						N		CON 34 Fesia - M	CHVATI	ION	
<u>Vistrict I</u> 625 N. French Dr., Hobbs, NM 88240 <u>Vistrict II</u> 11 S. First St., Artesia, NM 88210					New Mexi and Natura	ico I Resources	D	EC 05	2017	Form C Revised April 3	
District III			Oil C	Conserv	vation Div	vision	Subn	nit I Copy	to approp	riate District Of	fice in
District IV 122				1220 South St. Francis Dr.			RECEIVED ance with 19.15.29 NMAC.				
220 S. St. Francis Dr., Sant	220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe					05					
			ease Notific	ation	and Co	orrective A	ction				
NAB1734-2					OPERA'			🛛 Initia	al Report	🗌 Final	Report
Name of Company: R Address: 1301 McKir					Contact: Joh Telephone N	<u>in Turner</u> No.: 903-643-37	/91		· <u> </u>	<u> </u>	
Facility Name : Amoo			e: Oil and Gas		on Facili	ty					
Surface Owner: BLM Private, Mineral Owner: 1					BLM			API No	. 30-015-	22975	
		•	LOCA	TION	NOF REI	LEASE					
Unit Letter Section	Township	Range	Feet from the		South Line	Feet from the		est Line	County		
1 11	235	28E	1980	South		990	East		Eddy		
		Latit	ude <u>32.31834</u>				IAD 83				
Type of Release: Oil	<u></u>			UKE	OF REL	Release: ~8 bbls	<u> </u>	Volume R	Recovered:	~6 bbls	
Source of Release: Oil S	Storage Tank				Date and H	lour of Occurrence			Hour of D	iscovery	
Was Immediate Notice	Given?				If YES, To	our unknown Whom?		11/21/17,	HUUNIS		
		Yes 🗌	No 🛛 Not R	equired	NA						
By Whom? NA					Date and Hour: NA						
	.1. 10	Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.				
	npacted, Descr	ibe Fully.	*	ment.		olume Impacting	the Wate	rcourse.			
Was a Watercourse Realling a Watercourse was Im	Inpacted, Descr contained inside lem and Reme ped small pinha	ibe Fully. c carthen s dial Action oles about	* secondary contain n Taken.* 11 feet high on ta	ank and t	If YES, Vo NA				und inside	the secondary	
Was a Watercourse Rea If a Watercourse was Im NA – The release was co Describe Cause of Probl Oil storage tank develop	Inpacted, Descr contained inside lem and Reme ped small pinhe were removed and Cleanup / and Cleanup / and by earthen	ibe Fully. c earthen s dial Action oles about I from the Action Tak secondary	* secondary contain n Taken.* 11 feet high on ta tank and pinholes ken.*	ank and r s were re ne soil an	If YES, Vo NA released appr paired. d pca gravel	oximately 8 bbls inside the firewal	of oil ont	to the grou	und the ta	nks. Vacuum tru	ick Jed to
Was a Watercourse Rea If a Watercourse was Im NA – The release was co Describe Cause of Probl Oil storage tank develop containment. The fluids Describe Area Affected The release was contain removed 6 bbls of oil fro	Inpacted, Descr contained inside lem and Reme ped small pinha were removed and Cleanup / ied by earthen om the firewal information gi s are required to ironment. The have failed to a addition, NMC	ibe Fully. c earthen s dial Action oles about l from the Action Tal secondary l on the da iven above o report ar acceptance adequately OCD accept	* secondary contain n Taken.* 11 feet high on ta tank and pinholes ken.* containment. Th ay of occurrence. e is true and comp nd/or file certain cc of a C-141 rep y investigate and t	ank and n s were re soil an Remove plete to th release no ort by the remediate	If YES, Vo NA released appr paired. d pea gravel ed approxima ne best of my otifications a e NMOCD m e contaminati	oximately 8 bbls inside the firewal tely 18 yds of vis knowledge and t nd perform corre- tarked as "Final R ion that pose a thr	of oil ont I was im ually imp understan ctive acti Report" do reat to gro	pacted aro pacted soil d that purs ons for rel oes not rel ound wate	und the ta from the suant to N eases which ieve the op r, surface	nks. Vacuum tru firewall and hau MOCD rules an ch may endange perator of liabili water, human ho	led to d r ty calth
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/05/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>2RP + 45/3</u> 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 1/05/18. 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:	John Turner <john.turner@rockcliffenergy.com></john.turner@rockcliffenergy.com>
Sent:	Tuesday, December 5, 2017 1:07 PM
То:	Weaver, Crystal, EMNRD
Cc:	Mike Martin; cmesser@blm.gov
Subject:	Amoco Federal 11 #1 (API NO 30-015-22975) Form C-141
Attachments:	Amoco_Federal_11_1_C-141_12-5-17.pdf

Please find attached Form C-141, Release Notification and Corrective Action, for the release that occurred at Rockcliff Operating New Mexico LLC's Amoco Federal 11 #1 Facility in Eddy County on November 21, 2017.

If you have any questions or concerns please do not hesitate to contact me.

John Turner Rockcliff Energy, LLC Sr. Environmental Specialist 342 Johnny Clark Rd Longview, TX 75603 O: (903) 643-3791 C: (903) 261-4673 jturner@rockcliffenergy.com

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