State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

			Rele	ease Notific	atio	n and Co	orrectiv	ve Acti	on			Shilly your	
						OPERA	ΓOR		🛛 Initi	Initial Report 🗌 Final Report			
						Contact: Blake Dinwiddie							
						Telephone No. 713-757-5491 Facility Type Class II Injection well - SWD							
Facility Nat	me Christm	as SWD				Facility Typ	e Class II	Injection	well - SWD				
Surface Owner Millard Deck Testamentary Mineral Owner M Trust						Millard Deck Testamentary			API No. 30-025-10500				
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	1 5						Feet from	the Ea	ast/West Line County				
В	28 22S 37E 330					N 2310			E Lea				
		Latitude		2°22'9.94"N		_Longitud	e103°1	10'3.26"W					
				NAT	URE	OF RELI							
Type of Rele					ime Recovered: 5 bbls								
Source of Release: Skim Oil Tank						Date and H 09/12/2017		Date and Hour of Discovery 09/12/2017 1:00 pm					
Was Immedi	ate Notice Gi		Yes 🛛	No 🗌 Not Re	anired	If YES, To							
By Whom?						Data and U	0.117						
Was a Watercourse Reached?						Date and Hour If YES, Volume Impacting the Watercourse.							
□ Yes ⊠ No						Not applicable							
If a Watercourse was Impacted, Describe Fully.*						RECEIVED							
Not applicable						By Olivia Yu at 4:22 pm, Sep 14, 2017							
Describe Cau	ise of Problei	m and Reme	dial Action	n Taken.*		БуОШ	via tu	dl 4.2	<i>z piii,</i> 3	ер 14,	2017		
reported to N	MOCD in a	C-141 dated	05/08/201	ne tank battery to a 7). Key subcontra inlined secondary	actor di	scovered a sm	ill from ove all leak ne	erflow of a ar the base	gun barrel tar of the oil tank	ık (occurred (which had	05/05/201 been out	7 and of service)	
Describe Are	a Affected ar	nd Cleanup A	Action Tak	en.*									
containment. Additionally,	A vacuum tr secondary co	ruck was use ontainment v	d to removill be flus	d areas adjacent to ve the accumulate shed with freshwat by this spill to dete	d skim er and	oil outside of all wash water	the tank, as will be co	s well as en llected by v	nptied the rem vacuum truck	aining conte	ents of the	oil tank.	
regulations al public health should their o	l operators and or the enviro operations have nment. In add	re required to nment. The ve failed to a dition, NMO	o report an acceptanc dequately CD accep	is true and compl d/or file certain re e of a C-141 repor investigate and re tance of a C-141 r	lease n t by the mediat	otifications and NMOCD mage contamination	ad perform arked as "F on that pose the operat	corrective a inal Report e a threat to for of respo	actions for rel does not rel ground water nsibility for c	eases which ieve the oper r, surface wa ompliance w	may enda rator of lia iter, huma vith any ot	nger ibility n health	
Signature: Black munitive						OIL CONSERVATION DIVISION							
						Approved by District Supervisor:							
Title: Environmental Director						Approval Date: 9/14/2017 Expiration Date:							
E-mail Address: bdinwiddie@keyenergy.com						Conditions of Approval:				Attached			
Date: 09/14/2017 Phone: 713-757-5491						see attached directive				- muonou			
Attach Addit		s If Necessa			-	-					- 118 N - 11 - 11		
						1RP-480	7)V1725	759088		(4705	750/6/	

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pOY1725759464

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _9/14/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4807_ 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 _1_ office in __Hobbs____ on or before _10/14/2017_. 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