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	nAPP2314353244
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Mitch Killough	Contact Telephone 713-757-5247
Contact email mkillough@hilcorp.com	Incident # nAPP2314353244
Contact mailing address 1111 Travis Street, Houston, Texas 77002	

### **Location of Release Source**

Latitude 36.842775

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Salty Dog SWD 4	Site Type Salt Water Disposal
Date Release Discovered 5/8/2023 @ 8:18 am MT	API# 30-045-32334

Unit Letter	Section	Township	Range	County
Κ	01	30N	14W	San Juan

Surface Owner: State Federal Tribal Private (Name:

## Nature and Volume of Release

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

Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls) 10.2 bbls	Volume Recovered (bbls) 5 bbls
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ⊠ No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) 10.2 bbls   Is the concentration of dissolved chloride in the produced water >10,000 mg/l?   Volume Released (bbls)   Volume Released (Mcf)

Cause of Release:

On 5/8/2023 at 8:18 am (MT), 10.2 bbls produced water was released from an injection wellhead when a pressure gauge that was tied to the backside casing valve failed resulting in the release of produced water. As soon as the release was found during a routine inspection on 5/8/2023, the operator closed the valve to stop the leak. After stopping the leak, a trash-pump was used to recover approximately 5 bbls of standing produced water into the pit tank on location. 5.2 bbl produced water could not be recovered and soaked into the pad surface.

The spill amount was determined by pulling data from Hilcorp's SCADA software (i.e. Cygnet). Hilcorp will notify NMOCD 48 hrs prior to final confirmation sampling.

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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

 $\square$  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.

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

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

Ship July

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

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

Printed Name: \_\_\_\_Mitch Killough \_\_\_\_\_\_\_ Title: \_\_\_\_Environmental Specialist\_\_\_\_\_\_

Signature: \_\_\_\_

email: \_\_\_\_mkillough@hilcorp.com \_\_\_\_\_\_ Telephone: \_\_\_\_713-757-5247\_\_\_\_\_

\_\_\_\_\_ Date: 5/23/2023\_\_\_\_\_

0	CD	Only

Received by: Jocelyn Harimon Date: 05/24/2023



### SYSTEM IDENTIFICATION

147.27

155.45

163.64

171.82

180.00

70.91

78.18

85.45

92.73

100.00

0.97

1.01

1.05

1.08

1.11

6.23

6.69

7.17

7.66

8.16

N/A

N/A

N/A

N/A

N/A

-741.56

-695.63

-649.91

-604.90

-560.98

N/A

N/A

N/A

N/A

N/A

-775.42

-753.68

-733.65

-715.21

-698.25

### WATER CHEMISTRY

									CATIONS					NIONS			
	Energy								Calcium	(as Ca)		67.1	LO	Chloride(a	as CI)		7400
	og #4 SV	VD						Magnesium(as Mg)			24.5	53	Sulfate(as SO <sub>4</sub> )			0.00	
Pre Filt	ler							Barium(as Ba)			16.6	51	Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )			70.00	
								Strontium(as Sr)				17.2	25	Bicarbonate(as HCO <sub>3</sub> )			1830
									Sodium	(as Na)		518	35	Carbonat	e(as CO <sub>3</sub> )		0.00
									Potassiu	um(as K)		20.7	73	Phosphat	e(as P)		0.489
									Iron(as	Fe)		0.64	16	H <sub>2</sub> S (as H	I <sub>2</sub> S)		2.00
Comple	. ID#.	0							Aluminu	um(as Al)	1	0.026	50	Boron(as	B)		3.13
Sample	e ID#:	0	203-24-01						Mangar	nese(as M	ln)	0.067	70				
ID		2	203-24-01														
Sample	e Date:		03-09-2022	2 at 0000	)				PARAMET	ERS							
Report	Date:		03-15-2022	2				Temperature( <sup>O</sup> F)			50.0	00	Sample pH			7.50	
-								Conductivity			1380	06	Sp.Gr.(g/mL)			1.009	
						Resistivity					72.4	13	T.D.S.			14688	
SCALE AI	ND CORRC	OSION PO	TENTIAL														
Temp.	Press.	Ca	lcite	Anl	nydrite	Gy	/psum	Ba	rite	Ce	lestite	Sid	erite	Macl	kinawite	CO <sub>2</sub>	pCO <sub>2</sub>
( <sup>0</sup> F)	(psia)	Ca	CO3	C	aSO <sub>4</sub>	CaSC	0 <sub>4</sub> *2H <sub>2</sub> O	Ba	BaSO <sub>4</sub> SrSO <sub>4</sub>		rSO4	FeCO <sub>3</sub>		FeS		(mpy)	(psia)
90.00	20.00	0.64	3.34	N/A	-1012	N/A	-924.42	N/A	-1.09	N/A	-102.55	1.93	0.442	0.47	0.0632	0.0770	0.921
98.18	27.27	0.70	3.75	N/A	-984.48	N/A	-927.21	N/A	-1.25	N/A	-101.27	2.01	0.441	0.55	0.0702	0.104	1.26
106.36	34.55	0.75	4.14	N/A	-951.82	N/A	-915.33	N/A	-1.42	N/A	-99.80	2.09	0.439	0.61	0.0735	0.128	1.59
114.55	41.82	0.80	4.53	N/A	-914.87	N/A	-882.56	N/A	-1.59	N/A	-98.41	2.16	0.437	0.65	0.0750	0.132	1.93
122.73	49.09	0.84	4.94	N/A	-874.55	N/A	-852.39	N/A	-1.79	N/A	-97.14	2.22	0.434	0.68	0.0753	0.133	2.26
130.91	56.36	0.89	5.36	N/A	-831.70	N/A	-824.61	N/A	-1.99	N/A	-95.98	2.29	0.430	0.69	0.0748	0.128	2.60
139.09	63.64	0.93	5.79	N/A	-787.13	N/A	-799.01	N/A	-2.22	N/A	-94.94	2.35	0.425	0.70	0.0737	0.119	2.93

Lbs per Log(SR) Log(SR) 1000 Log(SR) 1000 Log(SR) 1000 Log(SR) 1000 Log(SR) 1000 Log(SR) 1000 1000 Barrels Barrels Barrels Barrels Barrels Barrels Barrels Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO<sub>3</sub>}/K<sub>sp</sub>. pCO<sub>2</sub> (psia) is the partial pressure of CO<sub>2</sub> in the gas phase.

-2.47

-2.73

-3.01

-3.31

-3.64

N/A

N/A

N/A

N/A

N/A

-93.99

-93.15

-92.40

-91.75

-91.18

2.41

2.46

2.51

2.56

2.60

0.418

0.410

0.400

0.388

0.375

0.71

0.71

0.70

0.69

0.68

0.0721

0.0700

0.0675

0.0645

0.0610

0.127

0.138

0.148

0.158

0.139

3.27

3.60

3.94

4.27

4.61

N/A

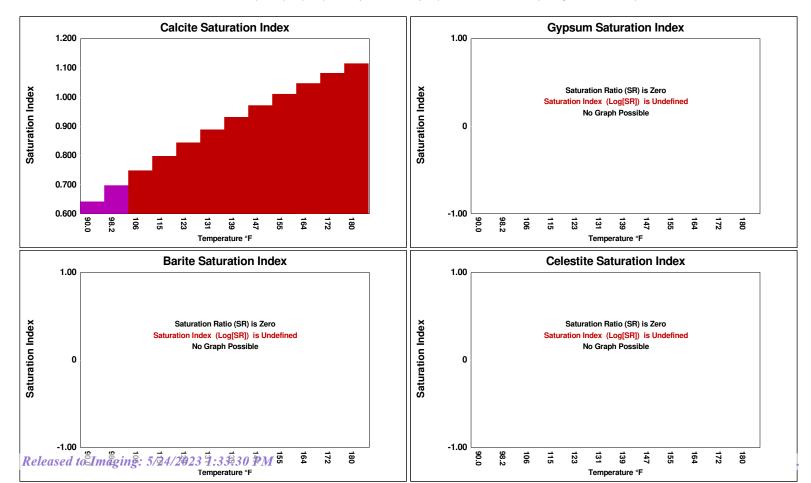
N/A

N/A

N/A

N/A

Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.



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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:				
HILCORP ENERGY COMPANY	372171				
1111 Travis Street	Action Number:				
Houston, TX 77002	219888				
	Action Type:				
	[C-141] Release Corrective Action (C-141)				

### CONDITIONS

Created By		Condition Date
jharimon	None	5/24/2023

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Action 219888