.

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505										
Santa Fe, NM 8/505										
OPERATOR Initial Report Final Report Name of Company Renson-Montin-Greer Drilling Corp Contact Zach Stradling										
Address	4900 Col	llege Blvd.,	Farmin	gton, NM 874	02 1	Telephone No. 505-325-8874				
Facility Name Homestead Ranch #2 Facility Type Producing Well										
Surface Owner Various Private Mineral Owner Various Private API No. 30-039-23586										
LOCATION OF RELEASE										
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County	
N	34	25N	02W	990'	So	uth	1850'	West	Rio Arriba, NM	
Latitude N36.349903 Longitude W107.040127 NAD83										
NATURE OF DELEASE										
Type of Release Produced Water							Volume of Release 20 bbls Volume Recovered 0 bbls			
Source of Re	lease Pro	oduced Wa	ater Tan	k		Date and Hour of Occurrence Date and Hour of Discovery 4/18/17 5p				
Was Immediate Notice Given?						Vanessa Fields				
By Whom? Zach Stradling						Date and Hour 4/19/17 3p				
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.				
						N/A				
N/A Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken *						
Leak at 3" x 2" reducer in production water line between separator and produced water tank (near produced water tank) due to corrosion. Pumping unit and well were immediately shut in.										
Describe Are	a Affected	and Cleanup	Action Tal	ken.*						
Affected s excavatio transporte excavatio	soils inside n was starte ed and dispo n of current	produced wate ed but put on l osed of at Env release is con	er tank sec hold due to rirotech Lai mplete. Pr	condary containme weather and muc ndfarm. Note that evious release wa	ent berm. ddy roads t further n as to soils	AES collecte s/location. Pl nitigation det only - vapor	ed soil samples wit an to resume exca ails for the previou wells extend to 50	th NMOCD witness avation on 5/2/17. (s release (2008) w) feet bgs - no grou	(Vanessa Fields) and Contaminated soils to be ill be finalized once indwater present.	
I hereby cert regulations a public health should their or the enviro federal, state	ify that the ll operators or the envi operations h nment. In a , or local la	information g are required ronment. The nave failed to addition, NMG ws and/or reg	iven above to report as acceptane adequately OCD accep ulations.	e is true and comp nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	olete to the release no ort by the remediate report de	ne best of my otifications a e NMOCD m e contaminat oes not reliev	knowledge and u nd perform correct narked as "Final R ion that pose a thr ve the operator of	nderstand that pur ctive actions for rel eport" does not rel eat to ground wate responsibility for c	suant to NMOCD rules and leases which may endanger lieve the operator of liability r, surface water, human health compliance with any other	
Signature:						OIL CONSERVATION DIVISION				
Printed Name: Zach Stradling						Approved by Environmental Specialist				
Title: Vice President						Approval Da	1te:5/17/20	SV Expiration	Date:	
E-mail Addr	ess: zstra	dling@bmg	drilling.c	om		Conditions o	f Approval:		Attached	
Date: 5/1	1/17		Phone	: 505-325-887	4	NVF	1711537	Pida	A	
Attach Additional Sheets If Necessary										

OIL CONS. DIV DIST. 3

MAY 0 4 2017

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Operator/Responsible Party,

The OCD has received the form C-141 you provided on **5/04/2017**_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number **nVF1711537866** 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 III office in 30 days_ on or before 6/04/2017. 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