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	NAPP2121753231
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Hilcorp Energy Company					OGRID: 372171				
Contact Name: Lindsay Dumas					Contact Telephone: 832-839-4585				
Contact ema	Contact email: <u>ldumas@hilcorp.com</u>					# (assigned by OCD)			
Contact mail	ing address:	: 1111 Travis Stre	et, Houston, TX	77002	•				
			Location	n of R	Release S	Source			
Latitude 36.8	32452		(NAD 83 in a	decimal de	Longitude1 egrees to 5 decir	107.41078			
Site Name: Sa	an Juan 30-	6 29A			Site Type:	: gas well			
Date Release	Discovered	: 8/4/2021			API# (if ap)	pplicable): 30-039-25607			
Unit Letter	Section 12	Township 30N	Range 6W	Rio	Cour Arriba	nty			
Crude Oil		Al(s) Released (Select a				Release c justification for the volumes provided below) Volume Recovered (bbls)			
☐ Produced		Volume Release				Volume Recovered (bbls): 0			
Z Troduced	· water		ation of dissolved	l chlorid	e in the	, ,			
Condensa	nte	Volume Release				Volume Recovered (bbls)			
Natural G	Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovere						Volume/Weight Recovered (provide units)			
reaming fluid	s doing his r	Operator calculate	d a loss10 bbls o	f produc	ed water. N	bottom of pit. He contacted supervisor and removed the No standing fluid to recover. Oks like the other impacted area is under the pit.			

Received by OCD: 10/25/2021 9:40:53 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page 2 of 33

Incident ID	nAPP2121753231
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
YOANTOO I II	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
D 10 15 20 0 D. (4) NM	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
C	
Printed Name:Linds	say Dumas Title:Environmental Specialist
Signature: Frence	Date:8/5/2021
email:ldumas@hilco	orp.com Telephone:832-839-4585
OCD Only	
Received by: Ramona	a Marcus Date: _10/29/2021
received byremitted	Date

	Page 3 of 3	3
Incident ID	nAPP2121753231	
District RP		
Facility ID		
Application ID		

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?	(ft bgs)					
Did this release impact groundwater or surface water?						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.					
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						
☐ Borning of 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

Incident ID	nAPP2121753231
District RP	
Facility ID	
Application ID	

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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 w addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance and/or regulations.	ater, human health or the environment. In with any other federal, state, or local laws						
Printed Name:Billy Ginn Title:Environ	mental Specialist						
Signature: Date:10/25/2021							
email:william.ginn@hilcorp.com Telephone: (346) 237-20	73						
OCD Only							
Received by: Ramona Marcus Date: 10/29/20	021						



State of New Mexico Oil Conservation Division

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

must be notified 2 days prior to liner inspection)

Incident ID	nAPP2121753231
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.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office

☐ Laboratory analyses of final sampling (Note: appropriate ODC District off	ce 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 and regulations all operators are required to report and/or file certain release not may endanger public health or the environment. The acceptance of a C-141 reposhould their operations have failed to adequately investigate and remediate conta human health or the environment. In addition, OCD acceptance of a C-141 reposition compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions that accordance with 19.15.29.13 NMAC including notification to the OCD when red	fications and perform corrective actions for releases which ort by the OCD does not relieve the operator of liability unination that pose a threat to groundwater, surface water, rt does not relieve the operator of responsibility for esponsible party acknowledges they must substantially existed prior to the release or their final land use in
Printed Name: Billy Ginn Title:	Environmental Specialist
Signature: Date:	0/25/2021
	(346) 237-2073
OCD Only	10/00/0001
Received by: Ramona Marcus Date	:
Closure approval by the OCD does not relieve the responsible party of liability sharemediate contamination that poses a threat to groundwater, surface water, human party of compliance with any other federal, state, or local laws and/or regulations	health, or the environment nor does not relieve the responsible
Closure Approved by: Nelson Velez Da	nte: 01/07/2022
Closure Approved by: Nelson Velez Printed Name: Ti	Environmental Specialist – Adv

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October 25, 2021

New Mexico Energy, Minerals and Natural Resources Department New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Subject: Site Characterization Report and Closure Request

San Juan 30-6 29A

Rio Arriba County, New Mexico

NMOCD Incident Number: nAPP2121753231

To Whom It May Concern:

On behalf of Hilcorp Energy Company (Hilcorp), WSP USA Inc. (WSP) has prepared this *Site Characterization Report and Closure Request* for the San Juan 30-6 29A natural gas production well (Site) located in Rio Arriba County, New Mexico (Figure 1). WSP conducted confirmation soil sampling activities to confirm the removal of impacted soil originating from a release of produced water from an active production below grade tank. As reported on the *Release Notification Form C-141* to the New Mexico Oil Conservation Division (NMOCD) on August 5, 2021, a Hilcorp operator discovered a weeping spot on the bottom of the tank. Fluid in the tank was immediately removed to stop any additional release of fluids and the tank was removed for repairs. At that time, no standing fluids were present within the containment berm and no volume was recovered. Wet soil was observed directly below the tank at the time of removal. Hilcorp estimated the volume of the release to be approximately 10 barrels (bbls) of produced water, which was estimated based on the historical volume of water produced from the well per day and subtracting the volume of liquids that remained in the tank at the time the release was discovered. The released fluids remained on location and inside the bermed containment area. NMOCD has assigned Incident Number nAPP2121753231 to the Site.

SITE CHARACTERIZATION

The Site is located on Bureau of Land Management (BLM) managed land in Unit J of Section 12, Township 30 North, Range 6 West, Rio Arriba County, New Mexico (Figure 1). The Site is located within La Fragua Canyon, approximately 11 miles east of Navajo Dam, New Mexico north of U.S. Highway 64. As part of the site investigation, local geology/hydrogeology and nearby sensitive receptors were accessed in accordance with 19.15.29.11 of the New Mexico Administrative Code (NMAC). This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

Based on United States Geological Survey (USGS) geologic mapping, the Site is located within the Tertiary San Jose Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, Lyford, Frenzel, Mizell, & Padgett, 1983), the San Jose Formation is characterized by various lithologies including course-grained arkose, mudstones, and lenses of claystone, siltstone, and poorly consolidated sandstone. This formation ranges in thickness from 200 to 2,700 feet. The San Jose Formation is the youngest Tertiary bedrock unit in the San Juan Basin and is underlain by the Nacimiento Formation.

SITE CHARACTERIZATION

Assessment of potential nearby receptors was conducted through desktop reviews of topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, United States Geological Survey (USGS) GIS maps, New Mexico Office of the State Engineer database, and aerial photographs, as well as site-specific observations.

The data sheet for a deep ground bed cathodic protection well (included as Enclosure A) located approximately 0.25 miles northwest of the Site (associated with the San Juan 30-6 #438 gas production well) indicates that groundwater in the area is approximately 120 feet below ground surface (bgs). The nearest groundwater well to the Site (well SJ-02771) is located approximately 1.45 miles east

WSP USA 848 EAST 2ND AVENUE DURANGO CO 81301

Tel.: 970-385-1096

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(Figure 2) and has reported depth-to-groundwater at 137 feet bgs at the time of drilling in 1997. Based on this information, groundwater at the Site is estimated to be greater than 100 feet bgs.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any significant watercourse and/or wetland (Figure 2). The nearest wetland/watercourse are located approximately 600 feet south of the Site. Surface land use surrounding the Site consists primarily of oil and gas development and livestock grazing. No occupied permanent residence or structures, including schools, hospitals, institutions, and/or churches, are located within 300 feet of the Site. The Site is not within the area of a subsurface mine or unstable area and is not within the 100-year floodplain.

SITE CLOSURE CRITERIA

WSP has characterized the Site according to *Table 1*, *Closure Criteria for Soils Impacted by a Release* of 19.15.29.12 NMAC. The following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1,000 mg/kg total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO) and diesel range organics (DRO); 2,500 mg/kg TPH as a combination of GRO, DRO, and motor oil range organics (MRO); and 20,000 mg/kg chloride.

SITE REMEDIATION AND CONFIRMATION SAMPLING

After the discovery of the release (the footprint of the release measuring approximately 12 feet by 15 feet), Hilcorp removed the tank from the bermed area for repairs and to access potentially impacted soils underneath. Wet soils located underneath the tank were removed by a roustabout crew to remove potentially impacted soil. After soil removal, WSP collected soil samples for field screening on August 10, 2021 below and around the removed tank. Staining and/or petroleum odors were not present in the remaining Site soil. The soil was characterized by visually inspecting the soil samples and field screening the soil headspace using a photoionization detector (PID) to monitor for the presence of organic vapors. Hach® chloride QuanTab® test strips were also used to field screen for chloride concentrations in soil. Field screening results are summarized in Table 1.

Field screening of soils indicated a maximum PID reading of 1.2 parts per million (ppm) of organic vapors and no detections of chloride in the area of the release. Based on these results, WSP gave 48-hours' notice to the NMOCD and BLM for the collection of confirmation soil samples to take place on August 13, 2021.

CONFIRMATION SOIL SAMPLE RESULTS

Based on the soil removal and field screening results on August 10, 2021, WSP collected one, 5-point composite sample from beneath the area of the pit tank (sample SS01) on August 13, 2021. Laboratory analytical results indicate that TPH, BTEX, and chloride were not detected above laboratory reporting limits and that remaining soil is not impacted above NMOCD Table 1 Closure Criteria. Confirmation sample results are summarized in Table 1, with laboratory analytical reports included in Enclosure B. Aliquot sample locations collected for the composite confirmation sample were recorded using a handheld Global Positing System (GPS) unit. Figure 3 presents the confirmation sampling area. The attached Photographic Log includes photographs taken during confirmation sampling.

CONCLUSIONS AND CLOSURE REQUEST

In response to the release of produced water, WSP characterized the Site and performed field screening to assess for potential soil impacts. Additionally, WSP collected confirmation soil sample SS01 confirming that concentrations of TPH, BTEX, and chloride were below the NMOCD Table 1 Closure Criteria. As such, Hilcorp formally requests Site closure from the NMOCD and BLM and approval that no further action is necessary to remediate the Site.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). *Hydrogeology and Water Resources of San Juan Basin, New Mexico*. New Mexico Bureau of Mines & Mineral Resources.



WSP appreciates the opportunity to provide this report to you. If you have any questions or comments regarding this report, do not hesitate to contact Stuart Hyde at (970) 903-1607 or at stuart.hyde@wsp.com, or Billy Ginn at (346) 237-2073 or at William.ginn@hilcorp.com.

Kind regards,

Stuart Hyde, L.G. Environmental Geologist Ashley Ager, M.S., P.G. Managing Director, Geologist

Ashley L. Ager

Enclosed:

Figure 1: Site Location Map Figure 2: Site Receptor Map

Figure 3: Closure Sampling Location

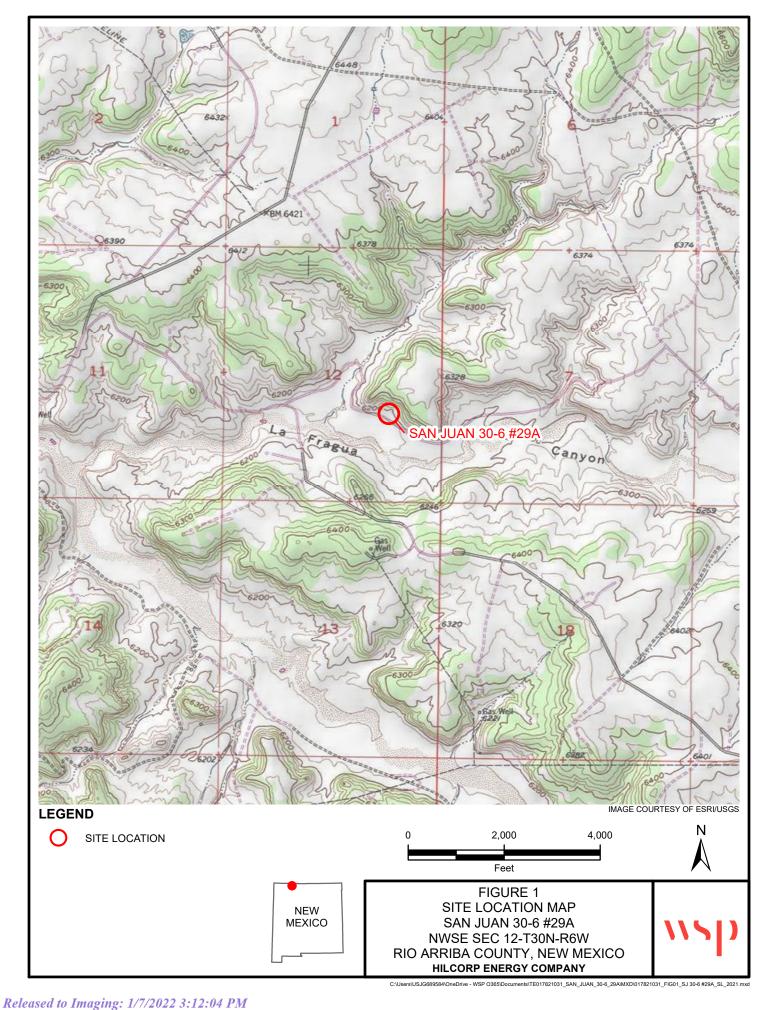
Table 1: Soil Analytical Results

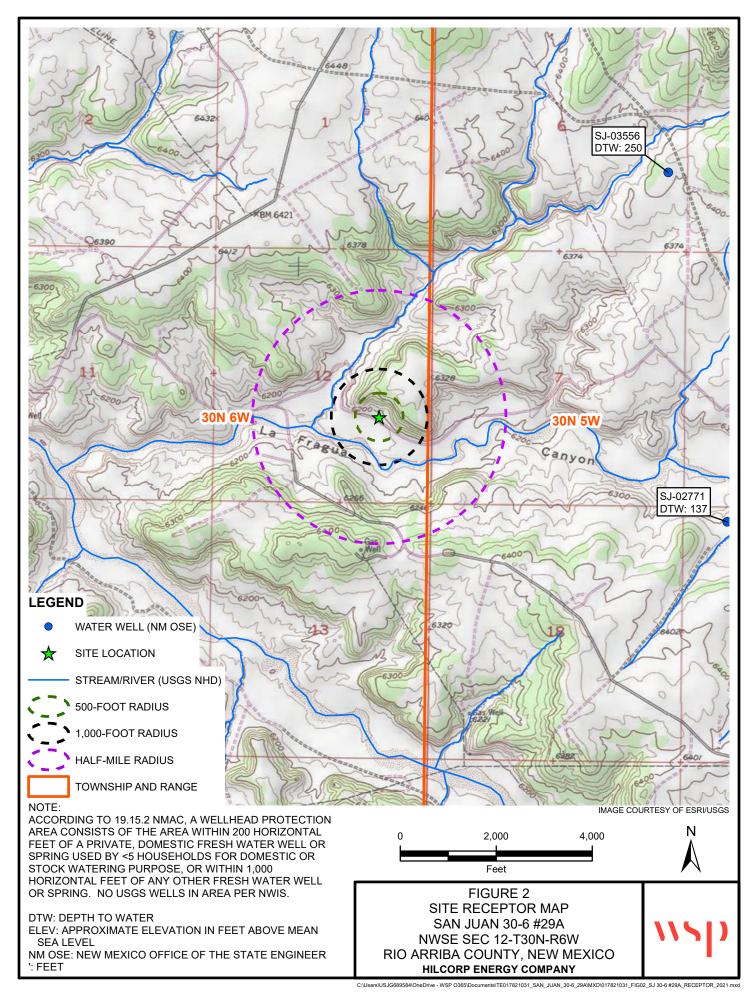
Photographic Log

Enclosure A: Deep Ground Bed Cathodic Protection Well Log

Enclosure B: Analytical Laboratory Reports

FIGURES







TABLES

TABLE 1 SOIL ANALYTICAL RESULTS

SAN JUAN 30-6 29A RIO ARRIBA COUNTY, NEW MEXICO HILCORP ENERGY COMPANY

Soil Sample Identification	Sample Date	PID (ppm)	Chloride Field Test (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO + DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)
NMOCD Clorus	sre Criteria			10	NE	NE	NE	50	20,000	NE	NE	1,000	NE	2,500
Field Screening	8/10/2021	1.2	<120	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SS01	8/13/2021	0.8	<120	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	<60	<4.8	<9.6	<9.6	<48	<48

Notes:

mg/kg - milligrams per kilogram

BTEX - benzene, toluene, ethylbenzene, and total xylenes analyzed by US EPA method 8021B

GRO - gasoline range organics analyzed by US EPA method 8015D

DRO - Diesel Range Organics analyzed by US EPA method 8015D

MRO - motor oil range organics analyzed by US EPA method 8015D

TPH - total petroleum hydrocarbons (sum of GRO, DRO and MRO)

NMOCD - New Mexico Oil Conservation Division

PID - photoionization detector

ppm - parts per million

NE - not established

NS - not sampled

Bold - indicates value exceeds stated NMOCD closure criteria

< - indicates value is less than the stated laboratory reporting limit

WSP 1 of 1

PHOTOGRAPHIC LOG



	PHOTOGRAPHIC LOG	
HILCORP ENERGY	SAN JUAN 30-6 29a	TE017821031
COMPANY	RIO ARRIBA COUNTY, NEW MEXICO	

 Photo No.
 Date

 1
 8/13/2021

View looking northwest of the bermed area after the pit tank was removed and during confirmation sampling.



Photo No. Date
2 8/13/2021

View looking north.



ENCLOSURE A - DEEP GROUND BED CATHODIC PROTECTION WELL LOG

3479

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

30-039-24302

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit E Sec. 12 Twp30 Rng 6
Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #438
cps 2061w
Elevation6220' Completion Date 12/12/88 Total Depth 460' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 120' NO SAMPLE
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 415', 405', 390', 340', 290', 275', 200', 190', 175', 150'
Depths vent pipes placed: 458'
Vent pipe perforations: 400'
Remarks: gb #1
OIST: 3:

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

^{*}Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

rilling Log (Attach Here	to)	-				(Completion D	Date 12/12	188
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2061 W	30-6	438		3	3345A			Good	∑ Bad 7 ″
cation:	Anode Si		Anode Ty	=		Size Bit: 74 *		1-2	· · · · · · · · · · · · · · · · · · ·
E 12-30-	6 2 x	60"	Drilling Rig Tim	AFION	Total Lbs. Coke Used		on Mat'l Used	No. Sacks Mud I	
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node Output (Amps)	3 # ک	2.1	4 2.0	# 5 2 . 9	#6 2.5	- #7 2.8	* 8 2.5	#93.1	# 10 4.
node Depth 11 # 12	# 13	3 ;	# 14	# 15	# 16	# 17	# 18	# 19	# 20
node Output (Amps)	# 1:		≭ 14	# 15	# 16	# 17	# 18	 	# 20
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ENCLOSURE B -ANALYTICAL LABORATORY REPORTS



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

August 24, 2021

Lindsay Dumas HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: SJ 30 6 29A OrderNo.: 2108790

Dear Lindsay Dumas:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Project:

Lab ID:

SJ 30 6 29A

2108790-001

Analytical Report

Lab Order 2108790 Date Reported: 8/24/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS01

Collection Date: 8/13/2021 9:15:00 AM Matrix: SOIL Received Date: 8/14/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	8/20/2021 10:53:22 AM	62091
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/18/2021 4:37:56 PM	62028
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2021 4:37:56 PM	62028
Surr: DNOP	86.0	70-130		%Rec	1	8/18/2021 4:37:56 PM	62028
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/18/2021 4:46:00 PM	62002
Surr: BFB	107	70-130		%Rec	1	8/18/2021 4:46:00 PM	62002
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	ND	0.024		mg/Kg	1	8/18/2021 4:46:00 PM	62002
Toluene	ND	0.048		mg/Kg	1	8/18/2021 4:46:00 PM	62002
Ethylbenzene	ND	0.048		mg/Kg	1	8/18/2021 4:46:00 PM	62002
Xylenes, Total	ND	0.095		mg/Kg	1	8/18/2021 4:46:00 PM	62002
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	8/18/2021 4:46:00 PM	62002

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2108790 24-Aug-21**

Client: HILCORP ENERGY

Project: SJ 30 6 29A

Sample ID: MB-62091 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 62091 RunNo: 80680

Prep Date: **8/20/2021** Analysis Date: **8/20/2021** SeqNo: **2846866** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-62091 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62091 RunNo: 80680

Prep Date: 8/20/2021 Analysis Date: 8/20/2021 SeqNo: 2846867 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.1 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108790 24-Aug-21

Client: HILCORP ENERGY

Project: SJ 30 6 29A

Sample ID: MB-62028 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 62028 RunNo: 80620 Prep Date: 8/17/2021 Analysis Date: 8/18/2021 SeqNo: 2844115 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 10 ND 50

Motor Oil Range Organics (MRO)

Surr: DNOP 70 13 10.00 130 130

Sample ID: LCS-62028 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 62028 RunNo: 80662 Prep Date: 8/17/2021 Analysis Date: 8/19/2021 SeqNo: 2845395 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 68.9 55 50.00 109 141

Surr: DNOP 5.5 5.000 111 70 130

Sample ID: MB-62095 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62095 RunNo: 80691

Prep Date: 8/20/2021 Analysis Date: 8/20/2021 SeqNo: 2846661 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 10.00 70 106 130

Sample ID: LCS-62095 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 62095 RunNo: 80691

Prep Date: 8/20/2021 Analysis Date: 8/20/2021 SeqNo: 2846662 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual 98.4 Surr: DNOP 4.9 5.000 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2108790**

24-Aug-21

Client: HILCORP ENERGY

Project: SJ 30 6 29A

Sample ID: mb-62002 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 62002 RunNo: 80628

Prep Date: 8/16/2021 Analysis Date: 8/18/2021 SeqNo: 2844295 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 70 130

Sample ID: Ics-62002 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 62002 RunNo: 80628

1200

Prep Date: 8/16/2021 Analysis Date: 8/18/2021 SeqNo: 2844297 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 78.6 131

70

130

119

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2108790**

24-Aug-21

Client: HILCORP ENERGY

Project: SJ 30 6 29A

Sample ID: mb-62002 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 62002 RunNo: 80628

Prep Date: 8/16/2021 Analysis Date: 8/18/2021 SeqNo: 2844329 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.95 1.000 95.3 70 130

 Sample ID: Ics-62002
 SampType: LCS
 TestCode: EPA Method 8021B: Volatiles

 Client ID: LCSS
 Batch ID: 62002
 RunNo: 80628

 Prep Date: 8/16/2021
 Analysis Date: 8/18/2021
 SeqNo: 2844331
 Units: mg/Kg

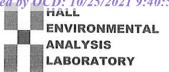
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	HILCORP ENERGY	Work Order Numbe	er: 210	8790			RcptNo:	1
Received By:	Isaiah Ortiz	8/14/2021 8:35:00 AF	M		I.	0-1		
Completed By:	Isaiah Ortiz	8/16/2021 7:23:10 AM	И		and and	04		
Reviewed By: (Cl	8/16/21						
Chain of Custo	od <u>y</u>							
1. Is Chain of Cus	stody complete?		Yes	V	No [Not Pres	ent 🗌	
2. How was the sa	ample delivered?		Cou	<u>rier</u>				
<u>Log In</u> 3. Was an attemp	t made to cool the sam	ples?	Yes	✓	No 🗆		na 🗌	
4. Were all sample	es received at a temper	ature of >0° C to 6.0°C	Yes	✓	No 🗆		NA 🗌	
5. Sample(s) in pr	roper container(s)?		Yes	✓	No 🗆			
6. Sufficient samp	le volume for indicated	est(s)?	Yes	V	No 🗆			
7. Are samples (ex	xcept VOA and ONG) p	operly preserved?	Yes	V	No _			
8. Was preservativ	ve added to bottles?		Yes		No 🗸] N	IA 🗌	
9. Received at least	st 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗆	1	NA 🗸	
10. Were any samp	ole containers received	oroken?	Yes		No 🗸	# of preserv	ved	
	match bottle labels?		Yes	V	No 🗆	bottles ched	cked	
	cies on chain of custod					Adjus		>12 unless noted)
	rrectly identified on Cha		Yes	-	No L	Aujus	ted?	
	analyses were requested times able to be met?	1?	Yes	V	No L	Chack	ed by:	JR 8/16/21
	stomer for authorization.)	Yes	•	NO L	CHECK	eu by.	1128/16/21
Special Handlin	ng (if applicable)							
	fied of all discrepancies	with this order?	Yes		No 🗆		NA 🗸	
Person N	otified:	Date:	and the second	Mineralization	Petro Period Priority Constitution (Co.)	enc'		
By Whom	n:	Via:	eMa	ail 🗆	Phone Fa	ax In Persor	า	
Regarding	g: [HILTONIA COLUMN	and all property	DESCRIPTION OF THE PARTY OF THE		Description	
Client Ins	tructions:	THE RESIDENCE OF THE PROPERTY					and problems about	
16. Additional rema	arks:							
17. <u>Cooler Inform</u> Cooler No 1	Temp °C Condition 1.8 Good	Seal Intact Seal No Not Present	Seal D	ate	Signed By			

Client:	Chain	-of-C	ustody Record	Turn-Around	d Time:	erenter or and a single or and a	7			-	I A I				/TE	20		MER	MT-4		
Client:	HI	COIP		Standard □ Rush			-														,
	Lind	Say	Dumas	Project Name: www.hallenvironmental.com			YSIS LABORATORY														
Mailing	g Addres	s:		(2 3	0-6	4 291		40	04.1												
· ——				Project #:	0-6	40101	-											7109			
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> —	or Fax#:			Project Mana	ader.	*						-	DATE OF THE PARTY.	ysis	Req						Ц
. —	Package						12(1RO	_S		ွ		SO ₄			sent					
Star			☐ Level 4 (Full Validation)	Stuar	+ Hyde -	WST	(8)	N / C	PCB's		NS		0,40			/Abs					0
			ompliance	Sampler: 1	Éric Corri	- 11	₩.	DRC	82 F		8270SIMS) ₂ , F			sent					
□ NEI		□ Othe		On Ice:	● Yes	□ No	H	0 / ا	98/	504.1)	or 8;		ž		F	Pres					
□ EDI	O (Type)	a lie		# of Coolers:			8	(GR	ides	od 5	10	tals	03,		-40) m	0)	, a - 2			
				Cooler Temp	(including CF): 1,8	(°C)	I₩	15D	stic	ethc	83	Me	ت ا	8 O	emi	lifor	Pin	7			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2108790	BTEX/-MTBE/ TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO ₃ , NO ₂ , PO ₄ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride				
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Date: 8/13/1	Time: 1820	Relinquish	ed by:	Received by:	Via:	Date Time			C, 9	564	ON.D	· h	yor	C (usp	· Co	om				

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 40278

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	40278
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source					
Please answer all of the questions in this group.					
Site Name	San Juan 30-6 29A				
Date Release Discovered	08/04/2021				
Surface Owner	Federal				

Incident Details	
Please answer all of the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endagering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications	ations for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pit (Specify) Produced Water Spilled: 10 BBL Recovered: 0 BBL Lost: 10 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	pit tank
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc)	Not answered.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natur	al gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response							
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.							
The source of the release has been stopped	True						
The impacted area has been secured to protect human health and the environment	True						
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True						
All free liquids and recoverable materials have been removed and managed appropriately	True						
If all the actions described above have not been undertaken, explain why	Not answered.						
0.40.45.00.0 0.70.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0							

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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

ACKNOWLEDGMENTS

Action 40278

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	40278
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

- **ACKNOWLEDGMENTS** I acknowledge that I am authorized to submit notification of a releases on behalf of my operator. I acknowledge that upon submitting this application, I will be creating an new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action",
- pursuant to NMAC 19.15.29 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
- I acknowledge the fact that 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.
- I acknowledge the fact that, 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.

District I
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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 40278

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street Houston, TX 77002	Action Number: 40278
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
system	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/5/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 57610

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	57610
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	1/7/2022