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H.S. First St.	<u>hstrict)</u> 625 N. French Dr., Hobbs, NM 88240 <u>histrict II</u> 11 S. First N., Artesca, NM 88210			S Energy M	tate of N linerals a	New Mexi and Natura	ico l Resources	FEB 05 2	018	Fo Revised ?	orm C+141 April 3, 2017
er 25 e 085 (M. 201856), 201 662 (M. <u>istrict 111</u> <u>300 Rio Brazos Road, Aztec, NM 87410 <u>istrict IV</u> 220 S. St. Francis Dr. Santa Fe. NM 87505</u>			Oil 122	Conserv 0 South	ation Division St. Francis Dr.		Submit 1 Copy to appro RECEIVEEcordanc		ropriate District Office in ce with 19,15.29 NMAC.		
			Rela	ase Notifi	anta Fe	. NM 875	05 vrective A	ction			
MARI	21275	2777	1.010	2	11115	OPFRAT	FOR		vitial Renc	m M	inal Report
Name of Co	ompany: R	ockcliff Ope	rating Ne	ew Mexico LL	$C \qquad [0]$	Contact: Jol	in Turner	<u> </u>			mur report
Address: 1301 McKinney St, Suite 1300, Houston, TX 77010						Telephone No.: 903-643-3791					
raciny nai	me : SCB I	njection rac				acinty Typ	e: SWD (water	flood) Facility	t 9)	·····	
Surface Owner: Jackie & Johnny Reid Mineral Owner:					Owner:			API Con 355 Ons	API No. 30-015-22404 (Donaldson Com A Well) Onsite. 30-015- 35512 (SCB 23 #19 Injection Well) Onsite		
				LOC	ATION	OF RE	LEASE				
Linit Letter F	Section 23	Township 238	Range 28E	Feet from the 1930	North/	South Line	Feet from the 2303	East/West Li West	ne Couw Eddy	ty.	
		Lati	tude <u>3:</u>	2.2928490757 NA	674_Lo TURE	ngitude	104.059085402 EASE	287 NAD 8	33	109	bbls
Type of Rela	case: Produc	ed Saltwater				Volume of	Release: ~110 b	bls Volu	ne Recover	red: - 110 bbl	= pet
Source of Re	elease: Prod	uced water ste	wage tank			Date and 1	lour of Occurren 900 hrs	ce: Date: 1/22/	and Hour o 18–1127brs	f Discovery	ema
Was Immediate Notice Given?						If YES, To Whom? Mike Bratcher					
By Whom? John Turner						Date and Hour: 1/23/18, 1120hrs					· 315
Wenne Winter		1.10				Date and I	Iour: 1/23/18, 11	20hrs			i Ur
Was a Water	rcourse Read	ched?] Yes 🛛] No		Date and I If YES, V NA	lour: 1/23/18, 11 plume Impacting	20hrs the Watercours	e.		<u>.</u>
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Attach Additional Sheets If Necessary

NM OIL CONSERVATION

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/5/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2000 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 3/5/18. 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: Sent: To: Cc: Subject: Weaver, Crystal, EMNRD Monday, February 5, 2018 3:41 PM John Turner; Bratcher, Mike, EMNRD Mike Martin; Jamie Robinson RE: SCB Injection Facility Form C-141

Hello all,

This initial C-141 form looks good. However, I will have to modify the bbls recovered cause even with a lined secondary containment at this facility because the liner is covered with fill material on top of the liner, it is unlikely that 100% of the fluid will be recovered by a vac truck. I am going to call this 110 bbls released, with 109 bbls recovered. Let me know if you disagree with this call.

For this release as long as no fluids made it out of the containment you will need to do this procedure:

When an Initial C-141 is submitted for a release that is stated to be fully contained within secondary lined containment, OCD is asking that operators provide a written statement within the Final C-141 (attesting to the integrity of the liner and stating that you yourself or another member of your organization ((that has been informed/educated on what to look for)) have inspected the liner, if any breaches or holes are discovered in the liner than a full delineation/remediation of that area will be required. Also if the containment involves any fill material OCD needs a statement on the Final C-141 form saying that all fill material was removed and replaced).

Aside from that request, OCD is also requesting for all operators to include two or 3 photos in the body of the email they send to us showing the condition of the battery before and after it was remediated/inspected. So what I mean by that is take the photos and drop them straight into the body of the email (just paste it right before where you have your signature block with your name and your title description). We want to ask all operators to include those since we have asked some of them to do so. So please if you could just drop us a few photos for this location, not as attachments but straight into the email, that would be awesome. One shot of the location sign and then like I said 2 or so more to represent how the battery/lined containment area looks pre and post.

Thanks,

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210 Office: 575-748-1283 ext. 101 Cell: 575-840-5963 Fax: 575-748-9720

Weaver, Crystal, EMNRD

From:	John Turner <john.turner@rockcliffenergy.com></john.turner@rockcliffenergy.com>
Sent:	Monday, February 5, 2018 10:18 AM
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc:	Mike Martin; Jamie Robinson
Subject:	SCB Injection Facility Form C-141
Attachments:	SCB_Injection_Facility_NMOCD_C-141_2-05-18.pdf

Please find attached Form C-141, Release Notification and Corrective Action, for the release that occurred at Rockcliff Operating New Mexico LLC's SCB Injection Facility in Eddy County on January 22, 2018.

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

Thank you,

John Turner Rockcliff Energy, LLC

Sr. Environmental Specialist 342 Johnny Clark Rd Longview, TX 75603 O: (903) 475-1865 C: (903) 261-4673 jturner@rockcliffenergy.com