

Gandy Corporation Nuckols Battery 24 #1

The site has not been fully delineated. Heavy oil staining just beneath surface on the west and south sides of the battery. Site must be fully delineated and work plan addressing any contamination must be submitted no later than 9/12/2016

Closure

Section 24, Township 7S, Range 31E Chaves County, New Mexico

30-005-20736

August 04, 2016



Prepared for:

Cross Border Resources 14282 Gillis Rd., Farmers Branch, TX 14282

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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I. Company Contacts

Representative	Company	Telephone	E-mail
Ross Pearson	Red Mountain Resources	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Red Mountain Resources to assess a spill area on the Nuckols Battery, concerning a One Hundred and Sixty (160) bbl. release comprised of oil and produced water. This site is situated in Chaves County, Section 24, Township 7S, and Range 31E.

According to the C-141: Vandals opened the load line valves on the oil and water tanks allowing all of the contained fluids to impact ground surface. The spill area was mapped, using a Trimble Juno 3B. Whereby, the total area of impact was estimated to be 4,441 sq. ft. The NMOCD and BLM respectively, were notified on March 20, 2016, and the C-141 filed and stamped by the NMOCD on March 24, 2016 assigning this event number **1RP-4222** (Appendix A).

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 238' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

IV. Work Performed

On April 11, 2016 SESI personnel together with equipment and personnel from Gandy Corporation were onsite to photograph, assess and map the spill area. The backhoe removed all heavy hydro carbon staining. SESI personnel were present to conduct simultaneous field testing to perform confirmation sampling. Field tests were conducted of the representative soil samples. Approximately 35 yds. Of impacted soil were removed and disposed of at an NMOCD approved facility. The results of field tests are presented in the table below.

Soil Sample Results: Field Tests 04-11-16									
SAMPLE ID	TPH	CHLORIDES							
TT-1 @ 6"	06 ppm	156 ppm							
TT-1 @ 1.5'	No test	<108 ppm							
TT-2 @ 6"	06 ppm	<108 ppm							
TT-2 @ 1.5'	No test	<108 ppm							
On June 28, 2016 SE	SI personnel met with Represen	tative Jamie Keyes of the NMOCD, in							

order to ve

Based on the request of Mr. Keyes of the NMOCD, SESI personnel returned to the site to install an auger hole to a depth of 1' bgs., slightly to the Northwest of the impacted area (Figure 2). A representative soil sample was taken from the surface and at a depth of 1' bgs., properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM

by chain of custody, and analyzed for Chloride (Method SM4500CI-B). The results are recapped in the following table:

Lab Confirmation Sample Date 07-01-16						
SAMPLE ID	CHLORIDES					
AH-1 Surface	<16.0 mg/kg					
AH-1 1'	<16.0 mg/kg					

VII. **Request for Closure**

Based on the results of the confirmation sampling, Red Mountain Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

VIII. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A - C-141

Appendix B – Groundwater Appendix C – Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map



Figure 2 Site Plan



Appendix A Final C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action												
												Final Repor
		Cross Border Rd., Farmer	Contact: Ross Pearson									
Facility Nan			Telephone No. 469-995-0425 Facility Type: Tank Battery									
Surface Owi	ner Jake	Maureen Ho	wards	Mineral C)wner	r: Nuckols et al API No. 30-005-20736						
Bullace OW	ner. suice,	ividareen 110	waras	•					7111110	. 30 003 2	0730	
Unit Letter	Section	Township	Range	Feet from the		OF REI	Feet from the	County				
	~	•	C			Journ Line			est Line			
M	24	7 S	31E	660'	South		660"	West		Chaves		
		Latitu	de33.6	868973		Longitude	e103.733398	4		_		
				NAT	URE	OF RELI						
Type of Relea		l Produced Wa	ater				Release: 160 Bbl			Recovered: Nour of Dis		,
Source of Ker	lease. Load	Lines				3/18/2016,				6 10:00 AM	-	
Was Immedia	te Notice C		Vos. [No Not Re	anirad	If YES, To	Whom? quez, Chaves Cou	entry Char	:ff			
			168	J NO 🔲 NOUNG	equired		es, NMOCD, Harl					
		n, Ross Pearso	on				Iour: 3/19/2016, 1			and 3/20/20	16, 2:24	4 PM
Was a Watero	course Reac		Yes 🗵	l No		If YES, Vo	olume Impacting to	he Water	course.			
If a Watercon	rea was Im	pacted, Descr	-									
ii a watereou	irse was iii	pacicu, Desci	ioc runy.									
		em and Remed		n Taken.* nd water tanks allo	owing en	itire fluid to b	ne drained onto lo	cation N	Vor sure o	f the exact t	ime of	release
				sheriff first to est				cution. 1	voi sure o	r the exact t	nne or	rerease.
		and Cleanup A		ken.* n the oil load lines	s impacti	ng an area of	annroximately 4	441 sa f	t The pri	marv area in	nnacteo	d remained
				ordance with NMC				, TTI 5 q. I	t. The prin	mary area m	пристес	a remained
				is true and comp nd/or file certain r								
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final Ro	eport" do	es not reli	ieve the ope	rator of	f liability
				investigate and restance of a C-141								
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.												
							OIL CONS	SERV.	ATION	DIVISIO	<u> N</u>	
Signature:												
Printed Name: Approved by Environmental Specialist:												
Title:					I	Approval Dat	e:	E	xpiration	Date:		
E-mail Addre	ess:				(Conditions of	Approval:			Attached		
Data			Dhono								_	

^{*} Attach Additional Sheets If Necessary

Appendix B Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD										
POD Number	Sub- Code basin County		Q Q 6 4		Tws	Rng	>	(Y	•	-	Water Column
RA 11245 POD1	СН	3 3	3 1	20	07S	31E	610806	3728777* 🎒	220	180	40
RA 11251 POD1	СН	1 2	2 4	10	07S	31E	615240	3731841* 🎒	210	190	20
RA 11252 POD1	CH	2 4	1 2	10	07S	31E	615436	3732243* 🎒	210		
RA 11255 POD1	CH	2 4	1 4	04	07S	31E	613805	3733024* 🎒	450	350	100
RA 11256 POD1	CH	2 4	1 4	04	07S	31E	613805	3733024* 🎒	450	350	100
RA 11260 POD1	СН	1 2	2 3	26	07S	31E	616038	3727739 🌍	158	120	38

Average Depth to Water: 238 feet

Minimum Depth: 120 feet

Maximum Depth: 350 feet

Record Count: 6

PLSS Search:

Township: 07S Range: 31E

Appendix C Analytical Results



July 12, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: GAN-16-002

Enclosed are the results of analyses for samples received by the laboratory on 07/06/16 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2016 Sampling Date: 07/01/2016

Reported: 07/12/2016 Sampling Type: Soil

Project Name: GAN-16-002 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-1 SURFACE (H601505-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride <16.0 16.0 07/07/2016 ND 416 104 400 0.00

Sample ID: AH-1 1' (H601505-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2016	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

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Appendix D Site Photos



Sign marking location



Release Point Area



Pasture Impact



Release Point



Impacted area West side of location



Fluid run Southwest pasture area



Spill run impacting pasture



Impacted area west of location



Spill run looking south



Spill traverse west onto lease road



Spill Run North side



Surface Removal of north side



Standing fluid west of pad







Impact inside bermed area



Removal of surface impact



Surface removal



Test Trench



Surface removal at release point



Stockpiled soil



Test Trench

