

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NCS2032243681
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Hilcorp Energy Company	OGRID	372171
Contact Name	Priscilla Shorty	Contact Telephone	(505) 324-5188
Contact email	pshorty@hilcorp.com	Incident # (assigned by OCD)	NCS2032243681
Contact mailing address	382 Road 3100 Aztec NM 87410		

### Location of Release Source

Latitude 36.93219330 Longitude -108.19395030  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Oshea 1M	Site Type	Gas Well
Date Release Discovered	N/A	API# (if applicable)	3004523618

Unit Letter	Section	Township	Range	County
F	3	31N	13W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Charles Blassingame\_\_\_\_\_)

### Nature and Volume of Release

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

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

#### Cause of Release

During the initial BGT closure sampling, the soil sample was not to temperature so the analysis was void. Hilcorp went out and resampled the BGT on 9/30/20 and results were above the Pit Permit Closure Standards for Chlorides.

State of New Mexico  
Oil Conservation Division

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## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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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: \_\_\_\_\_Jennifer Deal\_\_\_\_\_ Title: \_\_\_\_\_Environmental Specialist\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_11/19/2020\_\_\_\_\_

email: \_\_\_\_\_jdeal@hilcorp.com\_\_\_\_\_ Telephone: \_\_\_\_\_505-324-5128\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NCS2032243681
District RP	
Facility ID	
Application ID	

## Closure

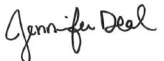
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jennifer Deal Title: Environmental Specialist

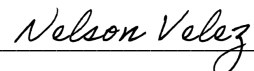
Signature:  Date: 11/19/2020

email: jdeal@hilcorp.com Telephone: 505-324-5128

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 02/24/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

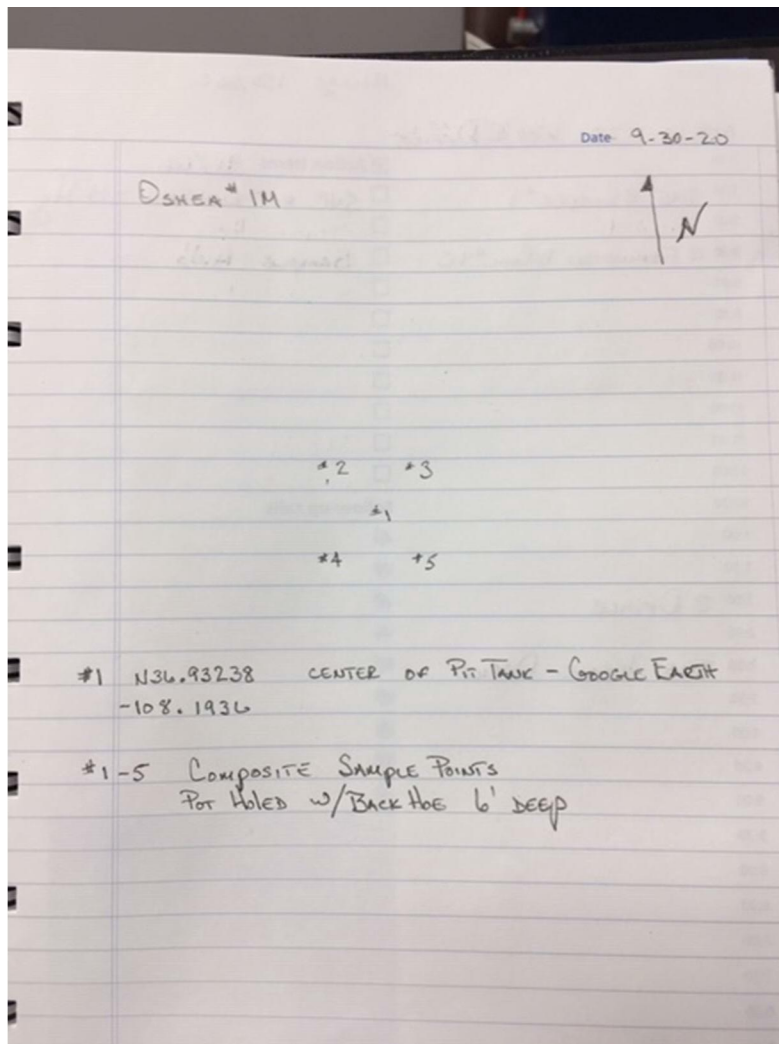


# Scaled Map

N  
↑



# Field Data



# Data table of soil contaminant concentration data

TABLE 1

SOIL ANALYTICAL RESULTS


OSHEA 1M - BGT CLOSURE

HILCORP ENERGY - L48 WEST

Soil Sample Identification	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes	Total BTEX	Chlorides (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)
BGT	6/12/2020	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	97.8	<20	<25	<50	<50
		Sample from 6/12/20 was above required temperature so analysis is void									
BGT Pit	9/30/2020	<0.0005	<0.005	<0.0005	<0.0015	<0.005	528.0	<0.100	6.11	15.10	21.21
NMOCD Standards		10	NE	NE	NE	50	600	NE	NE	NE	100



# Depth to water determination



*New Mexico Office of the State Engineer*

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">SJ 02467 POD1</a>		SJLP	SJ	4	3	2	03	31N	13W	216035	4091928	42		
<a href="#">SJ 02879</a>		SJLP	SJ	2	3	2	03	31N	13W	216083	4092057*	30		
<a href="#">SJ 02990</a>		SJLP	SJ	4	3	2	03	31N	13W	216083	4091857*	100	22	78
<a href="#">SJ 03137</a>		SJLP	SJ	3	3	2	03	31N	13W	215883	4091857*	50		
<a href="#">SJ 03386</a>		SJLP	SJ			2	03	31N	13W	216185	4092159*	80	11	69
<a href="#">SJ 04304 POD1</a>		SJLP	SJ	2	2	4	03	31N	13W	216495	4091705	33	6	27
Average Depth to Water:													13 feet	
Minimum Depth:													6 feet	
Maximum Depth:													22 feet	

**Record Count:** 6

**PLSS Search:**

**Section(s):** 3      **Township:** 31N      **Range:** 13W

\*UTM location was derived from PLSS - see Help

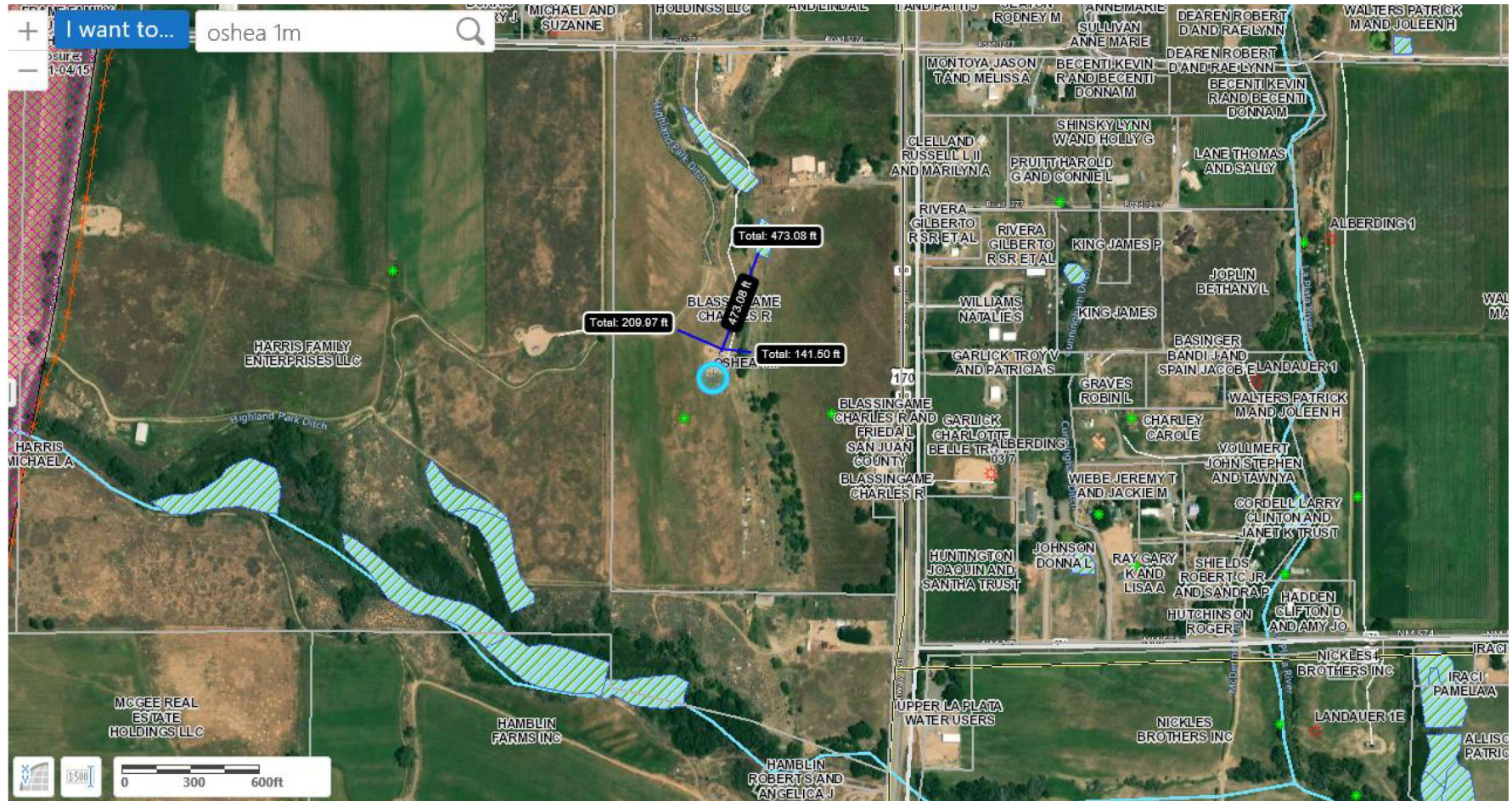
The data is furnished by the NMOSE/TSC and is accepted by the recipient with the expressed understanding that the OSE/TSC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/14/20 9:23 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Released to Imaging: 2/24/2022 4:11:46 PM





# Photographs – 9/20/20 Sampling Event





# Photographs – 9/20/20 Sampling Event



# Summary of events

- Initial BGT Closure sampling occurred 6/12/2020
  - Sample was below temperature so analysis was denied by OCD
- BGT Closure sampling occurred on 9/30/2020
  - Attempted sampling using hand auger but got refusal
  - Completed sampling using back hoe and digging pot hole
  - Kurt and Chad from Hilcorp after confirming with Cory on the phone and by email (email attached below)

Jennifer Deal

---

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
Sent: Wednesday, September 30, 2020 8:22 AM  
To: Chad Perkins  
Cc: Kurt Hoekstra; Jennifer Deal  
Subject: RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Chad,

No I don't want to hold you guys up please proceed just have the field guys take a couple of pictures of the excavation and sampling please.

Thanks.

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

From: Chad Perkins <cperkins@hilcorp.com>  
Sent: Wednesday, September 30, 2020 8:16 AM  
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
Cc: Kurt Hoekstra <khoekstra@hilcorp.com>; Jennifer Deal <jdeal@hilcorp.com>  
Subject: [EXT] RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Cory,  
We should be ready to sample around 9:00 AM, do you want us to wait for you to come witness sampling?

Sent via the Samsung Galaxy S9, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: "Smith, Cory, EMNRD" <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
Date: 9/30/20 8:09 AM (GMT-07:00)  
To: Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>, Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Subject: RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Chad,

Thank you for the update about what time do you think you will be read for sampling today?



Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

From: Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>  
Sent: Wednesday, September 30, 2020 7:33 AM  
To: Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>; Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Subject: [EXT] RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Good Morning Cory,  
We were unsuccessful with hand angering yesterday so we are mobilizing a backhoe this morning to excavate and sample.

Thanks

Sent via the Samsung Galaxy S9, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: "Smith, Cory, EMNRD" <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
Date: 9/29/20 10:22 AM (GMT-07:00)  
To: Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>, Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Subject: RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

All,

Ok thanks for the contact information, please let me know if you were able to collect a sample via hand auger.

Thanks,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

From: Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>  
Sent: Tuesday, September 29, 2020 10:02 AM  
To: Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>; Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Subject: [EXT] RE: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Cory,  
The land owner is Charlie Blassingame, I have attached his contact info. If we are not able to auger due to the cobble we will schedule for a backhoe to excavate some time later this week.

Thanks

Sent via the Samsung Galaxy S9, an AT&T 5G Evolution capable smartphone

----- Original message -----

From: Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Date: 9/29/20 9:38 AM (GMT-07:00)  
To: Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>  
Subject: FW: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Please respond to Cory's email with Landowner info and your plan if hand auger doesn't work.

Thank you,

Jennifer Deal  
Environmental Specialist  
Hilcorp Energy – L48 West  
[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)  
Office: (505) 324-5128  
Cell: 505-801-6517

---

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]  
Sent: Tuesday, September 29, 2020 9:33 AM  
To: Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>; Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>; Priscilla Shorty <[pshorty@hilcorp.com](mailto:pshorty@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: [EXTERNAL] RE: OSHEA 1M - DENIED C-144

Jennifer,

Could you please provide me with the Land Owners contact information.

In addition I am ok with going to 6 Ft for collecting a sample.. Looking at the pictures I have a feeling that hand auger is not going to be successful due to all the cobbles. Does HEC have a contingency plan to sample today?

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115

[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

From: Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
 Sent: Tuesday, September 29, 2020 8:35 AM  
 To: Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
 Cc: Kurt Hoekstra <[khoekstra@hilcorp.com](mailto:khoekstra@hilcorp.com)>; Chad Perkins <[cperkins@hilcorp.com](mailto:cperkins@hilcorp.com)>; Priscilla Shorty <[pshorty@hilcorp.com](mailto:pshorty@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
 Subject: [EXT] FW: OSHA 1M - DENIED C-144  
 Importance: High

Cory,

The BGT at the Osha 1M was inside of another pit and was only 5 ft deep. See attached pictures. For this reason and since the BGT has already been backfilled and with presence of cobble in the soil, Hilcorp is requesting to sample the BGT at 5 ft using hand auger. If hand auger doesn't work we will get a back hoe out to dig a pot hole.

Also, Chad was in contact with the landowner today by phone and he was ok with us going out and sampling today.

Let me know if you have any questions.

Jennifer Deal  
 Environmental Specialist  
 Hilcorp Energy – L48 West  
[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)  
 Office: (505) 324-5128  
 Cell: 505-801-6517

From: Priscilla Shorty  
 Sent: Friday, September 25, 2020 10:46 AM  
 To: Joey Becker <[jobecker@hilcorp.com](mailto:jobecker@hilcorp.com)>; Josh Jones <[jojones@hilcorp.com](mailto:jojones@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Priscilla Shorty <[pshorty@hilcorp.com](mailto:pshorty@hilcorp.com)>; Jennifer Deal <[jdeal@hilcorp.com](mailto:jdeal@hilcorp.com)>  
 Subject: OSHA 1M - DENIED C-144  
 Importance: High

Jennifer,

Please see Cory Smith's remarks below regarding the denied BGT closure for the Osha 1M. Thanks.

Today's Date:	9/25/2020				
Well Name:	OSHEA 1M	Location:	Sec: 03	Twn: 031N	Rng: C
API Number:	30.045.23618	Footage:	1450' FNL & 1750' FWL		
Operator:	Hilcorp Energy Company	Area/Run/MSO:	02	0202	Victor R
Meter #:	3471430		Pipeline:	HAR	
INC Number:	Verbal.CS.20200925	Agency:	OCD	Inspector:	Cory Sm
Type of INC:	Verbal	Photos Required:	Yes	Due Date:	

Issue of Concern:	<p>To whom it may concern The OCD has denied the submitted Closure Reports C-144 for the following reasons: Closure received over temperature invalid results. Operator to resample and resubmit closure report no later than December. Denied C-144 can be found in the online well image file. Please review and make the required correction prior to re-submitting the fee portal If you have any questions or believe this denial is in error please contact me prior to submitting an appeal. Thank you, Cory Smith DIII Environmental Specialist 505-334-6178.</p> <p>See attached denied C-144</p>
-------------------	--

*Priscilla A. Shorty*

San Juan North Regulatory Technician

Hilcorp Energy Company

505-324-5188

[pshorty@hilcorp.com](mailto:pshorty@hilcorp.com)

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---

Jennifer Deal

---

From: Priscilla Shorty  
Sent: Tuesday, November 17, 2020 12:23 PM  
To: Jennifer Deal  
Cc: Mandi Walker  
Subject: FW: [EXTERNAL] New Mexico OCD Application Submission was Approved by the OCD

Follow Up Flag: Follow up  
Flag Status: Flagged

Jennifer,

The Oshea 1M BGT closure has been approved. See the Incident number below. Thanks.

Priscilla

---

From: OCDOnline@state.nm.us [mailto:OCDOnline@state.nm.us]  
Sent: Tuesday, November 17, 2020 12:18 PM  
To: Priscilla Shorty <pshorty@hilcorp.com>  
Subject: [EXTERNAL] New Mexico OCD Application Submission was Approved by the OCD

The Oil Conservation Division (OCD) has approved the application PO: QF4SR-201015-C-1440.  
The original application was submitted by Priscilla Shorty for HILCORP ENERGY COMPANY.

The user added the additional comment:

"BGT Closure Approved Release Confirmed via operator, assigned to **incident NCS2032243681** Additional Final C-141 Required. Operator did not provide Proper Notice to Private Surface Owner via Certified Mail. Signed c-144 can be located in Well file and incident file ".

If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505





## ANALYTICAL REPORT

October 12, 2020

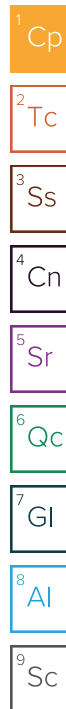
**HilCorp-Farmington, NM**

Sample Delivery Group: L1268743  
Samples Received: 10/01/2020  
Project Number:  
Description: Oshea # 1M  
Site: OSHEA #1M  
Report To: Jennifer Deal  
382 Road 3100  
Aztec, NM 87410

Entire Report Reviewed By:

Olivia Studebaker  
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 Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page	1	<sup>1</sup> Cp
Tc: Table of Contents	2	
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Cn: Case Narrative	4	
Sr: Sample Results	5	<sup>3</sup> Ss
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Qc: Quality Control Summary	6	<sup>4</sup> Cn
Wet Chemistry by Method 300.0	6	<sup>5</sup> Sr
Volatile Organic Compounds (GC) by Method 8015/8021	7	
Semi-Volatile Organic Compounds (GC) by Method 8015	8	<sup>6</sup> Qc
Gl: Glossary of Terms	9	<sup>7</sup> Gl
Al: Accreditations & Locations	10	<sup>8</sup> Al
Sc: Sample Chain of Custody	11	<sup>9</sup> Sc

SAMPLE SUMMARY

SGT PIT L1268743-01 Solid

Collected by K Hoekstra  
Collected date/time 09/30/20 08:52  
Received date/time 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1554456	1	10/07/20 15:38	10/07/20 17:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1556699	1	10/07/20 08:58	10/09/20 19:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1554863	1	10/06/20 16:13	10/07/20 01:35	JN	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

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.



Olivia Studebaker  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Collected date/time: 09/30/20 08:52

L1268743

## Wet Chemistry by Method 300.0

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	528		20.0	1	10/07/2020 17:37	<a href="#">WG1554456</a>

1  
Cp2  
Tc3  
Ss4  
Cn5  
Sr6  
Qc7  
Gl8  
Al9  
Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/09/2020 19:26	<a href="#">WG1556699</a>
Toluene	ND		0.00500	1	10/09/2020 19:26	<a href="#">WG1556699</a>
Ethylbenzene	ND		0.000500	1	10/09/2020 19:26	<a href="#">WG1556699</a>
Total Xylene	ND		0.00150	1	10/09/2020 19:26	<a href="#">WG1556699</a>
TPH (GC/FID) Low Fraction	ND		0.100	1	10/09/2020 19:26	<a href="#">WG1556699</a>
(S) a,a,a-Trifluorotoluene(FID)	106		77.0-120		10/09/2020 19:26	<a href="#">WG1556699</a>
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		10/09/2020 19:26	<a href="#">WG1556699</a>

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.11		4.00	1	10/07/2020 01:35	<a href="#">WG1554863</a>
C28-C40 Oil Range	15.1		4.00	1	10/07/2020 01:35	<a href="#">WG1554863</a>
(S) o-Terphenyl	60.5		18.0-148		10/07/2020 01:35	<a href="#">WG1554863</a>



Released to Imaging: 2/24/2022 4:11:46 PM

WG1554456

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1268743-01

ONE LAB. NATIONWIDE.

Received by OCD: 11/19/2020 10:26:04 AM

Method Blank (MB)

(MB) R3578970-1 10/07/20 16:21				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1268182-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1268182-01 10/07/20 16:50 • (DUP) R3578970-3 10/07/20 16:58

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1940	1850	5	4.92		20

L1269080-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1269080-15 10/07/20 20:47 • (DUP) R3578970-6 10/07/20 20:57

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3578970-2 10/07/20 16:30					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	205	103	90.0-110	

L1269080-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1269080-06 10/07/20 18:53 • (MS) R3578970-4 10/07/20 19:02 • (MSD) R3578970-5 10/07/20 19:31												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	ND	514	527	103	105	1	80.0-120			2.43	20

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Method Blank (MB)

(MB) R3579863-3 10/09/20 15:05				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0477	J	0.0217	0.100
(S)				
a,a,a-Trifluorotoluene(FID)	109			77.0-120
(S)				
a,a,a-Trifluorotoluene(PID)	101			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3579863-1 10/09/20 14:02					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.0500	0.0489	97.8	76.0-121	
Toluene	0.0500	0.0489	97.8	80.0-120	
Ethylbenzene	0.0500	0.0499	99.8	80.0-124	
Total Xylene	0.150	0.157	105	37.0-160	
(S)					
a,a,a-Trifluorotoluene(FID)			107	77.0-120	
(S)					
a,a,a-Trifluorotoluene(PID)			101	72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3579863-2 10/09/20 14:23					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	6.52	119	72.0-127	
(S)					
a,a,a-Trifluorotoluene(FID)			107	77.0-120	
(S)					
a,a,a-Trifluorotoluene(PID)			110	72.0-128	

Received by OCD: 11/19/2020 10:26:04 AM

1 C

2 T

3 S

4 C

5 S

6 QC

7 GI

8 AI

9 Sc

Released to Imaging: 2/24/2022 4:11:46 PM

WG1554863

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Received by OCD: 11/19/2020 10:26:04 AM

Semi-Volatile Organic Compounds (GC) by Method 8015

L1268743-01

Method Blank (MB)

(MB) R3578628-1 10/06/20 23:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.976	J	0.274	4.00
(S) o-Terphenyl	70.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3578628-2 10/07/20 00:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	30.9	61.8	50.0-150	
(S) o-Terphenyl			68.2	18.0-148	

L1269536-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1269536-01 10/07/20 02:01 • (MS) R3578628-3 10/07/20 02:13 • (MSD) R3578628-4 10/07/20 02:26

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.0	20.7	64.3	61.7	87.2	82.0	1	50.0-150			4.13	20
(S) o-Terphenyl					63.7	65.5		18.0-148				

## 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.

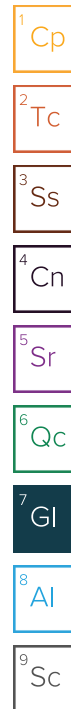
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## 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.
U	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.
Limits	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.
Original 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.
Uncertainty (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 for 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

J	The identification of the analyte is acceptable; the reported value is an estimate.
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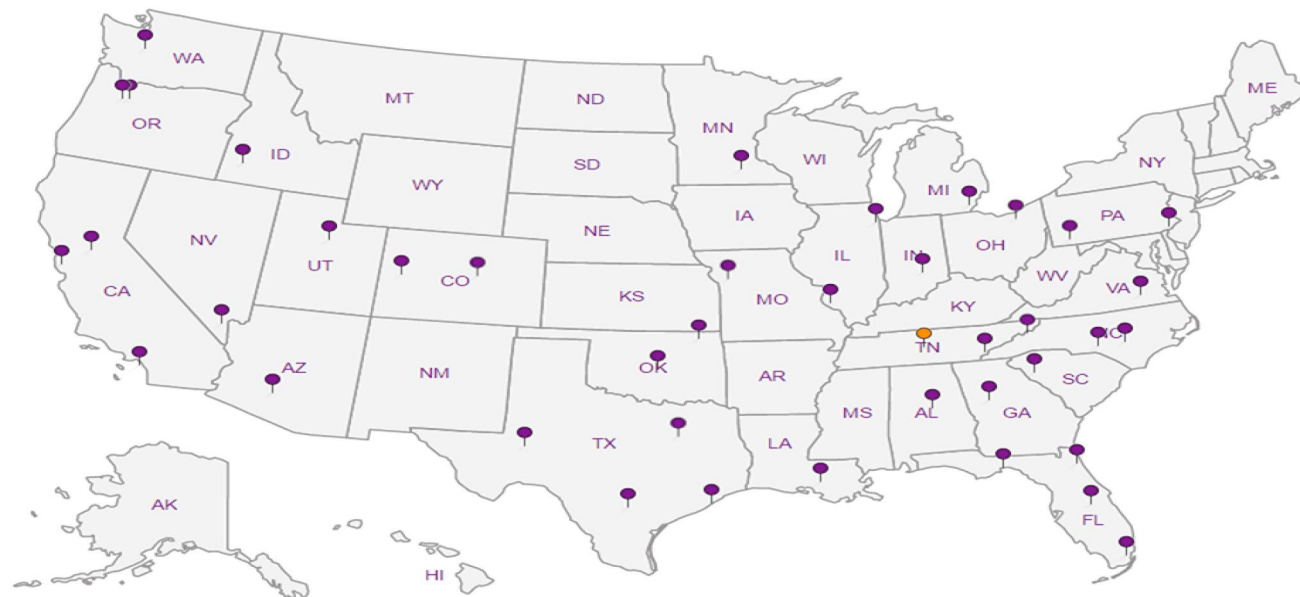
\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Alabama	40660	Nebraska	NE-05-15-05
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 <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio—VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA



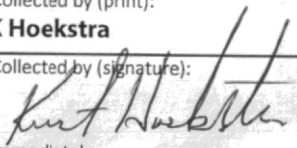
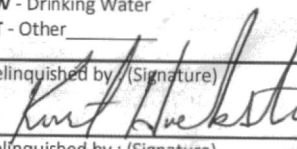
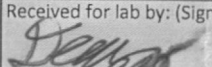
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<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

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.





Report to: <b>Jennifer Deal</b>				Billing Information:  <b>ATTN: Jennifer Deal</b>				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ____ of ____	
				Email To: <b>jdeal@hilcorp.com; khoekstra@hilcorp</b>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - 8015 - DRO, GRO, MRO</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 8021</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 300.0</div> </div>													
Project Description: <b>Oshea # 1M</b>				City/State Collected: <b>Aztec, NM</b>														12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Phone: <b>505-324-5128</b>				Client Project #														Lab Project #		L # <b>1268743</b>	
Collected by (print): <b>K Hoekstra</b>				Site/Facility ID # <b>Oshea # 1M</b>														P.O. #		<b>H132</b>	
Collected by (signature): 				Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day														Quote #		Acctnum: <b>HILCORANM</b>	
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed														No. of Cntrs		Template:	
Sample ID				Comp/Grab		Matrix *												Depth		Date	
Time				Date		Time												Date		Time	
BGT Pit				Comp		SS												6'		9-30-	
8:52				1		X												X		X	
Remarks				Sample # (lab only)		-01		pH ____ Temp ____		Flow ____ Other ____											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other				Remarks:				Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier				Tracking # <b>4430 3422 8103</b>									
Relinquished by: (Signature) 				Date: <b>9-30-20</b>		Time: <b>2:30</b>		Received by: (Signature)				Trip Blank Received: Yes / <input checked="" type="checkbox"/> No									
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: <b>15-3-12.86</b> °C Bottles Received: <b>1</b>									
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: <b>10/1/20</b> Time: <b>9:00</b>									
Condition: NCF / <input checked="" type="checkbox"/>				Hold:				If preservation required by Login: Date/Time				RAD SCREEN: <b>&lt;0.5 mR/hr</b>									

**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

Action 11260

## CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 11260
	Action Type: [C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/24/2022