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

State of New Mexico Energy Minerals and Natural **Resources Department**

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

Page 1 of 33

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 email: <u>ldumas@hilcorp.com</u>	Incident # (assigned by OCD)
Contact mailing address: 1111 Travis Street, Houston, TX 77002	

Location of Release Source

Latitude 36.82452

Longitude107.41078 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: San Juan 30-6 29A	Site Type: gas well
Date Release Discovered: 8/4/2021	API# (if applicable): 30-039-25607

Unit Letter	Section	Township	Range	County
J	12	30N	6W	Rio Arriba

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Mater	ial(s) Released (Select all that apply and attach calculations or specif	ic justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): 10	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release:	•	

Cause of Release:

Operator was doing his normal location check, finding a weeping spot on very bottom of pit. He contacted supervisor and removed the reaming fluid from pit. Operator calculated a loss10 bbls of produced water. No standing fluid to recover.

Damp spot on the north side of pit cellar. Approximate 5" wide X 10' long. Looks like the other impacted area is under the pit.

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	
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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 \boxtimes All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

	Title:Environmental Specialist
Signature: Kinonay Duna	Date:8/5/2021
email:ldumas@hilcorp.com	Telephone:832-839-4585
OCD Only	
Received by: <u>Ramona Marcus</u>	Date: <u>10/29/2021</u>

	Page 3 of 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?	<u>120</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
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)?	🗌 Yes 🛛 No
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?	🗌 Yes 🛛 No
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

•

Page 3

Form C-141 Page 4	State of New Oil Conservatio		Incident ID District RP Facility ID Application ID	nAPP2121753231
regulations all ope public health or th failed to adequated	at the information given above is true and erators are required to report and/or file cer the environment. The acceptance of a C-14 by investigate and remediate contamination ceptance of a C-141 report does not relieve	tain release notifications and perform 1 report by the OCD does not relieve to a that pose a threat to groundwater, su:	corrective actions for rele the operator of liability sh rface water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name:	Billy Ginn	Title:E	invironmental Specialis	t
	am.ginn@hilcorp.com	Date:10/25/20		
OCD Only Received by:	Ramona Marcus	Date: 10/	/29/2021	

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Form C-141 Page 6

State of New Mexico Oil Conservation Division

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.

Closure Report Attachment Checklist: Each of the fold	lowing items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropri	ate ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or fil may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accept compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to	complete to the best of my knowledge and understand that pursuant to OCD rules le certain release notifications and perform corrective actions for releases which tance of a C-141 report by the OCD does not relieve the operator of liability e and remediate contamination that pose a threat to groundwater, surface water, ance of a C-141 report does not relieve the operator of responsibility for or regulations. The responsible party acknowledges they must substantially o the conditions that existed prior to the release or their final land use in to the OCD when reclamation and re-vegetation are complete.	
Printed Name:Billy Ginn	Title:Environmental Specialist	
Signature:	Date:10/25/2021	
email:william.ginn@hilcorp.com	Telephone:(346) 237-2073	
OCD Only Received by: Ramona Marcus	Date:10/29/2021	
Closure approval by the OCD does not relieve the responsib remediate contamination that poses a threat to groundwater, s party of compliance with any other federal, state, or local la	le party of liability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible ws and/or regulations.	
Closure Approved by: <u>Nelson Velez</u> Nelson Velez	Date: 01/07/2022	
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv	
000		
d by		
Received by OCP		
2		



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 wsp.com Released to Imaging: 1/7/2022 3:12:04 PM

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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.

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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

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

Ashley J. Ager

Ashley Ager, M.S., P.G. Managing Director, Geologist

.

FIGURES



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C:\Users\USJG689584\OneDrive - WSP O365\Documents\TE017821031_SAN_JUAN_30-6_29A\MXD\017821031_FIG01_SJ 30-6 #29A_SL_2021.mxd





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

PHOTOGRAPHIC LOG

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Photo No.	Date	
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View loo	king north.	<image/>

ENCLOSURE A - DEEP GROUND BED CATHODIC PROTECTION WELL LOG

by OCD. I	(0/25/2021 9:40:53 AM	1	Page 18 oj
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<u></u>			
	NORTI	GROUND BED CATHODIC PROTECTION WELLS HWESTERN NEW MEXICO	
039 -	24302 (Submit 3 co	opies to OCD Aztec Office)	
Opei	cator MERIDIAN OIL INC.	Location: Unit E Sec. 12 Twp30	0 Rng
		e Serviced SAN JUAN 30-6 UNIT #43	
Naille	: OI WEIL/WEILS OI PIPEIINE		
		cps 20	<u> </u>
Elev	vation6220' Completion Date	12/12/88 Total Depth 460' Land Type	* N/A
Cas:	ing, Sizes, Types & Depths_	N/A	
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	Casing is cemented, show an	mounts a types used	
	•••••••		
If (Cement or Bentonite Plugs h	have been placed, show depths & amou	nts us
	N/A		::.
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ries	sh, Clear, Salty, Sulphur,	ECC. <u>IZU NO SAMPLE</u>	<u> </u>
Dept	ths gas encountered:	N/A	
Туре	e & amount of coke breeze u	used:N/A	
Dept	ths anodes placed:415', 405'	, 390', 340', 290', 275', 200', 190', 175',	150'
_	hs vent pipes placed:		
Vent	: pipe perforations:	400' MAY 21 1961	
Rema	arks: (gb #1)	Ell CON MAY	
		OIST: 32	

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. **Received by OCD: 10/25/2021 9:40:53 AM**

• •		WELL C	CASING	
CATHODIC	2	PROTECTION	CONSTRUCTION	REPORT
		DAILY	(LOG	

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

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Drilling Log (Attach H	ereto)					C	omplețion E	Date_12/12	/88
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		AT .						Good	Bad
2061 W	30-6	<u>438</u>		33	,45A				
Location:	Anode Si	ze:	Anode Typ			Size Bit:		1-2	<u>></u>
E 12-30	-6 2'	60"		FiSN					
Depth Drilled	Depth Logged		Drilling Rig Time	: To	tal Lbs. Goke Used	Lost Circulation	Mat'l Used	No. Sacks Mud L	lsed
460	45	8							
Anode Depth # 1 415 # 2	1100	190							
Anode Output (Amps)	403 #3	<i>370</i> #	4340	#5 290	# 6 275	#7 200	*8 /90	#9 /75	# 10 150
# 1 2.1 # 2	2.5 # 3	2.1 #	4 2.0	# 5 2.8	#6 2.5	#7 2.8	\$ 2.5	#9 3.1	# 10 4.2
Anode Depth				1	1	1	1	1	1
# 11 # 12 Anode Output (Amps)	# 13	3 #	14	# 15	# 16	# 17	# 18	# 19	# 20
				1	1	1			
# 11 # 12 Total Circuit Resista		<u>4 1</u>	14	# 15	# 16 No. 8 C.P. Ca	¦# 17 ble Used	# 18	# 19 No. 2 C.P. Co	¦#20 ∎ble Used
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D. CrASS **DRILLING CO.**

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Drill No. 3

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DRILLER'S WELL LOG

S. P. No. S. J. 30-6 # 438 Date 12-12-88 Client Meridian O:/ Co. Prospect County Rio Arriba State New Mex

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	то	FORMATION - COLOR - HARDNESS
0	40	shale
60	80	SANC
80	100	SANdy shale
100	140	SANC
140	210	Shate
210	265	SANdstone
265	290	shake.
290	330	SANdstone
330	355	SANdy Shale
355	385	SANdstone
385	425	shale
	460	SANdstone
······		
Mud		Brom Lime
		Małe
Remarks:	WAte	r @ 120'
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	Dr	

的人名英格兰斯德德斯德斯德德尔德 医前方 化乙酸 医二乙酸 医二乙酸盐 化乙基酸乙酯 医外骨髓炎 化过度分子 网络小麦根子加斯 化碘基苯酚 医胆氨酸胆酸 医胆素试验检尿道 计算法 医外外的

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ENCLOSURE B -ANALYTICAL LABORATORY REPORTS



August 24, 2021

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

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2108790

Date Reported: 8/24/2021

CLIENT: HILCORP ENERGY	Client Sample ID: SS01 Collection Date: 8/13/2021 9:15:00 AM									
Project: SJ 30 6 29A										
Lab ID: 2108790-001	Matrix: SOIL		Received Date	e: 8/1	14/2021 8:35:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ				
Chloride	ND	60	mg/Kg	20	8/20/2021 10:53:22 AM	62091				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				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 S

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

Page 1 of 5

Client: Project:		CORP ENERGY) 6 29A	,								
Sample ID:	MB-62091	SampTy	pe: m t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 62	091	F	RunNo: 80	0680				
Prep Date:	8/20/2021	Analysis Da	te: 8/	20/2021	5	SeqNo: 28	346866	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-62091	SampTy	pe: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 62	091	F	RunNo: 80	0680				
Prep Date:	8/20/2021	Analysis Da	te: 8/	20/2021	S	SeqNo: 28	346867	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	90	110			

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 S

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

Page 2 of 5

2108790

24-Aug-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: HILCOF	RP ENERGY			
Project: SJ 30 6 2	29A			
Sample ID: MB-62028	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: PBS	Batch ID: 62028	RunNo: 80620		
Prep Date: 8/17/2021	Analysis Date: 8/18/2021	SeqNo: 2844115	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	13 10.00	130 70	130	
Sample ID: LCS-62028	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e 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	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	55 10 50.00	0 109 68.9	141	
Surr: DNOP	5.5 5.000	111 70	130	
Sample ID: MB-62095	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e 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 PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
		SFR REI VAI /0REC LUWLIIIII	Ingrienni /orti D	
Surr: DNOP	11 10.00	106 70	130	
,			130	
Surr: DNOP	11 10.00	106 70	130	
Surr: DNOP Sample ID: LCS-62095	11 10.00 SampType: LCS	106 70 TestCode: EPA Method	130	
Surr: DNOP Sample ID: LCS-62095 Client ID: LCSS	11 10.00 SampType: LCS Batch ID: 62095 Analysis Date: 8/20/2021	106 70 TestCode: EPA Method RunNo: 80691	130 8015M/D: Diesel Range	

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

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2108790

24-Aug-21

	CORP ENERC 0 6 29A	θY								
Sample ID: mb-62002	•	Type: ME					8015D: Gasc	line Rang	e	
Client ID: PBS	Batc	h ID: 62	002	R	lunNo: 8	0628				
Prep Date: 8/16/2021	Analysis I	Date: 8/	18/2021	S	eqNo: 2	844295	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC)) ND	5.0								
Surr: BFB	1000		1000		104	70	130			
Sample ID: Ics-62002	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batc	h ID: 62	002	R	unNo: 80	0628				
Prep Date: 8/16/2021	Analysis I	Date: 8/	18/2021	S	eqNo: 2	844297	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC) 25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		119	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 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

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2108790

24-Aug-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	HILCORP ENERG SJ 30 6 29A	θY								
Sample ID: mb-6200	2 Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 62	002	F	RunNo: 8	0628				
Prep Date: 8/16/20	21 Analysis [Date: 8/	18/2021	S	SeqNo: 2	844329	Units: mg/K	٢g		
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-Bromofluoroben:	zene 0.95		1.000		95.3	70	130			
Sample ID: Ics-6200	2 Samp ⁻	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 62	002	F	RunNo: 8	0628				
Prep Date: 8/16/20	21 Analysis [Date: 8/	18/2021	S	SeqNo: 2	844331	Units: mg/K	٢g		
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			
V La constanta I			0 000	0	00 7		400			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			

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

2108790

24-Aug-21

ANALYSIS	Hall Environmen A TEL: 505-345-39	tal Analysis Labora 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- hallenvironmental.	s NE 7109 Sam 4107	Sample Log-In Check List				
Client Name: HILCORP ENERGY	Work Order Numb	per: 2108790		RcptNo: 1				
Received By: Isaiah Ortiz	8/14/2021 8:35:00 A	M	ILO	4				
Completed By: Isaiah Ortiz	8/16/2021 7:23:10 A	M	ILO	L				
Reviewed By:	8/16/21							
Chain of Custody								
1. Is Chain of Custody complete?		Yes 🗹	No	Not Present				
2. How was the sample delivered?		Courier						
Log In 3. Was an attempt made to cool the sam	-12	Yes 🗸	No 🗌					
o. was an altempt made to cool the sam	pies?	Yes 🖤		NA				
4. Were all samples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA				
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗌					
7_{\cdot} Are samples (except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗌					
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌				
9. Received at least 1 vial with headspace	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹				
10. Were any sample containers received	broken?	Yes	No 🗹	# of preserved				
11. Does paperwork match bottle labels? (Note discrepancies on chain of custod	y)	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)				
12. Are matrices correctly identified on Cha	in of Custody?	Yes 🗸	No 🗌	Adjusted?				
13. Is it clear what analyses were requeste	d?	Yes 🗹	No 🗌					
14. Were all holding times able to be met? (If no, notify customer for authorization)	Yes 🗹	No 🗌	Checked by: JR 8/16/2				
Special Handling (if applicable)			/					
15. Was client notified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹				
Person Notified:	Date:		ene placks contrationer and of					
By Whom:	Via:	eMail P	hone 🦳 Fax	In Person				
Regarding:								
Client Instructions:				Annalistis de un que la la sua esta esta función da la construcción da un				
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By					

Page 1 of 1

Client:		-of-C	ustody Record	Turn-Around															NT/	
				Project Name:		ANALYSIS LABORATORY														
Mailing Address:			- CJ 30-1 429A			A MANUTATION AND A														
				S J 3 O - G # 29A 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Tol. 505 245 2075 For 505 245 4007					10/23/2											
						Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
ý ——	or Fax#:			Project Mana	ager:			()					The Party of the	515	Neg					141 7.40.33 AM
QA/QC	Package	:			5 Hyde -	IN/SP	021	MRC	3's		1S		Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	5		Total Coliform (Present/Absent)				40.5
🛛 🛛 Star	ndard	-	□ Level 4 (Full Validation)	SECURI	5 Myac -		BTEX/ MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		8270SIMS	1								
	litation:		ompliance	Sampler:	Eric Carri	01/	EMB	/ DR	082	,	827(10 ₂ ,			eser				
	_AC D (Type)	□ Othe	r	On Ice:	Yes	🗆 No	17	RO	es/8	504.1)) or	s	3, N		(AO	(Pre				
		T		# of Coolers: Cooler Temr	(including CF): 1,8	(°C)	4TB	D(G	ticid	hod	8310	Meta	8	(A	ni-V	form	de	1		
							5	3015	Pes	(Met	þ	7 8 V	Ъ	S	(Ser	Colit	150	34		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2108790	(Ĕ)	PH:8	8081 Pesticides/8082	EDB (Method	PAHs by 8310 or	RCRA 8 Metals	ц	8260 (VOA)	8270 (Semi-VOA)	otal	Chloride			
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8/13 Date:	1310 Time:		i conoll	1:17-1	-kt	8/13/21 13/6	Rem	narks	s: C / S	Chi	art	- las	do	Q,)				2
8/13/2	15.25 (2 4 A COC A S A C	Cha	the folgala	Received by:	Via:	Date Time				209	- 4 L	. <i>my</i>	o'C	CU	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	. 06	ריי ל			1 67 aSn 1
1 -10		1 IVW	m vuerte	1-1-0-	~ collen	8.14.21 0835								di.	1					

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

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

District III

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

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

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

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 justifice 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.

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.

QUESTIONS

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Action 40278

District I

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

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

District III

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

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

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

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 19.15.29.
 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.

V 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.

Action 40278

Page 31 df 33

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

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District IV

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

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	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

CONDITIONS

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Action 40278

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

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

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

CONDITIONS

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

CONDITIONS

Created By		Condition Date
nvelez	None	1/7/2022

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Action 57610