Key Energy Services

1301 McKinney St, Suite 1800 Houston, TX 77010 713.651.4300

March 23, 2018

State of New Mexico

**Energy Minerals and Natural Resources** 

**Oil Conservation Division** 

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Re: Release Notification and Corrective Action Form C-141

Key Energy Services, Inc.

To Whom It May Concern,

Enclosed you will find the Initial Form C-141 for a release, which took place at Key Energy Service's Christmas SWD on March 23, 2018, in Lea County, New Mexico.

If you have any questions or concerns, please feel free to contact me at rgraham01@keyenergy.com or 713-651-4437.

Sincerely,

Rick Graham Environmental Director



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

## **Release Notification and Corrective Action**

		OPERATOR	$\boxtimes$	Initial Report		Final Report
Name of Company Key Energy Services		Contact Joe Gutierrez				1 mar report
Address 1301 McKinney St. Ste 1800. Housto	n TX 77010	Telephone No. 903-503-3858				
Facility Name Christmas SWD		Facility Type Class II Injection	well -	SWD		
Surface Owner Millard Deck Testamentary Trust	Mineral Owner Millard Deck Testamentary		A	PI No. 30-025-1	0500	
	LOCATI	ON OF RELEASE				

## LOCATION OF RELEASE

Unit Letter B	Section 28	Township 22S	Range 37E	Feet from the 330	North/South Line N	Feet from the 2310	East/West Line E	County Lea	1
Latitude 32		32.3694	Longitud	-103.1676			-		

## NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release 60 BBLS	Volume Recovered 60 BBLS				
Source of Release: Oil Tank	Date and Hour of Occurrence	Date and Hour of Discovery				
	03/21/18 8:00 am	03/21/18 8:00 am				
Was Immediate Notice Given?	If YES, To Whom?					
Yes 🗌 No 🗌 Not Required	Olivia Yu					
By Whom? Rick Graham	Date and Hour 03/22/2018 4:30 pm	1				
Was a Watercourse Reached?	If YES, Volume Impacting the Wate					
🗌 Yes 🛛 No						
If a Watercourse was Impacted, Describe Fully.* N/A	ALCEIVED					
	By Olivia Yu	at 8:35 am, Apr 09, 2018				
Describe Cause of Problem and Remedial Action Taken.*		, , , , , , , , , , , , , , , , , , , ,				
A hole developed in the side oil tank, approximately 3/4 from the top, allow	ing oil to be released.					
Describe Area Affected and Cleanup Action Taken.*						
The spill was 100% contained inside the berm. The spill was vacuumed up	immediately with Key Vac trucks.					
	аналичина сомаличина то признатания селота реконски воскорудания. К					
I handly got if that the information of the line is the second seco						
I hereby certify that the information given above is true and complete to the	e best of my knowledge and understan	id that pursuant to NMOCD rules and				
regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the	NMOCD marked as "Final Banart" d	ons for releases which may endanger				
should their operations have failed to adequately investigate and remediate	contamination that nose a threat to gre	ound water surface water human has the				
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other						
federal, state, or local laws and/or regulations.		the compliance with any other				
1	OIL CONSERV	ATION DIVISION				
Signature: Tull Mut.		M				
Printed Name: Rick Graham	approved by District Supervisor:					
Finited Ivanie. Rick Oranam		U				
Title: Environmental Director	Approval Date: 4/9/2018	indiana Data				
		Expiration Date:				
E-mail Address: rgraham01@keyenergy.com	onditions of Approval:					
		Attached 🔽				
	see attached directive					
Attach Additional Sheets If Necessary						
	1RP-5015	00004070				

pOY1809931605

nOY1809931276

Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_4/6/2018\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-5015\_ 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 \_5/9/2018\_. 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 OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us