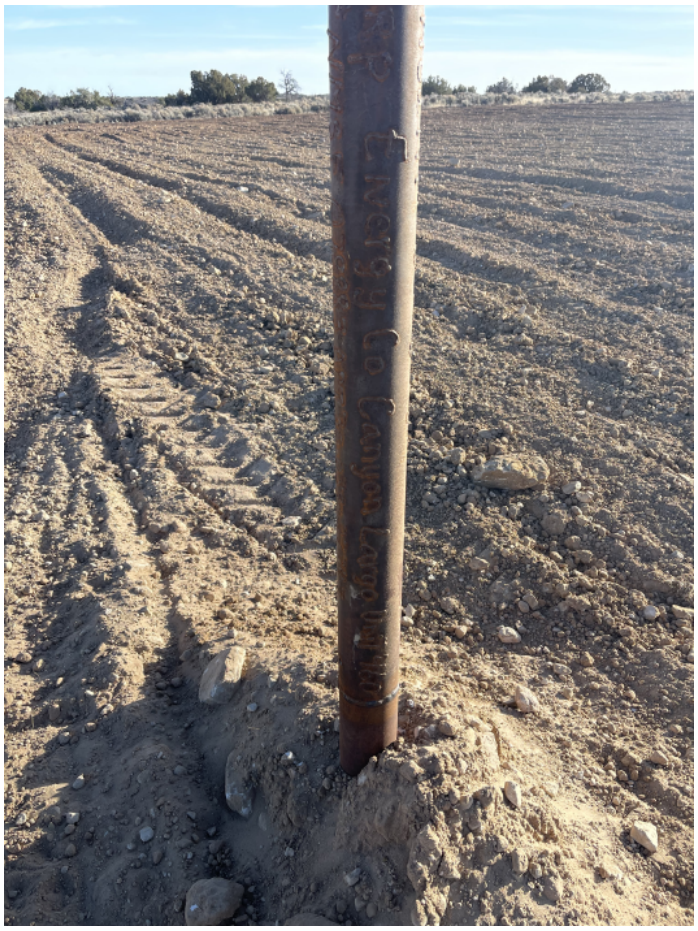
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

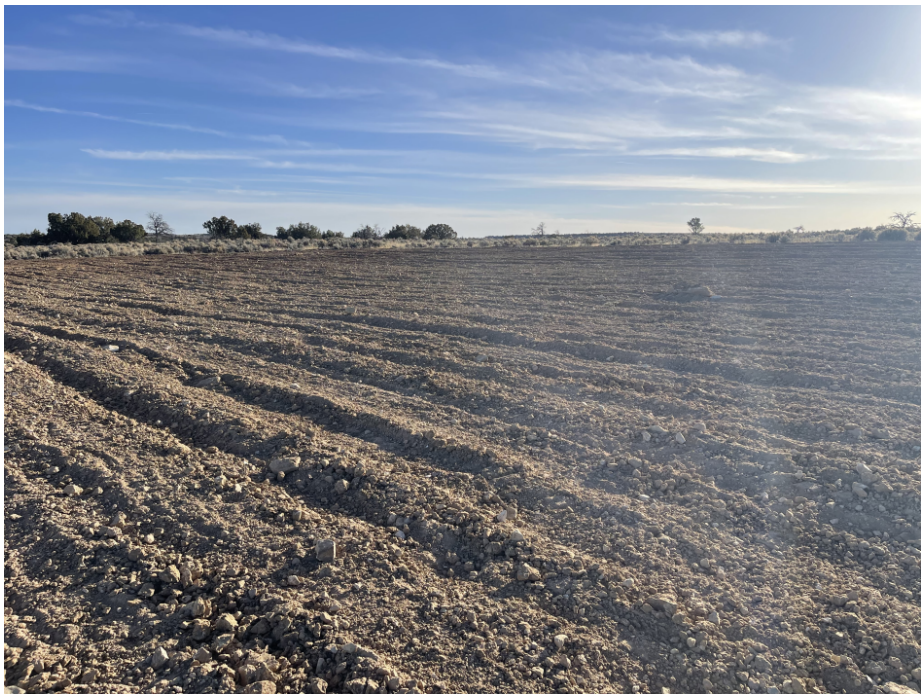
Login Sample Receipt Checklist

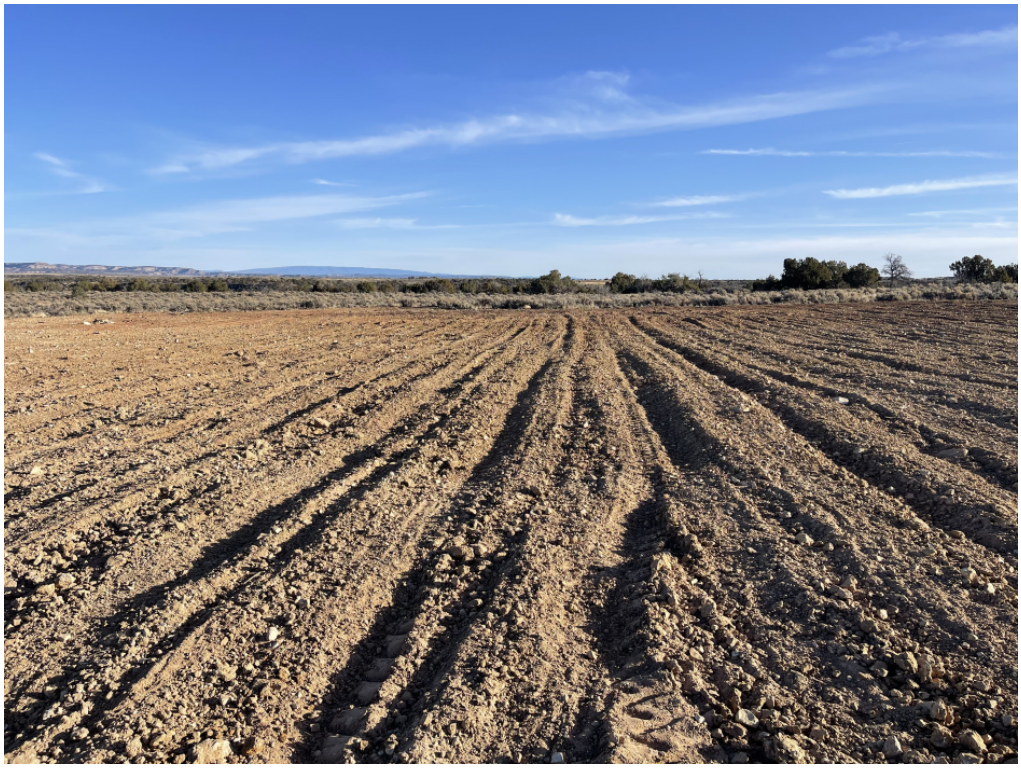
Client: Hilcorp Energy Job Number: 885-11754-1

Login Number: 11754 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	


Eddy County Texas





Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 419785
	Action Type: [C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	None	1/13/2025