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

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action													
						OPERATOR   Initial Report						Final Report	
Name of Company Hilcorp Energy Company						Contact Jennifer Deal							
Address 382 Road 3100 Aztec, NM 87410 Facility Name La Plata 8 4						Telephone No. (505) 324-5128 Facility Type Gas Well							
Tuerny name za maa o						Table y type day item							
Surface Ow	ner		Mineral C	wner	Federal			API No. 30-045-31727					
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line East		County			
I	08	31N	13W	1978	South	1	851			San Juan County			
Latitude 36.9129257_ Longitude -108.2216949 NAD83													
NATURE OF RELEASE													
Type of Rele	ase Produ	ced Water	11111	Volume of	Volume F	olume Recovered 20bbls							
Source of Re	lease Prod	uced Water T						and Hour of Discovery					
Was Immediate Notice Given?						Unknown 5/16/2018 @11:3  If YES, To Whom?							
			No Not Re	equired									
By Whom?				Date and Hour									
Was a Watercourse Reached?  ☐ Yes ☒ No						If YES, Volume Impacting the Watercourse.							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k					-	MMOO	n	· · · · · · · · · · · · · · · · · · ·	
NMOCD													
MAY 2 1 2018													
Describe Course of Dueblance and Described Asting Tallow *													
Describe Cause of Problem and Remedial Action Taken.*  Operator discovered over top spill of produced water potentially caused by vandalism.  All water stayed within the berm.													
Describe Are					nat was	released Co	nfirmation campli	na will	he schedule	ed for next u	ook.		
Timeorp Eller	Hilcorp Energy Company used a vac truck to recover all 20 bbls that was released. Confirmation sampling will be scheduled for next week.												
I hereby certi	fy that the	information g	iven above	e is true and comp	lete to	the best of my	knowledge and u	ndersta	nd that purs	suant to NM	OCD ru	iles and	
regulations al	1 operators	are required t	o report a	nd/or file certain r	elease	notifications a	nd perform correc	ctive act	ions for rela	eases which	may en	danger	
should their of	or the envi	ronment. The have failed to a	acceptant adequately	ce of a C-141 report investigate and re	rt by tl emedia	ne NMOCD m te contaminati	arked as "Final R on that pose a thre	eport" d	loes not reli	ieve the oper	rator of ter hur	liability nan health	
or the environ	nment. In a	ddition, NMC	OCD accep	otance of a C-141	report o	does not reliev	e the operator of	respons	ibility for co	ompliance w	ith any	other	
federal, state,		ws and/or regu					OIL CON	SERV	ATION	DIVISIO	) TxI		
G:	6	Jennifer Deal			OIL CONSERVATION DIVISION								
Signature: 0 °						Approved by Environmental Specialists							
Printed Name	: Jennifer	Deal		Approved by Environmental Specialist:									
Title: Enviro	onmental S	pecialist			Approval Date: 5/23/18 Expiration Date:								
E-mail Addre	ss: jdeal@	hilcorp.com			Conditions of Approval: Sample For								
Date: 5/17/1			Phone: (	505) 324-5128		TPH, Blex, Benze Chlorides							
Attach Addi		ets If Necess					/	0,10					
				7	INC	210141	39837						

3

Operator/Responsible Party,

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before \_\_\_\_\_\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

## Jim Griswold

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