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.

<u>Pit, Below-Grade Tank, or</u> 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.
1. Operator: Hilcorp Energy Company OGRID #: 372171
Address: 382 Road 3100 Aztec, NM 87410
Facility or well name: Lodewick 5
API Number: OCD Permit Number:
U/L or Qtr/Qtr M Section 19 Township 27N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.55598 Longitude -107.83451 NAD27
Surface Owner: Federal 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
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
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

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	
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 acceptance 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. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> 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).	☐ Yes ⊠ No
- 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;. 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.	☐ Yes ☐ No
- 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 doc 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 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
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 dot attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Departing 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:	

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 a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box, that the description is a check mark in the box is a check mark in the box.	documents are
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan	documents are
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 Flandstructive 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	uid Management Pit
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. □ 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	
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 provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 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 a	approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-I	Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of C Society; Topographic map	Geology & Mineral Resources; USGS; NM Geological	
Within a 100-year floodplain.		Yes No
- FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached. □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirem □ Construction/Design Plan of Burial Trench (if applicable) based upor □ Construction/Design Plan of Temporary Pit (for in-place burial of a dr □ Protocols and Procedures - based upon the appropriate requirements of Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements □ Disposal Facility Name and Permit Number (for liquids, drilling fluid: □ Soil Cover Design - based upon the appropriate requirements of Subset □ Re-vegetation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate requirements of Subset □ Site Reclamation Plan - based upon the appropriate Plan - Site Plan - Site Plan - Site Plan -	ate requirements of 19.15.17.10 NMAC ents of Subsection E of 19.15.17.13 NMAC in the appropriate requirements of Subsection K of 19.15.17.17 rying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC ate requirements of 19.15.17.13 NMAC ents of 19.15.17.13 NMAC es and drill cuttings or in case on-site closure standards cannot be to the foliation of 19.15.17.13 NMAC election H of 19.15.17.13 NMAC election H of 19.15.17.13 NMAC	.11 NMAC .15.17.11 NMAC
Operator Application Certification:		
I hereby certify that the information submitted with this application is true, a	accurate and complete to the best of my knowledge and bel	ief.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure	Report ure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Jaclyn Burdine	Approval Date: <u>01/09/</u>	2022
Title: Environmental Specialist-A	OCD Permit Number: BGT1	
19. Closure Report (required within 60 days of closure completion): 19.15.1 Instructions: Operators are required to obtain an approved closure plan p. The closure report is required to be submitted to the division within 60 day section of the form until an approved closure plan has been obtained and t	rior to implementing any closure activities and submitting s of the completion of the closure activities. Please do not	
20. Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ A ☐ If different from approved plan, please explain.	Iternative Closure Method Waste Removal (Closed-lo	oop systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the followi	ing items must be attached to the clasure report. Please in	idicate, by a check

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.

Date: <u>1/9/2023</u>

ame (Print): _____ Amanda Walker _____ Title: ____ Operations/Regulatory Technician - Sr

e-mail address: mwalker@hilcorp.com Telephone: (346) 237-2177

Hilcorp Energy Company San Juan Basin Below Grade Tank Closure Report

Lease Name: Lodewick 5 API No.: 30-045-06331

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.

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 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 revegetate 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. (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)

Kandis Roland

From: Kandis Roland

Sent: Friday, October 7, 2022 8:40 AM

To: jaclyn.burdine1@state.nm.us; leighp.Barr@state.nm.us; rjoyner@blm.gov; Emmanuel

Adeloye (BLM BGT Closure) (aadeloye@blm.gov)

Cc: Eufracio Trujillo; Mandi Walker; Kandis Roland; Lisa Jones; Keri Hutchins; Kate Kaufman;

Brandon Sinclair; Joey Becker

Subject:72 Hour Notice - Lodewick 5 - 30-045-06331 (Area 6)Attachments:30045063310000_Lodewick 5_BGT Permit_OCD Appvd.pdf

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Friday, October 14, 2022 at approximately 9:00 AM

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

Well Name: LODEWICK 5

API#: 3004506331

Location: Unit M, Section 19, T027N, R009W

Footages: 990' FSL & 990' FWL

Operator: Hilcorp Energy Surface Owner: BLM

Reason: Well is to be P&A'd

Please forward to anyone that I may have missed.

Thanks,

Kandis Roland
HILCORP ENERGY
San Juan East/South Regulatory
713.757.5246
kroland@hilcorp.com

Lodewick 5 – Pre Closure Photos







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	

I Release Notification

Responsible Party

Responsible Party: Hilcorp Energy					OGRID 372171			
Contact Name: Kate Kaufman					Contact Telephone: 346-237-2275			
Contact email: kkaufman@hilcorp.com					Incident	# (assigned by O	CD)	
Contact m	ailing addre	ss: 1111 Travis S	t. Houston, TX	77471	I			
Latitude	36.5559	98		ion of R	Longitude	-107.83451_		
Site Name:	Lodewick	5			Site Type	: Well Site		
Date Relea	se Discovere	ed: 10/21/2022			API# (if ap	oplicable) 30-045	5-06331	
Unit Letter	Section	Township	Range		Count	y	7	
M	19	027N	009W	San Ju		<u>, </u>	-	
						c justification for	the volumes provided below)	
Crude		Volume Release		attach carculat	ions of specifi		ecovered (bbls)	
Produc	ed Water	Volume Relea	ased (bbls)			Volume Re	ecovered (bbls) 200	
			tration of dissolver >10,000 mg/l		e in the	☐ Yes ☐] No	
Conder	isate	Volume Relea				Volume Re	ecovered (bbls) 0	
☐ Natural	Gas	Volume Relea	ased (Mcf)			Volume Recovered (Mcf)		
Other (Unknown)	describe) hydrocarbon	_	ght Released (pro	ovide units))	Volume/W	eight Recovered (provide units)	
Cause of R		was discovered d	luring BGT perm	mit closure o	operations.	See attached	notes for additional details.	

Received by OCD: 1/9/2023 6:47:31 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	1 uge 13 0j 2
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release? If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?
☐ Yes ⊠ No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
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 <u>not</u> been undertaken, explain why:
This is a historic release and there was no active source at the time of discovery.
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:Kate Kaufman Title:Environmental Specialist
Signature: Date:10/25/2022
email:kkaufman@hilcorp.com Telephone:346-237-2275
OCD Only
Received by: Date:

Mandi Walker

From: Kate Kaufman

Sent: Monday, October 31, 2022 11:58 AM

To: Mandi Walker; Kandis Roland; Eufracio Trujillo

Subject: FW: [EXTERNAL] FW: 72 Hour Notice - Lodewick 5 - 30-045-06331 (Area 6)

See below – good to go on backfill for the Lodewick 5!

From: Burdine, Jaclyn, EMNRD < Jaclyn.Burdine1@emnrd.nm.gov>

Sent: Monday, October 31, 2022 11:45 AM To: Kate Kaufman < kkaufman@hilcorp.com>

Subject: RE: [EXTERNAL] FW: 72 Hour Notice - Lodewick 5 - 30-045-06331 (Area 6)

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

This is perfect, please move forward with the backfill and final closure process and submit what you have provided here in the closure report so that I can finalize the approval of this BGT closure.

Jackie Burdine

Environmental Specialist-Advanced – Administrative Permitting Program

ENVIRON Oil Consequation Division

EMNRD - Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
505.469.6769_Jaclyn.Burdine1@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Kate Kaufman <kkaufman@hilcorp.com>

Sent: Monday, October 31, 2022 9:42 AM

To: Burdine, Jaclyn, EMNRD < <u>Jaclyn.Burdine1@emnrd.nm.gov</u>>

Subject: [EXTERNAL] FW: 72 Hour Notice - Lodewick 5 - 30-045-06331 (Area 6)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Jaclyn,

We collected a sample for the BGT closure referenced below, and the results came back above the BGT permit closure criteria, but below the closure criteria noted in NMAC 19.15.25 Table 1. Per the guidance you provided for this situation, I have compiled the necessary siting criteria and will request a waiver from the BGT closure standards. I would like to get your approval of this waiver before we proceed with backfill and final pit closure.

Please see attached and let me know if you have any questions or require additional information.

Thank you

Kate

From: Kandis Roland < kroland@hilcorp.com>

Sent: Friday, October 7, 2022 8:40 AM

To: jaclyn.burdine1@state.nm.us; leighp.Barr@state.nm.us; rjoyner@blm.gov; Emmanuel Adeloye (BLM BGT Closure)

(aadeloye@blm.gov) <aadeloye@blm.gov>

Cc: Eufracio Trujillo <etrujillo@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Kandis Roland

Data table of soil contaminant concentrations

				Lodewick #5 Laboratory Results									
		Field VOC-		TDU	TDU	TDU		TPH as				T-4-1	
		Field VOCs by PID	Chloride	TPH as DRO	TPH as GRO	TPH as MRO	Total TPH	GRO + DRO	Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX
Sample Name	Sample Date		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
19.15.29 Tal	20,000	-	-	-	2,500	1,000	10	-	-	-	50		
BGT Perm	it Closure Crite	ria	250	-	-	-	100	-	0.2	-	-	-	50
BGT Closure													
Sample	10/14/22	-	5,000	18	ND	ND	18	18	ND	ND	ND	ND	ND

Analytical results show chloride levels exceeded BGT permit closure criteria but are below closure criteria noted in NMAC 19.15.29 Table 1.

Hilcorp requests a variance from the BGT permit closure standards, as adherence to current regulatory standards offers equal or better protection of water resources, public health and the environment.

Depth to groundwater determination.

LODEWICK 5

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LODEWICK 5', which is located at 36.55598 degrees North latitude and 107.83451 degrees West longitude. This location is located on the Huerfanito Peak 7.5' USGS topographic quadrangle. This location is in section 19 of Township 27 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Blanco, located 11.6 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 24.0 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 6.7 miles to the southwest. The location is on BLM land and is 7,618 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 2000 meters or 6560 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 463 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,009 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,542 feet to the south. The nearest water body is 1,526 feet to the south. It is classified by the USGS as an intermittent lake and is 1.0 acres in size. The nearest spring is 15,116 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 14,760 feet to the southeast. The nearest wetland is a 131.9 acre Ravine located 5.986 feet to the southeast. The slope at this location is 2 degrees to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Doak-Sheppard-Shiprock association, rolling and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 24.6 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

11	ownship: 2	7N	Range	: 1	0W	Section	S:						
NAI	027 X:		Y:			Zone:		_	Searc	h Radiu	18:	-	
County:	-	Basin					¥	Numl	per:		Suffix:		-
Owner Name:	(First)			- (Last)			- (Non-D	omestic	C Dom	nestic 6	All
POD/S	urface Data R		Clear	For		Depth to			Help	Wat	ter Column	Report	_
POD / S	urface Data R		Clear		m		RS Mer	nu]			ter Column	Report	
POD / S	(quartex	es are	e 1=N	w :	m	COLUMN 3=SW 4=S	RS Mer	nu]		08			
	(quartex	es are	e 1=N	w :	m	COLUMN	RS Mer	nu]			Depth	Water	(in
POD Number	(quarter	rs are	a 1=N a big Sec	w :	WATER	COLUMN 3=SW 4=S smalles	RS Mer	nu]	20/200	08 Depth			(in
POD Number	(quarter (quarter Tws	rs are Rng 10W	e 1=N e big Sec	w :	WATER	COLUMN 3=SW 4=S smalles	RS Mer	nu]	20/200	08 Depth Well	Depth Water	Water Column	(in

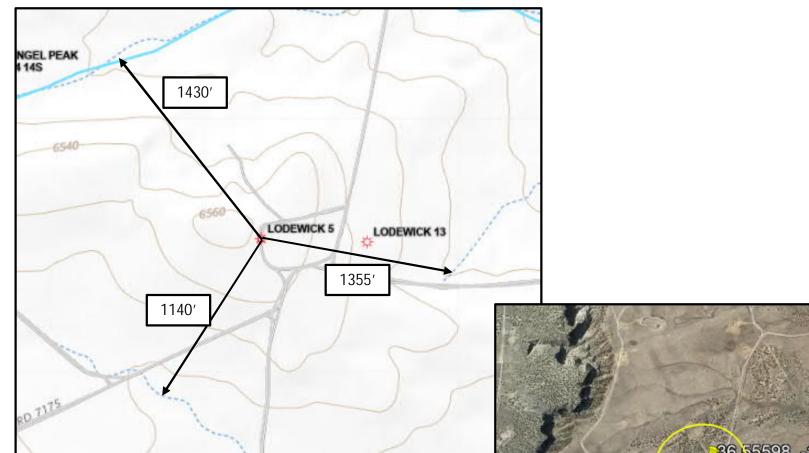
New Mexico Office of the State Engineer

Received by OCD: 1/9/2023 6:47:31 AM

POD Waters

Wetlands

NMAC 19.15.29 Siting Criteria for Closure Standards



BGT is not shown to be within:

- 300 ft of any continuously flowing watercourse or any other significant water course.
- 200 feet of any lakebed, sinkhole or playa lake
- 300 feet of any occupied permanent residence
- 500 feet of a spring or private, domestic fresh water well.
- 1000 feet of any fresh water well
- 300 feet of a wetland
- Incorporated municipal boundaries
- Overlying a subsurface mine
- An unstable area
- A 100-year floodplain



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 21, 2022

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Lodewick 5 OrderNo.: 2210779

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2210779**Date Reported: **10/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Bottom Comp

Project: Lodewick 5 Collection Date: 10/14/2022 9:25:00 AM

Lab ID: 2210779-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	18	15	mg/Kg	1	10/17/2022 2:53:54 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/17/2022 2:53:54 PM
Surr: DNOP	126	21-129	%Rec	1	10/17/2022 2:53:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	10/15/2022 8:38:09 PM
Surr: BFB	99.9	37.7-212	%Rec	1	10/15/2022 8:38:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.015	mg/Kg	1	10/15/2022 8:38:09 PM
Toluene	ND	0.031	mg/Kg	1	10/15/2022 8:38:09 PM
Ethylbenzene	ND	0.031	mg/Kg	1	10/15/2022 8:38:09 PM
Xylenes, Total	ND	0.062	mg/Kg	1	10/15/2022 8:38:09 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	10/15/2022 8:38:09 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	5000	300	mg/Kg	100	10/18/2022 7:02:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

2210779

WO#:

21-Oct-22

Client: HILCORP ENERGY

Project: Lodewick 5

Sample ID: MB-70880 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70880 RunNo: 91872

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294593 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70880 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70880 RunNo: 91872

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294594 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

2210779 21-Oct-22

WO#:

Client: HILCORP ENERGY

Project: Lodewick 5

Sample ID: MB-70853 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70853 RunNo: 91838

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3293382 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 118 21 129

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

2210779 21-Oct-22

WO#:

Client: HILCORP ENERGY

Project: Lodewick 5

Surr: BFB

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G91823 RunNo: 91823

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292452 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: G91823 RunNo: 91823

1800

Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292453 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.6 72.3 137

183

37.7

212

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210779**

21-Oct-22

Client: HILCORP ENERGY

Project: Lodewick 5

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B91823** RunNo: 91823 Prep Date: Analysis Date: 10/15/2022 SeqNo: 3292501 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.94 1.000 93.6 70 130

Sample ID: 100ng btex lcs	Samp	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS Batch ID: B91823				RunNo: 91823						
Prep Date:	Analysis [Date: 10	/15/2022	SeqNo: 3292502			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

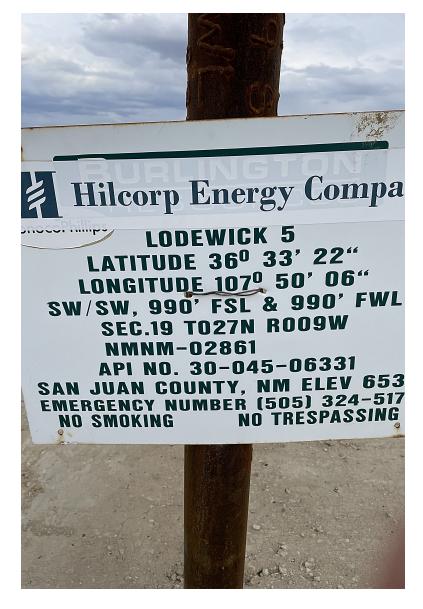
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	HILCORP ENERGY	Work Order Nu	ımber: 2210779		RcptNo	: 1
Received By:	Cheyenne Cason	10/15/2022 8:40:	:00 AM	Chul		
Completed By:	Cheyenne Cason	10/15/2022 9:21		Chul		
Reviewed By:	an 10/15/202	.2		and		
Chain of Cust	ody					
1. Is Chain of Cu	stody complete?		Yes 🗸	No 🗆	Not Present	
2. How was the s	ample delivered?		Courier		Not resem _	
Log In						
3. Was an attemp	ot made to cool the samples	?	Yes 🗸	No 🗌	NA 🗆	
4. Were all sample	es received at a temperatur	e of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in pr	oper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample	le volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (ex	cept VOA and ONG) prope	rly preserved?	Yes 🗸	No 🗆		
	re added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at leas	st 1 vial with headspace <1/	4" for AQ VOA?	Yes	No 🗌	NA 🗹	
	le containers received broke		Yes	No 🗹	INA 💌	
11. Does paperwork	match bottle labels?		Yes 🗸	No 🗌	# of preserved bottles checked for pH:	
	cies on chain of custody) rectly identified on Chain of					12 unless noted)
13 Is it clear what a	nalyses were requested?	Custody?	Yes 🗸	No 📙	Adjusted?	
	times able to be met?		Yes 🗸	No 📙		
(If no, notify cust	omer for authorization.)		Yes 🗸	No 📙	Checked by	u 10/15/2
Special Handling	g (if applicable)					
15. Was client notifie	ed of all discrepancies with	this order?	Yes	No 🗌	NA 🗸	
Person No	tified:	Date:		Train and the second		
By Whom:		Via:	eMail Pr	none Fax	In Person	
Regarding: Client Instr						
16. Additional remar	2					
17. Cooler Information	tion Temp °C Condition Se	al Intact Seal No	Seal Date S	Signed By		

Page 1 of 1





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 173754

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	173754
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created B	y Condition	Condition Date
jburdine	None	1/9/2023