NM OIL CONSERVATION

Date and Hour 9/6/2017 at 9:10 a.m. via email

Please refer to the New Mexico Oil

Conservation Division Website for

http://www.emnrd.state.nm.us/

Thank you

updated form(s) at:

OCD/ forms.html

If YES, Volume Impacting the Watercourse.

ARTESIA DISTRICT

<u>District I</u> 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

By Whom? Bruce Baker

9/19/10/16

Was a Watercourse Reached?

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

☐ Yes ⊠ No

State of New Mexico Energy Minerals and Natural Resources SEP 1 8 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division

Submit 1 Copy to appropriate District Office in **RECEIVED** accordance with 19.15.29 NMAC.

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505					n St. Franc e, NM 875							
Release Notification and Corrective Action												
NAB1726336521							ГOR				Final Report	
							Contact Bruce Baker					
Address 2350 W Marland Street, Hobbs, NM 88240							Telephone No. (432) 631-6982					
Facility Name Cedar Lake Federal CA 762						Facility Type Oil Well						
Surface Owner Federal Mineral Owner I						Federal		API No. 30-015-44398				
				LOCA	TIO	N OF REI	LEASE					
Unit Letter P	Section 7	Township 17S	Range 31E	Feet from the 450'	North	/South Line FSL	Feet from the 75'	East/West Line FEL		County Eddy		-
Latitude 32.84300046 Longitude -103.90571593												
NATURE OF RELEASE												
Type of Release Brine						Volume of Release 37 barrels of brine			Volume Recovered 25 barrels of brine			
Source of Release drilling well						Date and Hour of Occurrence 9/5/2017 at 1300 hrs.			Date and Hour of Discovery 9/5/2017 at 1300 hrs.			
Was Immediate Notice Given?						If YES, To Whom?						
							Shelly Tucker (BLM) and Mike Bratcher					

During drilling operations an unexpected flow was encounter resulting in standing fluid.	n the loss of fluid on the lease pad. A vacuum truck	was dispatched to pick up
Describe Area Affected and Cleanup Action Taken.*		
The entire release was contained to the lease pad. Once the stand and contaminated soil was place in the roll off bind on site. Once		
affected area.	drining operations are complete samples will t	oc conceica from the
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective actions for releathe NMOCD marked as "Final Report" does not relieate contamination that pose a threat to ground water,	ses which may endanger ve the operator of liability surface water, human health
0	OIL CONSERVATION I	DIVISION
Signature: Buce Belon	Can	A ()1 10
Printed Name: Bruce Baker	Approved by Environmental Specialist:	JA WY
Title: Environmental Technician	Approval Date: 01101111 Expiration D	ate: /////
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	~4
Date: 9/18/2017 Phone: (432) 631-6982	Conditions of Approval: See attacked	Attached JAP-4400
* Attach Additional Sheets If Necessary		

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 9/18/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

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 II office in Artesia on or before 10/18/17. 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Baker, Larry <Larry.Baker@apachecorp.com>

Sent: Monday, September 18, 2017 4:07 PM

To: Bratcher, Mike, EMNRD; 'stucker@blm.gov'; Weaver, Crystal, EMNRD

Subject: Initial C-141 Cedar lake CA 762

Attachments: Initial C-141.doc

All,

Attached is the initial C-141 for the above referenced site that occurred on 9/5/2017. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

Bruce Baker
Apache Corporation
Environmental Technician
Northwest District

Email: larry.baker@apachecorp.com

Mobile: 432-631-6982