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

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

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

## Proposed Alternative Method Permit or Closure Plan Application

Type of action:  Below grade tank registration  Permit of a pit or proposed alternative met  Closure of a pit, below-grade tank, or prop  Modification to an existing permit/or regis  Closure plan only submitted for an existin or proposed alternative method  Instructions: Please submit one application (Form C-144) per individual.	oosed alternative method stration g permitted or non-permitted pit, below-grade tank,
Please be advised that approval of this request does not relieve the operator of liability should of nvironment. Nor does approval relieve the operator of its responsibility to comply with any other contents.	
Operator: Hilcorp Energy Company	OGRID #: 372171
Address: 382 Road 3100 Aztec, NM 87410	
Facility or well name: Storey Com C 4E BGT #2	
API Number: 30-045-24685 OCD Permit Numb	er:
U/L or Qtr/Qtr <u>G</u> Section <u>15</u> Township <u>28N</u> Range <u>29W</u>	County: San Juan
Center of Proposed Design: Latitude 36.664151 Longitude	de <u>-107.772084</u> NAD83
Surface Owner: ⊠ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
☐ Pit:       Subsection F, G or J of 19.15.17.11 NMAC         Temporary:       ☐ Drilling       ☐ Workover         ☐ Permanent       ☐ Emergency       ☐ Cavitation       ☐ P&A       ☐ Multi-Well Fluid Management         ☐ Lined       ☐ Unlined       Liner type:       Thickness      mil       ☐ LLDPE       ☐ HDPE         ☐ String-Reinforced       Liner Seams:       ☐ Welded       ☐ Factory       ☐ Other       Volume:	PVC Other
Below-grade tank:       Subsection I of 19.15.17.11 NMAC         Volume:       120       bbl Type of fluid:       Produced Water         Tank Construction material:       Metal         □ Secondary containment with leak detection       Visible sidewalls, liner, 6-inch lift a         □ Visible sidewalls and liner       Visible sidewalls only       Other         Liner type:       Thickness       mil       HDPE       PVC       Other	nd automatic overflow shut-off
4.  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa	a Fe Environmental Bureau office for consideration of approval.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pit  Chain link, six feet in height, two strands of barbed wire at top (Required if located winstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	ithin 1000 feet of a permanent residence, school, hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
Informing inspections (it netting of selecting is not physically leastote)	
Signs: Subsection C of 19.15.17.11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  -   NM Office of the State Engineer - iWATERS database search;   USGS;   Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. ( <b>Does not apply to below grade tanks</b> )  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. ( <b>Does not apply to below grade tanks</b> ) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain. ( <b>Does not apply to below grade tanks</b> ) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
<u>Temporary Pit using Low Chloride Drilling Fluid</u> (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	☐ Yes ☐ No	
Temporary Pit Non-low chloride drilling fluid		
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No	
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Permanent Pit or Multi-Well Fluid Management Pit		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa		
lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No	
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.		
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC	
11.		
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC		
Previously Approved Design (attach copy of design) API Number: or Permit Number:		

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are		
attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC			
<ul> <li>□ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>			
<ul> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> <li>□ Emergency Response Plan</li> </ul>			
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan			
Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC			
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 Alternative Proposed Closure Method: Waste Excavation and Removal	luid Management Pit		
Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial  Alternative Closure Method			
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.	attached to the		
<ul> <li>☑ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>☑ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>☑ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>☑ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>☑ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>			
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. In 19.15.17.10 NMAC for guidance.			
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No		
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			
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells			
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No		
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No		
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance			

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written appre	oval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mini	ing and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geold Society; Topographic map	ogy & Mineral Resources; USGS; NM Geological	
Within a 100-year floodplain.		Yes No
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of 19.15.17.10 NMAC of Subsection E of 19.15.17.13 NMAC appropriate requirements of Subsection K of 19.15.17. g pad) - based upon the appropriate requirements of 19. 15.17.13 NMAC equirements of 19.15.17.13 NMAC of 19.15.17.13 NMAC d drill cuttings or in case on-site closure standards cann in H of 19.15.17.13 NMAC on H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:		
I hereby certify that the information submitted with this application is true, accur		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure F	Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:	Approval Date:June	9, 2021
Title: Environmental Specialist	OCD Permit Number: BGT 1	
Closure Report (required within 60 days of closure completion): 19.15.17.13 Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the c	to implementing any closure activities and submitting the completion of the closure activities. Please do not	
20.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Altern ☐ If different from approved plan, please explain.	ative Closure Method   Waste Removal (Closed-lo	oop systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following it	toms must be attached to the planning nament. Plans in	dicate by a check

22.				
Operator Closu	re Certification:			
	hat the information and attachments submitted with this			
belief. I also cer	tify that the closure complies with all applicable closure	requirements ar	d conditions specified in the ap	pproved closure plan.
Name (Print):	Kandis Roland	Title:	Operations/Regulate	ory Technician – Sr
Signature:	Kandís Roland		Date:	2/9/2021
e-mail address:_	kroland@hilcorp.com	Telephone:	(505) 324-5149	

# Hilcorp Energy Company San Juan Basin: New Mexico Assets Below Grade Tank Closure Report

Lease Name: Storey Com C 4E

API No.: 30-045-24685

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 Requirements:**

1. Prior to initiating any BGT closure, except in the case of an emergency, HILCORP will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.

The surface owner was notified by email of the closure process and the notification is attached.

- 2. Notice of closure will be given to the District Division office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name
  - b. Well Name and API Number
  - c. Location

#### Notification is attached.

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of HILCORP's approved Salt Water Disposal facilities or at a District Division approved facility.

All recovered liquids were disposed of at an approved SWD facility or an approved District Division facility within 60 days of cessation of operation.

 Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the District Division approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), JFJ Land Farm % Industrial Ecosystems Inc. (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).

Any sludge or soil required to be removed to facilitate closure was transported to Envirotech Land Farm (Permit # NM-01-011) and/or JFJ Landfarm % IEI (Permit# NM-01-0010B).

Revised 10/14/2015

5. HILCORP will obtain prior approval from District Division to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the District Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.

The below-grade tank was disposed of in a division-approved manner. The liner was cleaned per 19.15.35.8.C(1)(m) NMAC and disposed of at the San Juan County Regional Landfill located on CR 3100.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

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

- 7. Following removal of the tank and any liner material, HILCORP will test the soils beneath the BGT as follows:
  - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
  - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Table I of 19.15.17.13 and the results are attached.

8. If the District Division and/or HILCORP determine there is a release, HILCORP will comply with 19.15.17.13.C.3b.

A release was not determined for the above referenced well.

9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and to prevent ponding.

The tank removal area passed all requirements of Table I of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material which included at least one foot of suitable material to establish vegetation at the site.

Revised 10/14/2015

10. For those portions of the former BGT area no longer required for production activities, HILCORP will seed the disturbed area the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other District Division-approved methods. HILCORP will notify the District Division when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d HILCORP will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Provision 10 will be accomplished pursuant to 19.15.17.H.5d and notification will be submitted upon completion.

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The former BGT area is required for production activities and reseeding will be completed upon plug and abandonment, per the procedure noted above.

#### **Closure Report:**

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using District Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and District Division) (Attached)
- Backfilling & cover installation (See Report)
- Confirmation Sampling Analytical Results (Attached)
- Application Rate & Seeding techniques (See Report)
- Photo Documentation of Reclamation (Attached)

#### Kandis Roland

From: Kandis Roland

Sent: Thursday, January 21, 2021 7:54 AM
To: Smith, Cory, EMNRD; 'rjoyner@blm.gov'

Cc: Kandis Roland; Cheryl Weston; Clara Cardoza; Calen Wilkins; Mike Murphy; William

Shuss; Keri Hutchins

Subject: 72-hour notification - Storey Com C 4E (30-045-24685)

Attachments: Storey Com C 4E C144 BGT Closure PLAN ONLY Approved.pdf

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Monday, January 25, 2020 at approximately 9:00 AM.

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

Well Name: Storey Com C 4E

**API#:** 30-045-24685

Location: Unit G Section 15, T28N, R09W

Footages: 1790' FNL & 1540' FEL

Operator: Hilcorp Energy Surface Owner: Federal (Lease NMSF077111)

Reason: Permanently close out BGT

Please forward to anyone that I may have missed.

Thank you,

Kandis Roland HILCORP ENERGY San Juan South Regulatory 505.324.5149

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

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### **Responsible Party**

			•		·		
Responsible Pa	Responsible Party Hilcorp Energy Company OGRID		OGRID	372171			
Contact Name	Kandis	Roland			Contact Tel	ephone (505) 324-5149	
Contact email	krolan	d@hilcorp.com			Incident # (d	assigned by OCD)	
Contact mailing	g address	382 Road 3100	Aztec NM 8741	0			
			Location	of R	elease So	urce	
Latitude30	6.664151		Longitu (NAD 83 in dec				
Site Name Stor	ey Com C	C 4E – BGT #2			Site Type	Gas Well	
Date Release Di	iscovered	N/A			API# (if appli	cable) 30-045-24685	
Unit Letter	Section	Township	Range		Count	y	
G	15	28N	29W		San Ju	an	
	Materia	l(s) Released (Select al	Nature and			elease  Istification for the volumes prov	vided below)
Crude Oil		Volume Release				Volume Recovered (bbls	
Produced W	ater	Volume Release	d (bbls)			Volume Recovered (bbls)	
		Is the concentrate produced water	ion of dissolved ch >10,000 mg/l?	nloride	in the	Yes No	
Condensate		Volume Release	d (bbls)			Volume Recovered (bbls)	
Natural Gas	i	Volume Release	Released (Mcf)			Volume Recovered (Mcf)	
Other (descr	ribe)	Volume/Weight	Released (provide	ovide units)		Volume/Weight Recovered (provide units)	
Cause of Release	se						
No release was e	encountere	d during the BGT	Closure.				

Received by OCD: 2/9/2021 6:42:16 AM State of New Mexico
Page 2 Oil Conservation Division

Page		$\alpha$ 1	' ''
1 420	1 4	$\boldsymbol{v}$	-

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 no	otice given to the OCD? By whom?	To whom? When and by what m	eans (phone, email, etc)?
Not Required			
	Initi	al Response	
The responsible p	oarty must undertake the following actions im	mediately unless they could create a safety	hazard that would result in injury
☐ The source of the rele	ase has been stopped.		
☐ The impacted area ha	s been secured to protect human heal	th and the environment.	
Released materials ha	ve been contained via the use of bern	ms or dikes, absorbent pads, or other	ner containment devices.
☐ All free liquids and re	ecoverable materials have been remove	ved and managed appropriately.	
Dog 10 15 20 9 D (4) NIM	AC the regressible porty may common	ongo nomo diction insmediataly of	ton discovery of a release. If namediation
has begun, please attach		nedial efforts have been successful	ter discovery of a release. If remediation ally completed or if the release occurred a needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	nent. The acceptance of a C-141 report bate and remediate contamination that pos	ase notifications and perform corrections the OCD does not relieve the operate a threat to groundwater, surface was	derstand that pursuant to OCD rules and we actions for releases which may endanger ator of liability should their operations have ter, human health or the environment. In with any other federal, state, or local laws
Printed Name: Kandis	Roland	Title: Operations/Regu	ılatory Technician – Sr.
Signature:Kana	lis Roland	Date: _	2/9/2021
email:	kroland@hilcorp.com	Telephone:	(505) 324-5149
OCD Only			
Received by:		Date:	



## ANALYTICAL REPORT

February 03, 2021



Ss

Cn

Sr СQс

GI

ΑI



#### HilCorp-Farmington, NM

Sample Delivery Group: L1310907 Samples Received: 01/27/2021

Project Number:

Description: Storey Com C #4E STOREY COM C #4E Site:

Report To: Clara Cardoza

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.

12065 Lebanon Rd Mount Juliet, TN 37122

615-758-5858

800-767-5859

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Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
BGT CELLAR NEAR METERHOUSE L1310907-01	5
Qc: Quality Control Summary	6
Wet Chemistry by Method 300.0	6
Volatile Organic Compounds (GC) by Method 8015/8021	7
Semi-Volatile Organic Compounds (GC) by Method 8015	9
GI: Glossary of Terms	10
Al: Accreditations & Locations	11
Sc: Sample Chain of Custody	12





















#### SAMPLE SUMMARY



BGT CELLAR NEAR METERHOUSE L1310907-01	Solid		Collected by K Heokstra	Collected date/time 01/25/21 09:58	Received date 01/27/21 09:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1615163	1	02/02/21 15:58	02/02/21 23:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1614548	1	01/30/21 13:43	02/01/21 16:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1614126	1	02/01/21 13:22	02/02/21 12:43	WCR	Mt. Juliet, TN



















Olivia Studebaker Project Manager

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.

<sup>1</sup>Cp

















HilCorp-Farmington, NM

#### SAMPLE RESULTS - 01 L1310907

ONE LAB. NATIORAGE 17 0126

Collected date/time: 01/25/21 09:58

#### Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	ND		20.0	1	02/02/2021 23:13	WG1615163



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

	Result	Qualifier	RDL	Dilution	Analysis	Batch Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000861		0.000500	1	02/01/2021 16:26	WG1614548
Toluene	ND		0.00500	1	02/01/2021 16:26	WG1614548
Ethylbenzene	ND		0.000500	1	02/01/2021 16:26	WG1614548
Total Xylene	ND		0.00150	1	02/01/2021 16:26	WG1614548
TPH (GC/FID) Low Fraction	ND		0.100	1	02/01/2021 16:26	WG1614548
(S) a,a,a-Trifluorotoluene(FID)	110		77.0-120		02/01/2021 16:26	WG1614548
(S) a,a,a-Trifluorotoluene(PID)	103		72.0-128		02/01/2021 16:26	WG1614548



<sup>°</sup>Qc

Gl

Sc

Ss

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

	'	( / )				
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.00	1	02/02/2021 12:43	WG1614126
C28-C40 Oil Range	ND		4.00	1	02/02/2021 12:43	WG1614126
(S) o-Terphenyl	57.9		18.0-148		02/02/2021 12:43	WG1614126



ONE LAB. NATIORAGE 18 0126

Wet Chemistry by Method 300.0

L1310907-01

#### Method Blank (MB)

(MB) R3618848-1 02/02/2	1 22:37				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Chloride	U		9.20	20.0	







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







(OS) L1311844-07 02/03/21 06:58 • (DUP) R3618848-6 02/03/21 07:16

(00) 21011044 07 0210312	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1500	1530	5	1.70		20





#### Laboratory Control Sample (LCS)

HilCorp-Farmington, NM

(LCS) R3618848-2	02/02/21 22:55
------------------	----------------

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	193	96.5	90.0-110	

#### L1311641-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1311641-01 02/02/21 23:48 • (MS) R361884	3-4 02/03/21 00:06 • (MSD) R3618848-5 02/03/21 00:24
--	--

(03) 21311041 01 0.	Spike Amount	Original 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	%	%		%			%	%	
Chloride	500	ND	487	486	97.4	97.2	1	80.0-120			0.161	20	

ONE LAB. NATIO Rage 19 0 2 6

Volatile Organic Compounds (GC) by Method 8015/8021

L1310907-01

#### Method Blank (MB)

(MB) R3618547-3 02/01/2	21 13:59			
	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	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	117			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	107			72.0-128

#### Laboratory Control Sample (LCS)

(LCS) R3618547-1 02/01/21 12:53								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
Benzene	0.0500	0.0520	104	76.0-121				
Toluene	0.0500	0.0529	106	80.0-120				
Ethylbenzene	0.0500	0.0556	111	80.0-124				
Total Xylene	0.150	0.166	111	37.0-160				
(S) a,a,a-Trifluorotoluene(FID)			114	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)			104	72.0-128				

#### Laboratory Control Sample (LCS)

(LCS) R3618547-2 02/01/	_CS) R3618547-2 02/01/21 13:15							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
TPH (GC/FID) Low Fraction	5.50	4.96	90.2	72.0-127				
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)			109	72.0-128				















ONE LAB. NATI Rage 20 0 26

Volatile Organic Compounds (GC) by Method 8015/8021

#### L1311892-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	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	%	%		%			%	%
Benzene	1.25	ND	1.27	1.64	102	131	25	10.0-155			25.4	32
Toluene	1.25	ND	1.32	1.69	106	135	25	10.0-160			24.6	34
Ethylbenzene	1.25	ND	1.34	1.71	107	137	25	10.0-160			24.3	32
Total Xylene	3.75	ND	4.29	5.47	114	145	25	10.0-160			24.2	32
(S) a,a,a-Trifluorotoluene(FID)					116	113		77.0-120				
(S) a a a-Trifluorotoluene(PID)					106	103		72.0-128				

#### L1311892-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1311892-01 02/01/2	1 16:48 • (MS) R3	3618547-6 02/	02/21 00:49 •	(MSD) R36185	47-7 02/02/2	1 01:11							
	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	%	%		%			%	%	
TPH (GC/FID) Low Fraction	138	ND	106	109	76.1	78.2	25	10.0-151			2.79	28	
(S) a,a,a-Trifluorotoluene(FID)					106	105		77.0-120					
(S) a,a,a-Trifluorotoluene(PID)					108	109		72.0-128					



















ONE LAB. NATI Rage 21 0 26

Semi-Volatile Organic Compounds (GC) by Method 8015

L1310907-01

#### Method Blank (MB)

(MB) R3618441-2 02/02	/21 10:25			
	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	U		0.274	4.00
(S) o-Terphenyl	64.7			18.0-148







#### Laboratory Control Sample (LCS)

(LCS) R3618441-1 02/02/2	21 03:39						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
C10-C28 Diesel Range	50.0	37.4	74.8	50.0-150			
(S) o-Terphenyl			60.4	18.0-148			







### L1310910-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(00) 21010310 01 02/02/	21 12.00 (1110) 11	00101110 02	02/21 10.00	(11102) 11001011	1 1 02/02/21	10.22						
	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	49.4	ND	30.6	22.7	61.9	45.7	1	50.0-150		<u> J3 J6</u>	29.6	20
(S) o-Terphenyl					39.5	31.9		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

Appleviations and	2 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
-----------	-------------

Qualifici	Description
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.























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\* 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.

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Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
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A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
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EPA-Crypto	TN00003		

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Texas T104704328-20-18

















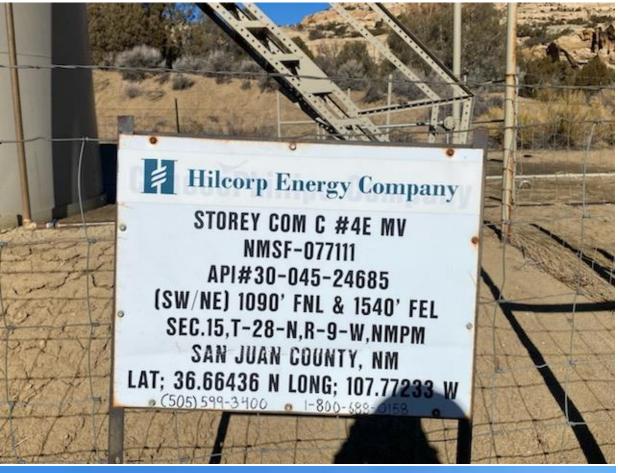


<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

	78		Billing Info	rmation:						Analysis / Co	ontainer / Pres	ervative		48	Chain of Custody	Page of		
	*****		ATTN: C	lara Cardoz	a	Pres Chk									Pace Al National Cente	nalytical* or for Testing & Innov		
Report to: Clara Cardoza			Email To:	a@hilcorp.c	om; khoekstra	a@hilc									12065 Lebanon Rd Mount Juliet, TN 3712 Phone: 615-758-5858			
Project Description: Storey Com C # 4E				City/State Collected: Az	ztec, NM		02								Phone: 800-767-5859 Fax: 615-758-5859			
Phone: <b>5055640733</b> Fax:	Client Projec	t#	14	Lab Project #			GRO, MRO								L# 1310 D189	907		
Collected by (print):  K Hoekstra	Site/Facility   Storey Co			P.O.#		P.O. #						Acctnum: HILCORANM						
Collected by (signature):	Same I	Day Five	ab MUST Be Notified)  ay Five Day  y 5 Day (Rad Only)  Date Results Needed		Quote #  Date Results Needed		15 - DRO, 21 300.0						2	Template: Prelogin: TSR:				
Immediately Packed on Ice N YX	Two Di	Day10 Day			Date results needed		7		1-801	EX 802	Chloride						PB: Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	TPH	BTEX	5						Remarks	Sample # (lab or		
BGT Cellar near meterhouse	Comp	SS		1-25-21	9:58	1	×	×	×	21						-01		
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Matrix: S - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay VW - WasteWater	Remarks:	1. The second se							far.	pH _ Flow_	Temp		COC	Seal P Signed tles ar	ple Receipt Che Present/Intact: d/Accurate: crive intact: ottles used:	NP Y		
W - Drinking Water OT - Other	Samples retu	rned via: edEx Cou	rier		Tracking #								Suf	ficient	volume sent:  If Applicable Headspace:			
Relinquished by (Signature)	4	Date: 1-2.		Time: 12:30	Received by: (Sign	ature)				Trip Blank	Т	HCL / Meoh	Pres		ion Correct/Chec	ked: <b>7</b> Y		
definquished by: (Signature)	N-31 NO.	Date:	3	Time:	Received by: (Sign	ature)	`	la E		Ten APA		es Received:	If pr	eservatio	on required by Logi	n: Date/Time		
Relinquished by : (Signature)		Date:		Time:	Received for lab b	v. (Sign:	ature			Date:	Time		Hold	-		Condition		

Storey Com C 4E BGT #2

30-045-24685





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

CONDITIONS

Action 17474

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	17474
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

#### CONDITIONS

Created By	Condition	Condition Date				
cwhitehead	None	6/9/2021				