1R-425-103

REPORTS

DATE:

10-23-13

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

7912 COT 25 P 1: 28

CERTIFIED MAIL
RETURN RECEIPT NO. 7007 2560 0003 0323 8974

October 23rd, 2013

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

> RE: CAP Report and Termination Request Rice Operating Company – Vacuum SWD System Vacuum C-36 EOL (1R425-103): UL/C sec. 36 T17S R34E

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the abandoned Vacuum Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the Vacuum SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 0.8 miles southwest of Buckeye, New Mexico in Unit C, Section 36, T17S, R34E as shown on the Site Location Map and Geographical Location Map (Figure 1 and Figure 2). NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 107 +/- feet.

In 2010, ROC initiated work on the former Vacuum C-36 EOL junction box. A backhoe was used to collect soil samples at regular intervals creating a 5 x 3 x 4-ft deep excavation. The backhoe was unable to excavate the site deeper than 4 ft below ground surface (bgs) due to extremely compacted subsoil material. The excavated soil was properly disposed of at a NMOCD approved facility, and clean, imported soil was used to backfill the excavation to ground surface. On October 11th, 2010, the site was seeded with a blend of native vegetation.

To further investigate the depth of chloride contamination at the site, a soil bore was initiated on July 25th, 2011 at the source of the former junction box. Soil samples were field tested for chlorides and hydrocarbons to a depth of 12 ft bgs. Laboratory analysis of the 12 ft sample resulted in a chloride concentration of 1,880 mg/kg and a gasoline range organics (GRO) and diesel range organics (DRO) concentration of non-detect. The bore hole was plugged in total with bentonite to the ground surface.

NMOCD was notified of potential groundwater impact on April 10th, 2012, and a junction box disclosure report was submitted to NMOCD with all the 2011 junction box closures and disclosures.

On February 20th, 2013, ROC submitted an Investigation and Characterization Plan (ICP) to NMOCD which was approved on March 4th, 2013. As part of the ICP, RECS personnel were on site April 8th and 9th, 2013 to install soil bores. A total of five soil bores (SB-2 through SB-6) were advanced and four surface samples were taken at this site. As the bores were advanced, samples were taken at regular intervals and field tested for chlorides and hydrocarbons. Representative samples from each bore were taken to a commercial laboratory for analysis of chlorides and TPH. Laboratory analysis showed that the chloride levels in each bore dropped to below 250 mg/kg between 25 ft and 35 ft and GRO and DRO values were non-detect.

Two surface samples were taken outside SB-3, west, and two outside of SB-4, south. These samples were field tested for chlorides and hydrocarbons and returned high chloride readings and very low hydrocarbon readings.

A Corrective Action Plan (CAP) was submitted to NMOCD on May 31st, 2013 and approved on July 24th, 2013. The site surrounds the base of an old heater-treater which indicates the presence of an old tank battery at the site. A series of historical photos were created of the site and from the photos, particularly the 1978 historical photo, it is evident that the C-36 EOL junction box sat inside a tank battery. There are also numerous non-ROC steel lines located south of the site, and a non-ROC poly line located west of the site. This suggests that the elevated chloride concentrations observed in the surface samples were contributed from past operations of the non-ROC facility and not the former junction box.

From the analysis of the soil bore data, residual chlorides and TPH at the site have not affected groundwater. In order to protect groundwater from residual soil chlorides, RECS recommended that ROC install a 20-mil reinforced poly liner at the site with dimensions of 30 ft x 39 ft at a depth of 3.5 ft bgs (Figure 3). The liner will inhibit the downward migration of residual constituents to groundwater. The junction box investigation, conducted in 2010, showed an extremely hard rock layer to be located at approximately 4 ft bgs. Lithology description of the soil samples collected while drilling soil bores also showed a caliche/sandstone layer beginning at a depth of approximately 4 ft bgs. The soils placed above the liner would have a laboratory chloride reading no greater than 500 mg/kg and a field PID measurement below 100 ppm. Excavated soil would be evaluated for use as backfill and any soil requiring disposal would be properly disposed of at a NMOCD approved facility. The soils over and surrounding the site would then be prepared with soil amendments as necessary and seeded with a native vegetative mix. Vegetation above the liner will also provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater.

Corrective Action Plan Report

Beginning on August 27th, 2013, REC personnel were on site to begin excavating for liner installation. The site was excavated to 30 ft x 39 ft to a depth of 3 to 3.5 ft bgs. The site could not be excavated any deeper, due the caliche/sandstone layer. As the site was excavated, the excavated soil was screened to remove the rock. The rock was stored on site to use as backfill and 200 yards of residual, excavated soil was taken to a NMOCD approved facility for disposal. 192 yards of soil were imported to the site from two sources to use as backfill. Soil samples from each source were field tested for hydrocarbons and returned readings of 2.4 ppm and 1.5 ppm. The samples were then taken to a commercial laboratory for analysis and returned chloride values of non-detect.

The base of the excavation was padded with 6 inches of blow sand to protect the liner from punctures. A 20-mil reinforced poly liner was installed and properly seated into the base of the excavation and was padded with an additional 6 inches of blow sand. The screened rock was then backfilled into the excavation and the remaining imported soil was used to backfill the site to ground surface. The site was contoured to the surrounding location and a silt net fence was placed around the excavation to prevent erosion and maintain seed integrity. On September 10th, 2013, soil amendments were added to the site and the site was seeded with a blend of native vegetation. Documentation of these activities can be found in Appendix A.

Since the CAP actions have been completed, ROC respectfully requests 'remediation termination' or similar site closure status for the site. ROC acknowledges they have met the requirements of 19.15.29 NMAC, and no further action is required.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist

Jew.

RECS

(575) 441-0431

Attachments:

Figure 1 – Site Location Map

Figure 2 – Geographical Location Map

Figure 3 – NMOCD Approved Liner

Appendix A – CAP Activities Documentation



Site Location Map

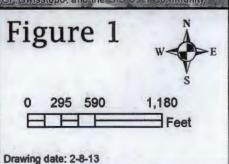




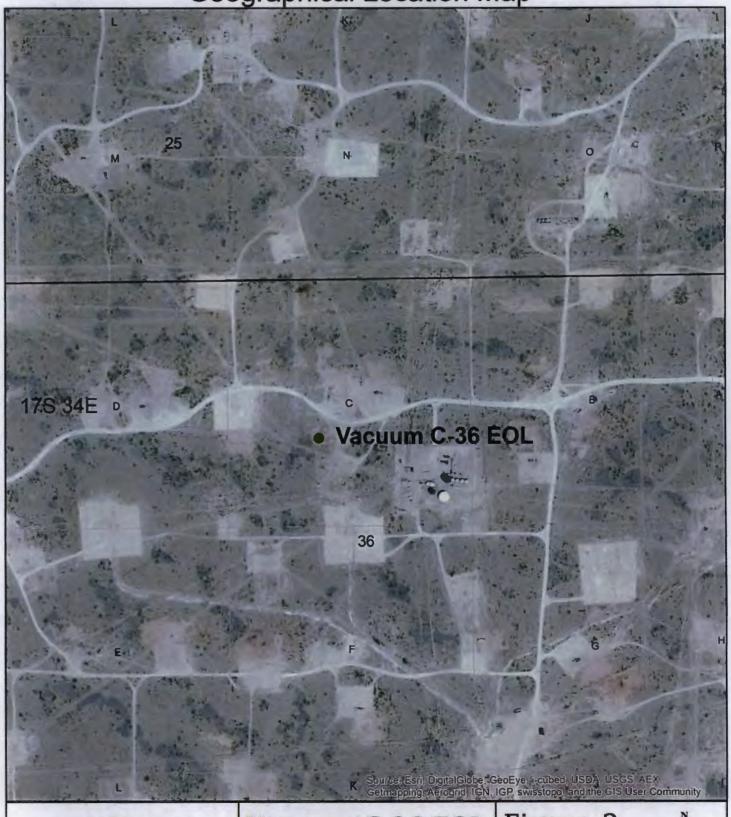
Vacuum C-36 EOL

Legals: UL/C, Section 36, T17S, R34E Lea County, NM

NMOCD Case #: 1R425-103



Geographical Location Map





Vacuum C-36 EOL

Legals: UL/C, Section 36, T17S, R34E Lea County, NM

NMOCD Case #: 1R425-103

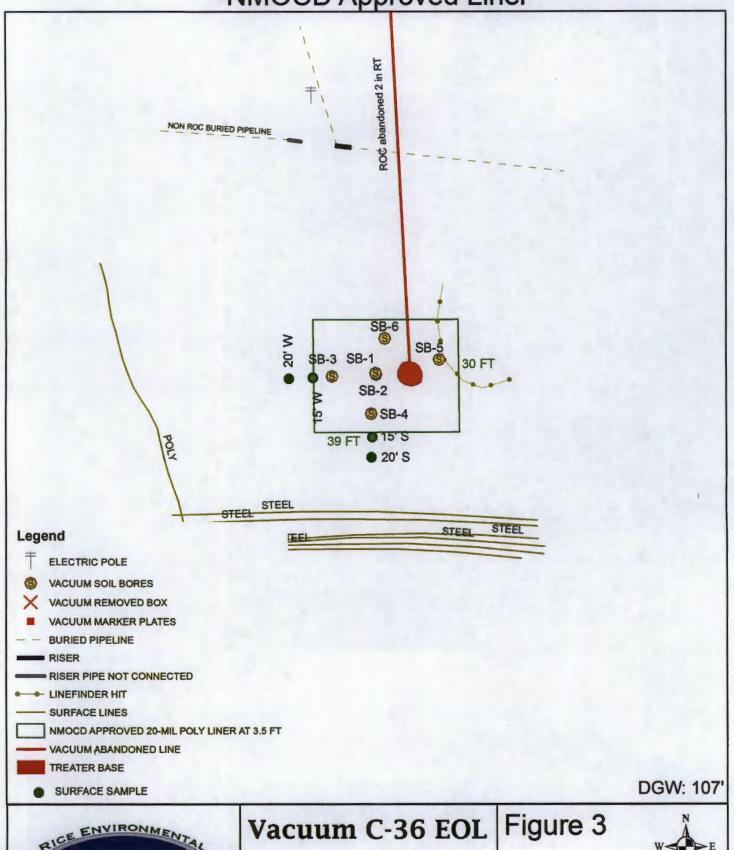
Figure 2



0 180 360 720

Drawing date: 10-8-13

NMOCD Approved Liner





Legals: UL/C, Section 36, T17S, R34E Lea County, NM

NMOCD Case #: 1R425-103



20 0 5 10

Drawing date: 10/8/13 Drawn by: L. Weinheimer

Appendix A

CAP Activities Documentation

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

	PID METER CAL	LIBRATION	& FIELD REPORT	FORM	
CK. MODEL NO.	MODEL: PGM 7300 MODEL: PGM 7300 MODEL: PGM 7320 MODEL: PGM 7300	SERIAL SERIAL	NO: 590-000508 NO: 590-000504 NO: 592-903318 NO: 590-! 902431		
	GAS COMPOSITION:	ISOBUTYL	ENE 100PPM / AIR:	BALANCE	
LOT# IAM 248-100-6		- 1	EXP: 7/1/2015		
	ME	TER READ	ING:100 PPM		
ACCURACY : +/-2%					
		COI	MPANY		
)	RICE		
SI	TE	UNIT	SECTION	TOWN SHIP	RANGE
-					1

SITE	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum C-36 EOL	C	36	17S	34E

SAMPLE ID	PID	SAMPLE ID	PID
Pond Bottom	2.4		
		-	
Annual Control of the			

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURES arong Jeers

DATE:9-4-13

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

ACCURACY: +/-29			
	MET	TER READING:100 PPM	
LOT# IAM 248-100-	6	EXP: 7/1/2015	
	GAS COMPOSITION:	ISOBUTYLENE 100PPM / AIR: BALANCE	
LX.	MODEL: PGM 7300	SERIAL NO: 590-! 902431	
NO.	MODEL: PGM 7320	SERIAL NO: 592-903318	
MODEL	MODEL: PGM 7300	SERIAL NO: 590-000504	
CK.	MODEL: PGM 7300	SERIAL NO: 590-000508	

1		IPANI	
	R	ICE	
			A. Maraka

SITE	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum C-36 EOL	C	36	17\$	34E

SAMPLE ID	PID	SAMPLE ID	PID
Blow Sand	1.5		
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE Javanys Leans

DATE:9-3-13



September 10, 2013

KYLE NORMAN

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM C-36 EOL (17/34)

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/qa/lab accredited 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)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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:

Rice Operating Company **KYLE NORMAN** 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

09/04/2013

Sampling Date:

09/04/2013

Reported:

09/10/2013

Sampling Type:

Soil

Project Name:

VACUUM C-36 EOL (17/34)

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: POND BOTTOM (H302140-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celey & Kune



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. Kune



Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Kyle Norman	P.O. #:	1											
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City: State: \(\mathcal{M} \) Zip:	Attn:							Ì	'	1.	}		-
Phone #: Fax #:	Address:				<u> </u>			1	1		}		
Project #: Project Owner:	City:							1					
Project Name:	State: Zip:]			,								
Project Location: Vacuum C-36e EDL	Phone #:				[. 200	1				
Sampler Name: KARANJA LEWIS	Fax #:]		1]	ļ.							
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P.O. #



September 06, 2013

KYLE NORMAN

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM C-36 EOL (17/34)

Enclosed are the results of analyses for samples received by the laboratory on 09/06/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

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

Accreditation applies to public drinking water matrices.

Celeg & Keene

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:

Rice Operating Company KYLE NORMAN 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

09/06/2013

Sampling Date:

09/05/2013

Reported:

09/06/2013

Sampling Type:

Soil

Project Name:

VACUUM C-36 EOL (17/34)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: BLOW SAND (H302152-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	3.77	

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Celey D. Kune



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 SM4500CI-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

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Project Name:								Stat	te:		Zip:							1							
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Sampler Name:	KARAWTA LEWIS							Fax	#:												ľ				
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PO Box 2498 Hobbs, NM 88241 Phone: (575) 393-2967 Fax: (575) 393-0293

VEGETATION FORM

Ole Ver						
Site name: Vac	cuum C-36 EOL					
U/L C	Section 36	Township 178	Range 34E	County	Latitude N 32 47' 47.379"	Longitude W 103 31 0.197"
Contact Name: Hac	k Conder		-			•
Email: hcc	onder@riceswd.com					
Site size: 53'x	:64'	sq	uare feet: 3,392			
2. Soils	*Do no	t rip caliche subsoils; calic	he rocks brought to	the surface by ri	pping shall be removed.	
Salvaged from site	Bioremediated	% Imported	Blende		Depth (in)	
Texture:	Sandy	Describe so	oil & subsoil:	ond Bottom bel	ow and Pond Bottom/Blow Sa	and blend on top
Soil prep methods:	Rip	Depth (in)		Disc X	Depth (in)	Rellerpack
Date completed:	9/5/2013					
Type:					ribe: 3 bags of Restore Nhanc	
i ns/acre:				seil,	I bag of manure, 10 bags of P	
4. Seeding	*Attach seed bug tags to	this form. Seed bag tags sho	all contain the site n	ame and S-T-R.		
4. Seeding Custom Seed Mix				ame and S-T-R.		etė Moss
4. Seeding Custom Seed Mix	Prescribed Mix h Broadcast Seeder		Name: 5 lbs.side oa	ame and S-T-R.	ma, 5lbs. Sudan Date:	etė Moss
4. Seeding Custom Seed Mix Broadcast Pus Soil conditions during	Prescribed Mix h Broadcast Seeder g seed: Dry	Seed Mix	Name: 5 lbs.side oa Method	ame and S-T-R.	ma, 5lbs. Sudan Date:	etė Moss
	Prescribed Mix h Broadcast Seeder g seed: Dry The seed and amen	Sced Mix Damp Wet dracets were raked into the	Name: 5 lbs.side oa Method soil	ame and S-T-R. Is 5 lbs. blue gra With Broad	ma, 5lbs. Sudan Date:	9/10/2013

Vacuum C-36 EOL (1R425-103) Unit Letter C, Section 36, T175, R34E



Site prior to excavation, facing east 6/25/2013



Excavating, facing south

8/28/2013



Exporting soil, facing east

8/30/2013



Padding the completed excavation, facing southeast

9/3/2013



Installing liner, facing south

9/3/2013



Importing, facing west

9/3/2013

Vacuum C-36 EOL (1R425-103) Unit Letter C, Section 36, T175, R34E



Padding above the liner, facing southwest 9/3/2013



Backfilling excavation, facing west 9/4/2013



Spreading amendments, facing northwest 9/10/2013



Spreading seed, facing northwest 9/10/2013



Raking seed, facing west





Site complete, facing east

9/10/2013