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 *Page 1 of 27* 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,</u> ]	Below-Gr	ade Ta	<u>nk, o</u>	<u>r</u>		
	Proposed Alternative Method Permit or Closure Plan Application								
BGT1	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								
	or proposed alter			<i>10</i>	in e	, P <b>e</b>	r -		due unit,
	Instructions: Plea	se submit or	ne application (	(Form C-144)	per individ	ual pit, l	below-grade tan	k or alternative reque	2st
environment. Nor d								of surface water, groun l authority's rules, regu	
1. Operator:	Hilcorp Energy C	Company				OGRII	) #:	372171	
	382 Road 3100								
	ame: <u>Cain 10</u>								
API Number:	30-045-07428			OCD Peri	<mark>mit Numbe</mark>	er:			
U/L or Qtr/Qtr _	M Section	1 <u>15</u>	Township	28N	Range	10W	<u>County: San J</u>	luan	
Center of Propose	ed Design: Latitude	36.6578	47		_Longitude	e	-107.888481	NAD83	
Surface Owner: [	🛛 Federal 🗌 State [	Private	Tribal Trust	or Indian Allot	ment				
Temporary: Permanent Lined Un String-Reinfor	lined Liner type:	er vitation □ Thickness _	P&A 🗌 Multi mil	LLDPE	] HDPE [	] PVC	Other	le Drilling Fluid □ y  ons: L x W	
Volume: Tank Constructio Secondary co Visible sidew	tank:       Subsection         120       bł         n material:          ontainment with leak         valls and liner       N         sness	bl Type of f <u>Metal</u> detection [ Visible sidew	fluid:	ewalls, liner, 6-	inch lift an	id autom	atic overflow shu	ut-off	
4. Alternative M Submittal of an ex-		equired. E	xceptions must	be submitted to	) the Santa	Fe Envi	ronmental Burea	u office for considera	tion of approval.
Chain link, siz	<i>rch)</i> ht, four strands of b	strands of ba	arbed wire at to	op (Required if	located wit			) nent residence, schoo	l, hospital,

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)

#### 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:

7.

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.

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	☐ 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
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	□ Yes □ No
Within a 100-year floodplain. ( <b>Does not apply to below grade tanks</b> ) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 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.	Yes No

Form C-144 Released to Imaging: 8/30/2023 10:33:41 AM

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

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<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<u>Temporary Pit Non-low chloride drilling fluid</u>				
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>				
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No			
10. <b>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:</b> Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.</i> 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 19.15.17.10 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:	cuments are 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 documents are attached.				
Previously Approved Design (attach copy of design) API Number: or Permit Number: _				

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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 or 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         Remergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	locuments are
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 FI         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	uid Management Pit
<ul> <li>14.</li> <li><u>Waste Excavation and Removal Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>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.</i></li> <li>□ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>□ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>□ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>□ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>□ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>□ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	nttached to the
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 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
<ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ Yes ☐ No ☐ NA
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗌 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	6 <i>c</i>

Oil Conservation Division

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<ul> <li>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	Yes No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological</li> </ul>	
Society; Topographic map	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	Yes No
<ul> <li>16.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canned Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	11 NMAC 5.17.11 NMAC
<ul> <li>17.</li> <li>Operator Application Certification:</li> <li>I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belied</li> </ul>	ef.
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: Victoria Venegas Report Approval Date:08/30,	/2023
Title:     Environmental Specialist     OCD Permit Number:     BGT1	
<ul> <li>19.</li> <li>Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC</li> <li>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting</li> <li>The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.</li> <li>Closure Completion Date: 6/8/2023</li> </ul>	
20. Closure Method: Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)
21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please ind         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	licate, by a check

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#### 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):	Amanda Walker	Title: <u>Operations/Regulatory Technician – Sr</u>
	Aller	
Signature:	Jewald	Date: 8/23/2023
e-mail address:	mwalker@hilcorp.com	Telephone: 346-237-2177

### Hilcorp Energy Company San Juan Basin Below Grade Tank Closure Report

### Lease Name: Cain 10 API No.: 30-45-07428

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:

 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.

 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 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 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, 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)

### Mandi Walker

Mandi Walker
Monday, June 5, 2023 10:38 AM
Abiodun Adeloye; Brandon Sinclair; Clara Cardoza; Eufracio Trujillo; Cheryl Weston;
Kate Kaufman; Keri Hutchins; I1thomas@blm.gov; Wells, Shelly, EMNRD
Kelly Davidson; Shad Brown; Dale Crawford
72 hr BGT Closure Notice - Cain 10
Cain 10_BGT CP ONLY_OCD Appvd.pdf
Flag for follow up
Monday, July 24, 2023 2:00 PM
Flagged

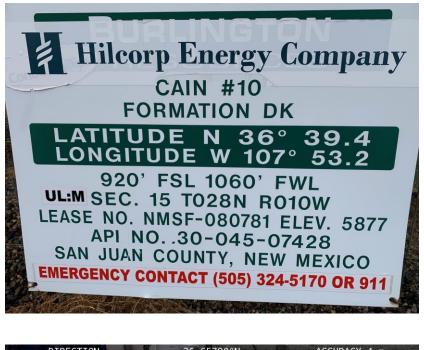
The subject well has a below-grade tank that will be permanently removed. The BGT Permit is attached. Please contact me at any time if you have any questions or concerns.

Well Name: Cain 10 API#: 3004507428 Location: M, 15, 28N, 10W Footages: 920' FSL & 1060' FWL Surface Owner: BLM Reason for Removal: Well P&A'd Scheduled Date & Time of Start: Thursday June 8<sup>th</sup> @ 12 pm

\*\*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.

## Mandi Walker

San Juan North/South (6,7) Regulatory Technician Hilcorp Energy 346.237.2177 <u>mwalker@hilcorp.com</u>









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

)

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Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party Hilcorp Energy Company	OGRID 372171		
Contact Name Amanda Walker	Contact Telephone (346) 237.2177		
Contact email mwalker@hilcorp.com	Incident # (assigned by OCD)		
Contact mailing address 382 Road 3100 Aztec NM 87410			

### **Location of Release Source**

Latitude <u>36.657847</u>

Longitude -107.888481 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Cain 10	Site Type Gas Well
Date Release Discovered N/A	API# (if applicable) 30-045-07428

Unit Letter	Section	Township	Range	County
М	15	28N	10W	San Juan

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		

Cause of Release

No release was encountered during the BGT Closure.

Received by OCL	): 8/23/2023 8:13:25	<sup>5</sup> AM State of New Mexico
$1011110^{-1}$		

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?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	N/A
If YES, was immediate ne	otice 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:	Amanda Walker	Title: Operations/Regulatory Technician – Sr.
Signature:	Mather	Date: <u>8/23/2023</u>
email:	mwalker@hilcorp.com	Telephone: (346) 237-2177
	-	
OCD Only		
Received by:		Date:



June 22, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Cain 10

OrderNo.: 2306516

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/9/2023 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

**CLIENT: HILCORP ENERGY** 

Cain 10

Analytical Report Lab Order 2306516

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2306516 Date Reported: 6/22/2023

Client Sample ID: Bottom Comp Collection Date: 6/8/2023 1:20:00 PM Received Date: 6/9/2023 7:20:00 AM

Lab ID: 2306516-001	Matrix: SOIL	Received Date: 6/9/2023 7:20:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGI	EORGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/16/2023 1:16:21 AM			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/16/2023 1:16:21 AM			
Surr: DNOP	78.3	69-147	%Rec	1	6/16/2023 1:16:21 AM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN			
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/18/2023 2:19:00 AM			
Surr: BFB	105	15-244	%Rec	1	6/18/2023 2:19:00 AM			
EPA METHOD 8021B: VOLATILES					Analyst: KMN			
Benzene	ND	0.023	mg/Kg	1	6/19/2023 4:17:00 PM			
Toluene	ND	0.046	mg/Kg	1	6/19/2023 4:17:00 PM			
Ethylbenzene	ND	0.046	mg/Kg	1	6/19/2023 4:17:00 PM			
Xylenes, Total	ND	0.093	mg/Kg	1	6/19/2023 4:17:00 PM			
Surr: 4-Bromofluorobenzene	99.6	39.1-146	%Rec	1	6/19/2023 4:17:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: SNS			
Chloride	ND	60	mg/Kg	20	6/15/2023 6:43:10 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCOR Cain 10	P ENERG	Y								
Sample ID:	MB-75634	SampT	ype: <b>ME</b>	BLK	Tes	stCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	n ID: <b>75</b>	634	F	RunNo: <b>97</b>	7471				
Prep Date:	6/15/2023	Analysis D	)ate: 6/	15/2023	S	SeqNo: 35	542367	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-75634	SampT	ype: LC	s	Tes	stCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch	n ID: 756	634	F	RunNo: <b>97</b>	471				
Prep Date:	6/15/2023	Analysis D	)ate: 6/	15/2023	Ş	SeqNo: 35	542368	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.0	90	110			

Qualifiers:

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2306516

22-Jun-23

WO#:

**Client:** 

### **QC SUMMARY REPORT** H

HILCORP ENERGY

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	WO#:	2306516	
Hall Environmental Analysis Laboratory, Inc.		22-Jun-23	

Project: Cain 10	AF ENERO I						
Sample ID: LCS-75592	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 75592	RunNo: 97480					
Prep Date: 6/14/2023	Analysis Date: 6/15/2023	SeqNo: 3541824	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Diesel Range Organics (DRO)	36 10 50.00	0 72.7 61.9	130				
Surr: DNOP	4.7 5.000	93.7 69	147				
Sample ID: MB-75592	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 75592	RunNo: 97480					
Prep Date: 6/14/2023	Analysis Date: 6/15/2023	SeqNo: 3541827	Units: <b>mg/Kg</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
iesel Range Organics (DRO)	ND 10						
Iotor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.7 10.00	96.5 69	147				
Suit. DNOF	9.7 10.00	90.0 09	147				
Sample ID: LCS-75600	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 75600	RunNo: 97480					
Prep Date: 6/14/2023	Analysis Date: 6/15/2023	SeqNo: 3542195	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	4.2 5.000	83.4 69	147				
Sample ID: MB-75600	SampType: <b>MBLK</b>	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 75600	RunNo: 97480					
Prep Date: 6/14/2023	Analysis Date: 6/15/2023	SeqNo: 3542197	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	8.1 10.00	80.6 69	147				
Sample ID: LCS-75609	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 75609	RunNo: 97521					
Prep Date: 6/15/2023	Analysis Date: 6/16/2023	SeqNo: 3546967	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Surr: DNOP	5.0 5.000	100 69	147				
Sample ID: LCS-75623	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 75623	RunNo: 97521					
Prep Date: 6/15/2023	Analysis Date: 6/16/2023	SeqNo: 3546969	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

- В Analyte detected in the associated Method Blank
  - Above Quantitation Range/Estimated Value
- Holding times for preparation or analysis exceeded
- Н ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Е
- Analyte detected below quantitation limits
- J
- Р Sample pH Not In Range
- Reporting Limit RL

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORI Cain 10	PENERGY	(								
Sample ID:	LCS-75644	SampTy	/pe: <b>L(</b>	CS	Tes	tCode: E	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch	ID: 75	644	F	RunNo: 9	7521		-	-	
Prep Date:	6/15/2023	Analysis Da	ate: 6/	/16/2023	Ş	SeqNo: 3	546970	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		5.000		96.0	69	147			
Sample ID:	MB-75609	SampTy	/pe: <b>M</b> I	BLK	Tes	tCode: E	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 75	609	F	RunNo: 9	7521		_	-	
Prep Date:	6/15/2023	Analysis Da	ate: 6	/16/2023	S	SeqNo: 3	546972	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		112	69	147			
Sample ID:	MB-75623	SampTy	/pe: <b>M</b> I	BLK	Tes	tCode: E	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 75	623	F	RunNo: <b>9</b>	7521				
Prep Date:	6/15/2023	Analysis Da	ate: 6/	/16/2023	S	SeqNo: 3	546974	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.9		10.00		99.3	69	147			
Sample ID:	MB-75644	SampTy	/pe: <b>M</b> I	BLK	Tes	tCode: E	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 75	644	F	RunNo: <b>9</b>	7521				
Prep Date:	6/15/2023	Analysis Da	ate: 6/	/16/2023	S	SeqNo: 3	546975	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.3		10.00		93.3	69	147			

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 standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2306516

22-Jun-23

WO#:

# **QC SUMMARY REPORT** Hall Enviro

Page	20	of 27

MARI KEPURI	WO#:	2306516	
onmental Analysis Laboratory, Inc.		22-Jun-23	

Client:	HILCOR	P ENERGY	7								
Project:	Cain 10										
Sample ID:	lcs-75583	SampTy	/pe: <b>LC</b>	s	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	LCSS	Batch	ID: 75	583		RunNo: <b>9</b>			•		
Prep Date:	6/14/2023	Analysis Da	ate: 6/	16/2023	S	SeqNo: 3	543011	Units: mg/Kg	3		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	97.6	70	130			
Surr: BFB		2200		1000		216	15	244			
Sample ID:	mb-75583	SampTy	/pe: MB	BLK	Tes	tCode: El	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	PBS	Batch	ID: 75	583	F	RunNo: <b>9</b>	7501				
Prep Date:	6/14/2023	Analysis Da	ate: 6/	16/2023	S	SeqNo: 3	543012	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		970		1000		96.9	15	244			
Sample ID:	lcs-75597	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	LCSS	Batch	ID: 75	597	F	RunNo: <b>9</b> 7	7537				
Prep Date:	6/14/2023	Analysis Da	ate: 6/	18/2023	S	SeqNo: 3	544808	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2100		1000		215	15	244			
Sample ID:	mb-75597	SampTy	/pe: MB	BLK	Tes	tCode: El	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	PBS	Batch	ID: 75	597	F	RunNo: <b>9</b>	7537				
Prep Date:	6/14/2023	Analysis Da	ate: 6/	18/2023	S	SeqNo: 3	544809	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		103	15	244			
Sample ID:	lcs-75614	SampTy	/pe: LC	:S	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch	ID: 75	614	F	RunNo: <b>9</b>	7537				
Prep Date:	6/15/2023	Analysis Da	ate: 6/	18/2023	S	SeqNo: 3	545009	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		Result	FQL	Of it value							
		2200	FQL	1000		217	15	244			
Sample ID:	mb-75614			1000	Tes			244 8015D: Gasoli	ne Range	1	
	mb-75614 PBS	2200 SampTy		1000 BLK			PA Method		ne Range	!	
Sample ID:		2200 SampTy	/pe: <b>MB</b> ID: <b>75</b>	1000 BLK 614	F	tCode: El	PA Method 7537		ne Range		
Sample ID: Client ID:	PBS	2200 SampTy Batch	/pe: <b>MB</b> ID: <b>75</b>	1000 BLK 614 18/2023	F	tCode: El	PA Method 7537	8015D: Gasoli	ne Range %RPD	RPDLimit	Qual

**Qualifiers:** 

Н

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

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- Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORI Cain 10	P ENERGY								
Sample ID:	lcs-75597	SampType	LCS	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch ID:	75597	R	RunNo: <b>97</b>	7558				
Prep Date:	6/14/2023	Analysis Date:	6/19/2023	S	SeqNo: 35	545956	Units: %Rec			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2200	1000		222	15	244			
Sample ID:	mb-75597	SampType	MBLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID:	75597	R	RunNo: <b>97</b>	7558				
Prep Date:	6/14/2023	Analysis Date:	6/19/2023	S	SeqNo: 35	545957	Units: %Rec			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000	1000		99.9	15	244			

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2306516

22-Jun-23

WO#:

Cain 10

**Client:** 

**Project:** 

Client ID:

Prep Date:

Analyte

Benzene Toluene

Ethylbenzene

Xylenes, Total

Sample ID: Ics-75583

LCSS

6/14/2023

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Result

0.98

0.98

0.98

2.9

SampType: LCS

Batch ID: 75583

Analysis Date: 6/16/2023

PQL

0.025

0.050

0.050

0.10

SPK value

1.000

1.000

1.000

3.000

SPK Ref Val

0

0

0

0

HILCORP ENERGY

1.0

Surr: 4-Bromofluorobenzene	0.95	1.000		95.5	39.1	146			
Sample ID: mb-75583	SampType: MI	BLK	Test	Code: EP/	A Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 75	583	R	unNo: 975	501				
Prep Date: 6/14/2023	Analysis Date: 6/	16/2023	S	eqNo: 354	43044	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.025								
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Xylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	0.93	1.000		93.3	39.1	146			
Sample ID: Ics-75597	SampType: LC	S	Test	Code: EP/	A Method	8021B: Volati	les		
Client ID: LCSS	Batch ID: 75	597	R	unNo: 975	537				
Prep Date: 6/14/2023	Analysis Date: 6/	18/2023	S	eqNo: 354	44873	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95	1.000		94.7	39.1	146			
Sample ID: mb-75597	SampType: MI	BLK	Test	Code: EP/	A Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 75	597	R	unNo: <b>97</b> 5	537				
Prep Date: 6/14/2023	Analysis Date: 6/	18/2023	S	eqNo: 354	44874	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92	1.000		92.3	39.1	146			
Sample ID: Ics-75614	SampType: LC	S	Test	Code: EPA	A Method	8021B: Volati	les		
Client ID: LCSS	Batch ID: 75	614	R	unNo: 975	537				
Prep Date: 6/15/2023	Analysis Date: 6/	18/2023	S	eqNo: 354	45011	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

TestCode: EPA Method 8021B: Volatiles

LowLimit

70

70

70

70

Units: mg/Kg

130

130

130

130

%RPD

RPDLimit

HighLimit

RunNo: 97501

%REC

98.0

98.2

97.8

97.7

SeqNo: 3543043

Surr: 4-Bromofluorobenzene

#### **Qualifiers:**

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- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank

103

39.1

146

- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Limit RL

1.000

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#### WO#: 2306516 22-Jun-23

Qual

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORE	PENERGY	7								
Project:	Cain 10										
Sample ID:	mb-75614	SampTy	/pe: <b>M</b>	BLK	Tes	tCode: EF	A Method	8021B: Volatil	es		
Client ID:	PBS	Batch	ID: 75	5614	F	RunNo: <b>97</b>	7537				
Prep Date:	6/15/2023	Analysis Da	ate: 6	/18/2023	S	SeqNo: 35	545012	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.0		1.000		100	39.1	146			
Sample ID:	lcs-75597	SampTy	/pe: <b>L(</b>	cs	Tes	tCode: EF	A Method	8021B: Volatil	es		
Client ID:	LCSS	Batch	ID: 75	5597	F	RunNo: <b>97</b>	7558				
Prep Date:	6/14/2023	Analysis Da	ate: 6	/19/2023	S	SeqNo: 35	546026	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.0		1.000		99.7	39.1	146			
Sample ID:	mb-75597	SampTy	/pe: <b>M</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID:	PBS	Batch	ID: 75	5597	F	RunNo: <b>97</b>	7558				
Prep Date:	6/14/2023	Analysis Da	ate: 6	/19/2023	S	SeqNo: 35	546027	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.95		1.000		95.2	39.1	146			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2306516

22-Jun-23

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-39	4901 Haw Ibuquerque, NM	kins NE 1 87109 45-4107	San	ple Log-In Check List
Client Name: HILCORP ENERGY	Work Order Numb	er: 2306516			RcptNo: 1
Received By: Cheyenne Cason	6/9/2023 7:20:00 AN	1	Che	1	
Completed By: Cheyenne Cason Reviewed By: M 6-9-23	6/9/2023 11:42:19 A	М	Ch	l	
Reviewed By: 6-9-23					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	Ν	lo 🗌	Not Present
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples	?	Yes 🔽	N	lo 🗌	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	Ν	lo 🗆	NA 🗀
5. Sample(s) in proper container(s)?		Yes 🗹	N	lo 🗌	
6. Sufficient sample volume for indicated test	s)?	Yes 🗹	N	•	
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗹	N	•	
8. Was preservative added to bottles?		Yes 🗌	N	o 🗹	NA 🗌
9. Received at least 1 vial with headspace <1.	/4" for AQ VOA?	Yes		• 🗆	NA 🗹
10. Were any sample containers received brok	en?	Yes ∐	Ν	lo 🗹	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	N	•	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	N	o 🗌	Adjusted?
13. Is it clear what analyses were requested?		Yes 🗹	N	•	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	N	•	checked by: 106/4/23
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	n this order?	Yes 🗌	٢	ło 🗌	
Person Notified:	Date:		owned a trade of the second	to management of the	
By Whom:	Via:	🗌 eMail 🗌	] Phone	🗌 Fax	In Person
Regarding:					
Client Instructions:					
16. Additional remarks:					
Client information not complete on C 17. <u>Cooler Information</u>	-0-0 VIJIZJ				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Seal Intact Seal No	Seal Date	Signe	d By	
1 2.6 Good Y	es Yogi		-		
Page 1 of 1					

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Received by OCD: 8/23/2023 8:13:25 AM	Turn-Around Time:	Page 25 of 27
Chain-of-Custody Record		HALL ENVIRONMENTAL
Client: Hilcorp	Candard Carbon	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address:	Cain 10	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: brandon. Sinclair@hileorp.com	Project Manager:	* <b>O</b> S
QA/QC Package:		s,8(
Standard     Level 4 (Full Validation)	Kate Kaytman	1507 1201 ( 1201 ( 120)
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	1 o	-VO tals 10 d 10 d 10 d
	Cooler Temp(Including CF): 2.6 -6-2.6 (°C)	15D( 9156) 9156) 9160) 9160) 9170 9160) 9170 910 910 910 910 910 910 910 910 910 91
	Container Preservative HEAL No.	94 18 M) 8 M) 8 Hs b S AA: T T T T T S ) 07 S ) 07
Date Time Matrix Sample Name	# Type 2.3	825 826 826 826 826 826
6-8 1320 Soil Bottom Comp	402 iar cool 001	
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6-8 [U34 Bud Bud	Lall upon	Kenarks:
Date: Time: Relinguished by:	Received by: Via: Date Time	
18/23 MSU / WANT / DAL	UMC COULIER COLOR 23 0720	
Released to Tmaging: 8/30/2023 10:33:41 AM	ubcontracted to other accredited laboratories. This serves as notice of th	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. Released to Tmaging: 830/2023 10:33:41 AM



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

District IV 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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	255773
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

#### CONDITIONS

Created By	Condition	Condition
		Date
vvenegas	None	8/30/2023

CONDITIONS

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Action 255773