District 1 1625 N. French Dr., Hobbs, NM 88240 <u>District III</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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.
D 141	Pit, Below-Grade Tank, or	
Proposed Alte	rnative Method Permit or Closure I	Plan Application NMOCD
⊠ Closur □ Modifi	of a pit or proposed alternative method e of a pit, below-grade tank, or proposed alternatic cation to an existing permit/or registration e plan only submitted for an existing permitted or	DISTRICT
Instructions: Please submit or	e application (Form C-144) per individual pit, below	-grade tank or alternative request
environment. Nor does approval relieve the operator of	t relieve the operator of liability should operations result i f its responsibility to comply with any other applicable go	in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
1. Operator: Hilcorp Energy Company	OGRID #:	372171
	1 87410	
	NIT 120	
API Number: 3003982242	OCD Permit Number:	
U/L or Otr/Otr I Section 09	Township <u>28N</u> Range <u>06W</u>	County: Rio Arriba
	308°NLongitude107.46	
Surface Owner: 🛛 Federal 🗌 State 🗌 Private		
	IAC P&A   Multi-Well Fluid Management L mil   LLDPE   HDPE  PVC  O	
Liner Seams: Welded Factory Other	Volume:bb	1 Dimensions: L x W x D
Tank Construction material:      Metal         Secondary containment with leak detection          Visible sidewalls and liner      Visible sidewalls	.11 NMAC luid:Produced Water Visible sidewalls, liner, 6-inch lift and automatic ov alls only ☐ Other ☐ HDPE ☐ PVC 🖾 OtherUnspecified	
4. Alternative Method: Submittal of an exception request is required. Ex	ceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.
	pplies to permanent pits, temporary pits, and below-gr	×
<i>institution or church)</i> Four foot height, four strands of barbed wire e	rbed wire at top <i>(Required if located within 1000 feet of</i> yenly spaced between one and four feet	oj a permanent residence, school, hospital,
Alternate. Please specify		

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Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

10.

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:

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 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells X NA Yes No Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NA NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes No adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No 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 **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes No from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Yes 🛛 No Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 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, Yes No 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 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial Yes No application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock Yes No watering purposes, or 300 feet 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

<ul> <li>Within<sup>1</sup>100 feet<sup>•</sup> 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
Temporary Pit Non-low chloride drilling fluid	
<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
Permanent Pit or Multi-Well Fluid Management Pit	
<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 <b>Instructions:</b> 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 Data (Temporary and Emergency Pits) - 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         Design 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 19.13.17.13 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number: or Permit Number:	cuments are NMAC 15.17.9 NMAC
II.       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 doc attached.            Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         A List of wells with approved application for permit to drill associated with the pit.         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.         and 19.15.17.13 NMAC         Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Previously Approved Design (attach copy of design) API Number: or Permit Number:	.15.17.9 NMAC

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 attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Guil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Cil Field Waste Stream Characterization         Coll Field Waste Stream Characterization         Coll Field Waste Stream Characterization         Coll Field Waste Stream Characterization         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC   <	documents 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 F	uid Management Pit
☐ Alternative Proposed Closure Method: ☑ Waste Excavation and Removal	
Waste Removal (Closed-loop systems only)	
<ul> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>In-place Burial</li> <li>On-site Trench Burial</li> </ul>	
Alternative Closure Method	
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.	attached to the
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.	
<ul> <li>Ground water is less than 25 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
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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No
Form C-144 Oil Conservation Division Page 4 or	f 6
Torrestration Division Tage 40.	

- Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 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 play 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.</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 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 cannot 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 15.17.11 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 beli</li> </ul>	
Name (Print):          Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address: Telephone: <u>OCD Approval</u> : Permit Application (including closure plan) <u>Closure Plan (only)</u> OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: J Title: OCD Permit Number:	
18.       OCD Approval:       Permit Application (including closure plan)       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Approval Date:       131	the closure report.
18.       OCD Approval:       Permit Application (including closure plan       Closure Plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Approval Date:       13.         Title:       Closure Report (required within 60 days of closure completion):       19.15.17.13 NMAC         Instructions:       Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting         The closure report 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.	the closure report. complete this

# 22. Operator Closure Certification:

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

Name (Print):	Tammy Jones	Title: Operations/Regulatory Technician – Sr.
Signature:	Tammy Smes	Date: 1/29/2019
e-mail address:	tajones@hilcorp.com	Telephone: <u>(505) 324-5185</u>

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

### Lease Name: San Juan 28-6 Unit 120 API No.: 3003982242

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:

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 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
ТРН	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. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

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

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

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

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

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

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

## **Tammy Jones**

From: Sent: To:	Tammy Jones Friday, January 11, 2019 8:16 AM Smith, Cory, EMNRD; Vanessa Fields - NMOCD (Vanessa.Fields@state.nm.us); Whitney Thomas - BLM (I1thomas@blm.gov); 'Adeloye, Abiodun'
Cc:	Lisa Jones; Juanita Farrell; Ashton Hemphill; Lindsay Dumas; Etta Trujillo
Subject:	72 Hour BGT Closure Notification - San Juan 28-6 Unit 120
Follow Up Flag:	Follow up
Flag Status:	Flagged

#### Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Wednesday, January 16<sup>th</sup> at approximately 8:00 a.m.

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name:	San Juan 28-6 Unit 120	
API#:	3003982242	
Location:	Unit I (NESE), Section 09,	T28N, R06W
Footages:	1530' FSL & 1145' FEL	
Operator:	Hilcorp	Surface Owner: FEDERAL (Lease #NMSF080505A)
Reason:	Re-setting AGT Facility	

Thank you,

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

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

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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	Tammy Jones	Contact Telephone (505) 324-5185
Contact email	tajones@hilcorp.com	Incident # (assigned by OCD)
Contact mailing add	ress 382 Road 3100 Aztec NM 87410	

## Location of Release Source

Latitude \_\_\_\_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name SAN JUAN 28-6 UNIT 120	Site Type Gas Well
Date Release Discovered N/A	API# (if applicable) 3003982242

Unit Letter	Section	Township	Range	County	
Ι	09	28N	06W	Rio Arriba	

Surface Owner: State Kederal Tribal Private (Name:

## Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
No release was encounter	red during the BGT Closure.	

Form	C-141
Page 2	

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	N/A
If YES, was immediate n	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:

N/A

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:	Tammy Jones	Title: Operations/Regulatory Technician – Sr.
Signature:	Tammy Saves	Date: 1/29/2019
email:	tajones@hilcorp.com	Telephone: (505) 324-5185
OCD Only		
Received by:		Date:



# ANALYTICAL REPORT

January 21, 2019

# HilCorp-Farmington, NM

Sample Delivery Group:	L1062020
Samples Received:	01/17/2019
Project Number:	
Description:	S.J. 28-6 #120
Site:	S.J. 28-6 #120
Report To:	Lindsay Dumas
	382 Road 3100
	Aztec, NM 87401

Entire Report Reviewed By: Napline & Richards

Daphne Richards Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

BGT CLOSURE L1062020-01 Solid			Collected by Kurt Hoekstra	Collected date/time 01/16/19 08:50	Received date/time 01/17/19 08:45	[
Method	Batch	Dilution	Preparation	Analysis	Analyst	L
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1225128	1	01/17/19 17:00	01/17/19 17:10	KDW	
Wet Chemistry by Method 9056A	WG1225387	1	01/19/19 09:00	01/19/19 17:21	ELN	
Volatile Organic Compounds (GC) by Method 8015/8021	WG1225408	1	01/18/19 08:24	01/18/19 13:17	DWR	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1225535	1	01/18/19 19:41	01/19/19 18:04	KME	

-

Тс

## CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Japline R Richards

Daphne Richards Project Manager

ACCOUNT:

DATE/TIME:

PAGE:

## BGT CLOSURE

#### SAMPLE RESULTS - 01 L1062020

ONE LAB. NATIONWIDE.

Collected date/time: 01/16/19 08:50

# Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.2		1	01/17/2019 17:10	WG1225128

### Wet Chemistry by Method 9056A

Analyte	%			date / time			2
Total Solids	87.2		1	01/17/2019 17:10	WG1225128	3	Tc
Wet Chemistry b	by Method 9056A						<sup>3</sup> Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		<sup>4</sup> Cn
Chloride	21.9	B	10.0	1	01/19/2019 17:21	WG1225387	CII

## Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg		date / time		
Benzene	0.000938		0.000500	1	01/18/2019 13:17	WG1225408	
Toluene	ND		0.00500	1	01/18/2019 13:17	WG1225408	7
Ethylbenzene	ND		0.000500	1	01/18/2019 13:17	WG1225408	
Fotal Xylene	ND		0.00150	1	01/18/2019 13:17	WG1225408	8
[PH (GC/FID) Low Fraction	ND		0.100	1	01/18/2019 13:17	WG1225408	U U
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		01/18/2019 13:17	WG1225408	E L
(S) a,a,a-Trifluorotoluene(PID)	94.8		72.0-128		01/18/2019 13:17	WG1225408	9

## Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	ND		4.00	1	01/19/2019 18:04	WG1225535	
C28-C40 Oil Range	ND		4.00	1	01/19/2019 18:04	WG1225535	
(S) o-Terphenyl	64.9		18.0-148		01/19/2019 18:04	WG1225535	

SDG:

Total Solids by Method 2540 G-2011

# QUALITY CONTROL SUMMARY

## Method Blank (MB)

	* *			
(MB) R3376873-1 01/	/17/19 17:10			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

## L1061950-01 Original Sample (OS) • Duplicate (DUP)

5		, , , ,	,	/				
(OS) L1061950-01 01/17/19	9 17:10 • (DUP) R	3376873-3 0	1/17/19 17:10	)				
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	%	%		%		%		
Total Solids	75.6	79.7	1	5.27		10		

## Laboratory Control Sample (LCS)

(LCS) R3376873-2 01/	17/19 17:10				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

GI

Wet Chemistry by Method 9056A

# QUALITY CONTROL SUMMARY

### Method Blank (MB)

(MB) R3377162-1 01	/19/19 16:53			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	3.10	J	0.795	10.0

## Laboratory Control Sample (LCS)

(LCS) R3377162-2 (	01/19/19 17:02				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	204	102	80.0-120	

-

Тс

Ss

⁺Cn

Sr

Volatile Organic Compounds (GC) by Method 8015/8021

### QUALITY CONTROL SUMMARY L1062020-01

### Method Blank (MB)

(MB) R3377188-5 01/18/19	11:39				
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	
Benzene	U		0.000120	0.000500	
Toluene	0.000179	Ţ	0.000150	0.00500	
Ethylbenzene	0.000228	J	0.000110	0.000500	
Total Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	97.5			72.0-128	

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3377188-1 01/18/19	09:53 • (LCSD)	) R3377188-2	01/18/19 10:15							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0466	0.0463	93.3	92.6	76.0-121			0.680	20
Toluene	0.0500	0.0484	0.0477	96.7	95.3	80.0-120			1.43	20
Ethylbenzene	0.0500	0.0498	0.0490	99.5	97.9	80.0-124			1.60	20
Total Xylene	0.150	0.151	0.148	100	98.4	37.0-160			2.08	20
(S) a,a,a-Trifluorotoluene(FID)				100	101	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				97.4	99.0	72.0-128				

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3377188-3 01/18/1	9 10:36 • (LCSD)	) R3377188-4	01/18/19 10:57							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.07	6.01	110	109	72.0-127			1.03	20
(S) a,a,a-Trifluorotoluene(FID)				100	100	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				107	107	72.0-128				

Analyte

Benzene

Toluene

Ethylbenzene

Total Xylene

(S) a,a,a-Trifluorotoluene(FID)

(S) a,a,a-Trifluorotoluene(PID)

Volatile Organic Compounds (GC) by Method 8015/8021

mg/kg

0.0500

0.0500

0.0500

0.150

#### QUALITY CONTROL SUMMARY L1062020-01

1

1

1

Dilution Rec. Limits

%

10.0-155

10.0-160

10.0-160

10.0-160

77.0-120

72.0-128

MS Qualifier

<u>J6</u>

<u>J6</u>

<u>J6</u>

MSD Qualifier

J3 J6

<u>J3</u>

<u>J3</u>

J3 J6

RPD

41.8

44.6

78.7

58.4

%

MSD Rec.

%

4.61

117

50.5

57.1

86.8

95.7

MS Rec.

%

0.000

0.000

7.62

0.000

83.5

78.9

MSD Result

mg/kg

0.224

0.0380

0.288

0.00764

**RPD** Limits

%

32

34

32

32

Тс Ss Cn Sr

-

L1062132-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

L1062132-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

mg/kg

0.143

0.0165

0.158

0.00499

(OS) L1062132-01 01/18/19 18:01 • (MS) R3377188-6 01/18/19 18:43 • (MSD) R3377188-7 01/18/19 19:04 Spike Amount Original Result MS Result

mg/kg

0.166

0.0127

0.202

0.00533

(OS) L1062132-01 01/18/1	9 18:01 • (MS) R3	377188-8 01/18	3/19 19:25 • (N	ASD) R3377188-	9 01/18/19 19:	:47							7
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	<b>RPD</b> Limits	(
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
TPH (GC/FID) Low Fraction	5.50	5.50	8.06	5.73	46.6	4.16	1	10.0-151		<u>J3 J6</u>	33.9	28	8
(S) a,a,a-Trifluorotoluene(FID)					91.6	92.6		77.0-120					
(S) a,a,a-Trifluorotoluene(PID)					99.3	99.5		72.0-128					9

Semi-Volatile Organic Compounds (GC) by Method 8015

# QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

## Method Blank (MB)

16:16				
MB Result	MB Qualifier	MB MDL	MB RDL	
mg/kg		mg/kg	mg/kg	
U		1.61	4.00	
U		0.274	4.00	
77.6			18.0-148	
	MB Result mg/kg U U	MB Result <u>MB Qualifier</u> mg/kg U U	MB Result     MB Qualifier     MB MDL       mg/kg     mg/kg       U     1.61       U     0.274	MB ResultMB QualifierMB MDLMB RDLmg/kgmg/kgmg/kgU1.614.00U0.2744.00

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3377176-2 01/19/19	16:30 • (LCSD)	R3377176-3	01/19/19 16:46							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Extractable Petroleum Hydrocarbon	50.0	29.5	38.8	59.0	77.6	50.0-150		<u>13</u>	27.2	20
C10-C28 Diesel Range	50.0	28.4	41.7	56.8	83.4	50.0-150		<u>13</u>	37.9	20
(S) o-Terphenyl				73.0	94.3	18.0-148				

## L1062020-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062020-01 01/19	9/19 18:04 • (MS) R	3377176-4 01/	19/19 18:21 • (1	ASD) R3377176-	-5 01/19/19 18:	:35							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	l
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Extractable Petroleum Hydrocarbon	50.0	7.50	36.1	34.3	57.2	53.6	1	50.0-150			5.11	20	
C10-C28 Diesel Range	50.0	ND	32.0	30.6	64.0	61.2	1	50.0-150			4.47	20	
(S) o-Terphenyl					60.8	58.4		18.0-148					

## GLOSSARY OF TERMS

### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

#### Abbreviations and Definitions

.

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
J	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
imits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Driginal Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Jncertainty Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section fo each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

SDG:

-

# **ACCREDITATIONS & LOCATIONS**

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National

#### State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>16</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
ouisiana	AI30792	Tennessee 14	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Vinnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

#### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

#### **Our Locations**

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Sc

Pace Analytical CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields						LAB USE ONLY- Affix Workorder/Login Laber Nete of List Face from the second sec													
Company: HilCorp-Farmington, NM Billing Information:											ALL .	снаг		REAS	are fo	LAB LISE ONLY			
Address: 382 Road 3100		PO Box 61529 Houston, TX 77208						Container Preservative Type ** Lab Project Manager:											
Aztec, NM 87401								container rieservativ						288 - Daphne Richards					
Report To: LINDSAU DUMAS			Email To: Idumas chilcorp.com Khockstrachilcorp.com Site Collection Info/Address:					288 - Daphne Richards     ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate,     (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane. (A) ascorbic acid, (6) ammonium sulfate,     (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other									, (4) sodium hydroxide, (5) zinc acetate,		
			State: County/City: Time Zone Collected: / PT MT CT ET								Analyse							Profile/Line: Bample Receipt Checklist:	
Phone: <b>505-486-9543</b> mail:	Site/Facility ID		#124	0.	Compliance Monitoring? [ ] Yes [ ] No DW PWS ID #: DW Location Code:				GRD, WRD								Cired	Custody Seals Present/Intact Y N (N) Custody Signatures Present X NA Collector Signature Present X NA	
ollected by (print):	Purchase Orde Quote #:	er #:														Boti Corri Suff	Tector Signature Fregent R NA Les Intact rect Bottles ficient Volume N NA		
Colleged by Inghature	Turnaround D	ate Require	ed:		Immediately Packed on Ice: X Yes [ ] No				<ul> <li>Destination</li> </ul>							VOA	- Headspace Acceptable Y N MA A Regulated Soils Y N NA		
ample Disposal:   Dispose as appropriate     Return   Archive   Hold	2 Day 1	ame Day   ] 3 Day [ (Expedite Ch	] 4 Day [	15 Day	Field Filte	red (if appl [] No	icable):		15 DP0	8021	BC					Read Cl 1 Somp pH 5	Samples in Holding Time Y N HA Residual Chlorine Present Y N HA Cl Strips: Sample pH Acceptable Y N MA pH Strips:		
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bloassay (B), Vapor (V), Other (OT)								1 8015		Long Du						Lond	fide Present Y N NA 1 Acetate Striper		
Customer Sample ID	Matrix *	Comp / Grab	Compos	ted (or site Start)		osite End	Res Cl	# of Ctns	Har	BIEX	CHLO						Lab	Sample # / Comments	
BGT CLOSURE	55	Como	Date 1-16	Time 8150	Date	Time			- Contraction	X					-		-1	062020	
DOT LUSULO		Carl		1		1.000		1		-									
	Sale of the	1.1																	
						12		ak-1											
					-														
	-			-				-		-									
	No. 10																	Rip on The Smath	
Customer Remarks / Special Conditions / Possible Hazards: Type of Ice #Error Packing Ma ror Radchem s			e of Ice Used: Wet Blue Dry None					-	SHO	RTHOL	DS PRE	SENT (	72 hou	rs): Y	N	LAB Sample Temperature Info:			
			Packing N	laterial Us	ed:					LAB	Trackin	icking #: 4430 3422 84					13	Temp Blank Received: Y N NA	
			Radchem sample(s) screened (<500 cpm); Y N NA						Samples received via: FEDEX UPS Client									Therm ID#: Mm M	
Refinquished by/Company: (Signature) Date		te/Time: 10:30 Received by/Company: (Signature)							Date/Time: Date/Time:				B163			Cooler 1 Therm Corr. Factor 3 oC Cooler 1 Corrected Temp 2-2 oC			
								1								Comments:			
		2/Time:		Received by/Company: (Signature)					1	Date/Time:			Pr	Template: Prelogin: PM: 288 - Daphne Richards PB:			Trip Blank Received:         Y         N         NA           HCL         MeOH         TSP         Other           NonConformance(s)         Page		



