## NM OIL CONSERVATION ARTESIA DISTRICT

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

FEB **26** 2018

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 RECEIVED NMAC.

			Rele	ease Notific	atio	on and Co	orrective A	ction	l			
MAB180	58499	187		OPERATOR			✓ Initia	al Report		Final Repor		
		arathon Oil I	18	Contact Callie Karrigan								
		St, Carlsbad		Telephone No. 405-202-1028 (cell) 575-297-0956 (office)								
Facility Nat	me: Aid Sta	ate 2	Facility Type Oil and gas production facilities									
Surface: Ov	vner:		Mineral: C	r: API No. : 30-015-37068								
				LOCA	TIO	N OF RE	LEASE					
Unit Letter	Unit Letter Section Township Range Feet from the No 13 17S 28E 330 Soi						Feet from the 1650	East/West Line East		County Eddy		
	115	170	202	<u> </u>			e -104.126266	Dust		Ludy		<del></del>
						E OF REL						
Type of Rele				Volume of Release: 15 bbls Volume Recovery								
Source of Re	lease: transf	er pump						and Hour of Discovery				
Was Immedi	ate Notice C	liven?		unknown   02/23/2018 10:01 am   If YES, To Whom?						<u></u>		
· · us immedi	ate Notice C	× × × × × × × × × × × × × × × × × × ×	No 🔲 Not Re									
By Whom? (				Date and Hour 02/23/2018 3:32 pm								
Was a Water	course Reac		1 27	If YES, Volume Impacting the Watercourse.								
		pacted, Descr	No	N/A								
Operator arripump. Approcoupling on	ved onsite doximately 15 the transfer party at Affected a	bbls produce pump.	y rounds a ed water w  Action Tak	and observed stand as released into lii	ned ta	nk containmen	t. A roustabout cr	ew was	dispatched	immediate	ly to rep	oair the
to recover sta	anding fluids ure washed.	s. Affected ro	ck/gravel	in containment wi	ll be r	emoved. Absor	bent pads will be	used to	recover res	sidual fluids	s before	and after the
regulations a public health should their or the enviro	Il operators or the envir operations h nment. In a	are required tronment. The ave failed to a	o report and acceptant adequately occupance of the control of the	e is true and complete is true and complete of a C-141 report investigate and restance of a C-141 report investigate and restance of a C-141 report investigate.	elease ort by t emedia	notifications a he NMOCD mate contaminat	nd perform correct parked as "Final Rition that pose a thr	ctive act leport" or reat to g	ions for rel- loes not rel- round water	eases which ieve the ope r, surface w	n may en erator of ater, hu	ndanger f liability ıman health
Callia Va							OIL CON	SERV	ATION	DIVISI	<u> </u>	
Callie Karrigan Signature:									81			
						Approved by Environmental Specialist / Sugar Land						
Printed Nam	e: Callie Ka	rrigan								2. 2 de 2. 15 de 12		
Title: HES E	nvironmenta	al Professiona	Approval Date: 22118 Expiration Date: NIA									
E-mail Addr	ess: cnkarrig	gan@maratho	noil.com			Conditions o	f Approval:		, 1			
Date:							See (	14401	Med	Attache	1	11.27
	202-1028(	cell) 575-29°	7-0956 (d	office)			Vu V	ALL LAL		0	inly.	4637
Attach Addi												

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/26/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 282437 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  $\frac{2}{2}$  office in  $\frac{ARTESIA}{ARTESIA}$  on or before  $\frac{3/26/2018}{2018}$ . 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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