### 1R-425-66

## 2013 Annual Report

# DATE March 10, 2014

From: <u>Laura Flores</u>

To: Lowe, Leonard, EMNRD; VonGonten, Glenn, EMNRD

Cc: "Hack Conder"; "Katie Jones"

Subject: ROC - Vacuum L-26 vent (1R425-66) 2013 Annual Groundwater Report

**Date:** Monday, March 10, 2014 1:37:59 PM

Attachments: ROC - Vacuum L-26 vent (1R425-66) 2013 Annual Groundwater Report.pdf

Mr. Lowe,

Attached is the 2013 Annual Groundwater Report for Vacuum L-26 vent (1R425-66). Annual Reports are submitted yearly to update the NMOCD about groundwater quality and groundwater recovery, if applicable, for a particular site. This report does not require NMOCD approval; therefore, a flow chart is not included.

If you have any questions or require any additional information, please contact Hack Conder at 575-631-6432.

Thank you,

Laura Flores

Project Manager

Rice Environmental Consulting & Safety (RECS)

#### Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

#### March 10<sup>th</sup>, 2014

Mr. Leonard Lowe

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

> RE: 2013 Annual Groundwater Monitoring Report Rice Operating Company – Vacuum SWD System Vacuum L-26 vent (1R425-66): UL/L sec. 26 T17S R35E

Mr. Lowe:

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.

The site is located approximately 4 miles east of Buckeye, New Mexico in unit letter L, Sec. 26, T17S, R35E as shown on the Site Location Map. Groundwater sampling at the site indicates that groundwater is located at +/- 56 ft bgs.

After initial backhoe characterization, the site was disclosed to NMOCD as a potential groundwater impact site on December 1<sup>st</sup>, 2008. Since groundwater impact was suspected, MW-1 was installed on November 15<sup>th</sup>, 2010. Beginning on May 23, 2011, a 64 ft x 63 ft area was excavated to a depth of 5 feet below the surface (bgs). The bottom of the excavation was padded with 6-inches of clean blow sand and a 20-mil reinforced polyethylene liner was installed at 4.5 feet bgs. A 6-inch pad of clean blow sand was placed above the liner to protect the liner from punctures. The site was backfilled with pond bottom soil and blow sand. Soil amendments were added to the site and the site was seeded with a native vegetative mix. On October 13<sup>th</sup>, 2011, NMOCD granted the soil closure for this site, and required that ROC place additional monitoring wells at the site. Two additional monitoring wells were installed at the site on April 11<sup>th</sup>, 2011. NMOCD approved the Additional Groundwater Monitoring and Corrective Action Plan for Groundwater on February 16<sup>th</sup>, 2012. As a result, MW-1 was plugged and abandoned and replaced with a 4 inch well, MW-1R, on July 9<sup>th</sup>, 2012. Each well has been sampled quarterly since installation.

Groundwater recovery began on July 26<sup>th</sup>, 2012, from MW-1R. Since that time, approximately 5,424 barrels of groundwater have been removed. Since groundwater recovery began, chloride concentrations in MW-1R and MW-3 have decreased, suggesting the pumping program has been effective. ROC will continue with groundwater recovery throughout the 2014 year and then ROC will evaluate the data for

continued pumping efficacy. In addition, quarterly groundwater sampling will continue through 2014.

Attached is the Appendix, which contains:

- 1. A site location map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for each well at the site.
- 4. Graphs showing the concentrations of chloride and TDS in groundwater over time.
- 5. The laboratory analytical results for the most recent sampling event.

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,

Laura Flores

Rice Environmental Consulting & Safety (RECS)

Project Manager

Alores

#### Site Location Map



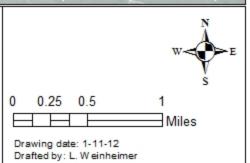


#### Vacuum L-26 vent

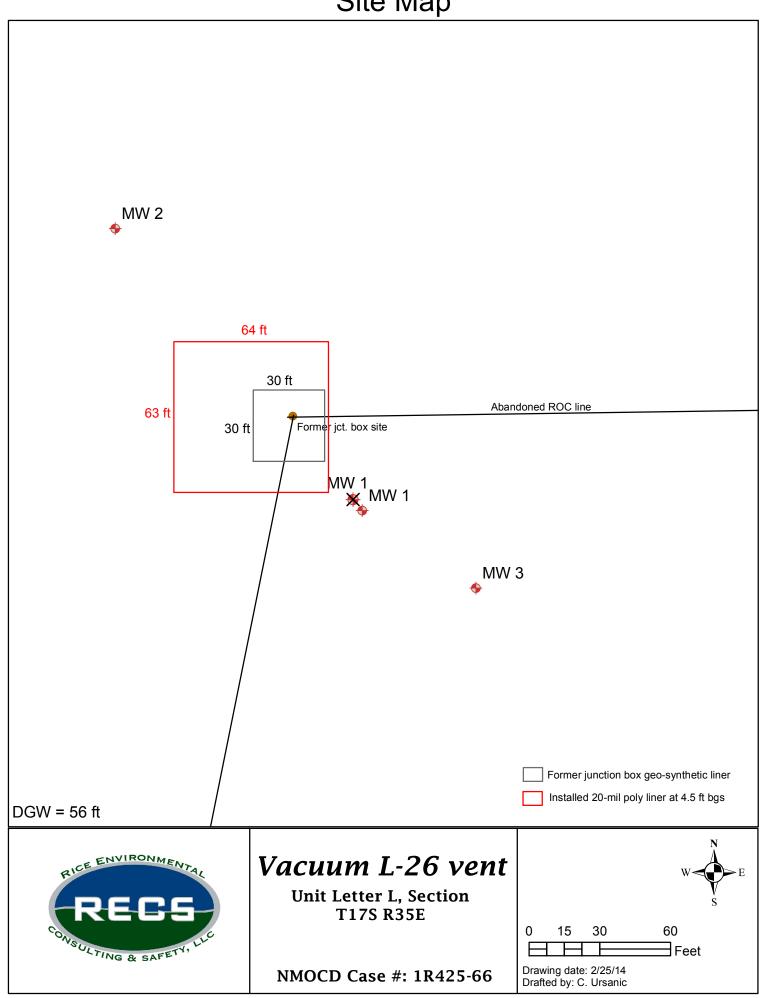
Case #: 1R425-66

Legals: UL/L sec. 26

T17S R35E



#### Site Map



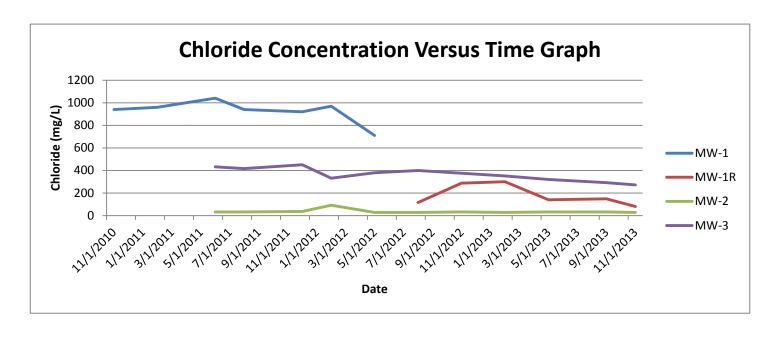
#### Vacuum L-26 vent (1R425-66)

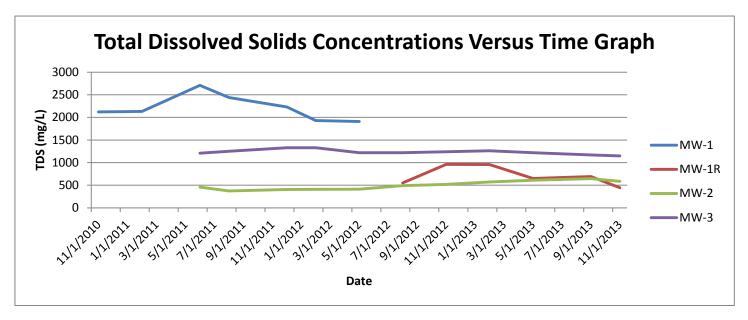
								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
	56.53	72.54	11/22/2010	940	2120	<0.001	<0.001	<0.001	< 0.003	79.6
	56.6	72.57	2/16/2011	960	2130	<0.001	< 0.001	<0.001	< 0.003	64
	56.7	72.57	6/4/2011	1040	2710	<0.001	<0.001	<0.001	< 0.003	64.7
MW-1	56.79	72.57	8/31/2011	940	2440	<0.001	<0.001	<0.001	< 0.003	67
	56.88	72.57	12/2/2011	920	2230	<0.001	<0.001	<0.001	< 0.003	73.7
	56.95	72.57	2/22/2012	970	1930	<0.001	<0.001	<0.001	< 0.003	66.3
	57.06	72.57	5/29/2012	710	1910	<0.001	<0.001	<0.001	<0.003	66.4

								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
	XXX	XXX	8/24/2012	116	551	<0.001	<0.001	< 0.001	<0.003	63.6
	XXX	XXX	11/15/2012	288	960	<0.001	<0.001	< 0.001	< 0.003	59.5
	Pump in the									
MW-1R	Well	XXX	2/12/2013	300	958	<0.001	<0.001	<0.001	<0.003	55.1
	XXX	XXX	5/30/2013	140	651	<0.001	<0.001	<0.001	< 0.003	60
	XXX	XXX	9/6/2013	148	692	<0.001	<0.001	<0.001	< 0.003	50.2
	XXX	XXX	11/19/2013	80	446	<0.001	<0.001	< 0.001	< 0.003	58.7

								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
56.83 62.78 6/4/20				32	457	<0.001	<0.001	<0.001	<0.003	37
	56.93	62.78	8/31/2011	32	374	<0.001	<0.001	<0.001	<0.003	33.5
	57.02	62.78	12/2/2011	36	405	<0.001	<0.001	<0.001	<0.003	40.8
57.09 62.78 2/22/2012				92	408	<0.001	<0.001	<0.001	<0.003	41.6
	MW-2 57.2 62.78 5/29/2012 57.44 62.78 8/24/2012 54.48 62.78 11/15/2012		28	411	<0.001	<0.001	< 0.001	<0.003	41.4	
MW-2			8/24/2012	28	490	<0.001	<0.001	<0.001	<0.003	27.7
			11/15/2012	32	518	<0.001	< 0.001	< 0.001	< 0.003	20.3
	57.49	62.78	2/12/2013	28	573	<0.001	<0.001	< 0.001	<0.003	28.7
	57.62	62.78	5/30/2013	32	611	<0.001	<0.001	<0.001	<0.003	28.7
	57.75	62.78	9/6/2013	32	646	<0.001	<0.001	<0.001	<0.003	31
	57.81	62.78	11/19/2013	28	587	<0.001	<0.001	<0.001	<0.003	32.2

								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
	56.14	68.92	6/4/2011	432	1210	<0.001	<0.001	<0.001	<0.003	69.1
	52.24	68.92	8/31/2011	416	1250	<0.001	< 0.001	<0.001	<0.003	47.3
	56.34	68.92	12/2/2011	450	1330	<0.001	<0.001	<0.001	<0.003	56.8
	56.4 68.92 2/22/2012				1330	<0.001	<0.001	<0.001	<0.003	54.9
	W-3 56.57 68.92 5/29/2012 56.74 68.92 8/24/2012 56.77 68.92 11/15/2012		380	1220	<0.001	<0.001	<0.001	<0.003	57.4	
MW-3			8/24/2012	400	1220	<0.001	<0.001	<0.001	<0.003	48.9
			11/15/2012	376	1240	<0.001	<0.001	<0.001	<0.003	48.7
	56.78	68.92	2/12/2013	352	1260	<0.001	<0.001	<0.001	<0.003	52.6
	56.91	68.92	5/30/2013	320	1220	<0.001	< 0.001	<0.001	< 0.003	49
	56.91	68.92	9/6/2013	292	1170	<0.001	<0.001	<0.001	<0.003	46.2
	57.1	69.92	11/19/2013	272	1150	<0.001	<0.001	<0.001	<0.003	45.1







December 03, 2013

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM L-26 VENT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/13 12:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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 Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 11/20/2013

Reported: 12/03/2013

Project Name: VACIJIM I -26 VENT

Project Name: VACUUM L-26 VENT
Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC26 L-LEA CTY., NM

Sampling Date: 11/19/2013

Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: MONITOR WELL #1R (H302831-01)

BTEX 8021B	mg/	L	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001 0.001		12/02/2013	ND	0.056	113	0.0500	0.721	
Toluene*	<0.001	0.001	12/02/2013	ND	0.056	111	0.0500	0.0556	
Ethylbenzene*	<0.001	0.001	12/02/2013	ND	0.055	111	0.0500	0.123	
Total Xylenes*	<0.003	0.003	12/02/2013	ND	0.163	108	0.150	0.0111	
Total BTEX	<0.006	0.006	12/02/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	6 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	80.0	4.00	11/25/2013	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	<b>58.7</b> 10.0		11/25/2013	ND	17.8	89.0	20.0	4.72	
TDS 160.1	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	446	5.00	11/26/2013	ND	248	103	240	1.34	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

11/19/2013

Cool & Intact

Jodi Henson

Water



#### Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:11/20/2013Sampling Date:Reported:12/03/2013Sampling Type:Project Name:VACUUM L-26 VENTSampling Condition:Project Number:NOT GIVENSample Received By:

Project Location: T17S-R35E-SEC26 L-LEA CTY., NM

#### Sample ID: MONITOR WELL #2 (H302831-02)

BTEX 8021B	mg/	'L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/24/2013	ND	0.056	113	0.0500	0.721	
Toluene*	<0.001 0.001		11/24/2013	ND	0.056	111	0.0500	0.0556	
Ethylbenzene*	< 0.001	0.001	11/24/2013	ND	0.055	111	0.0500	0.123	
Total Xylenes*	<0.003	0.003	11/24/2013	ND	0.163	108	0.150	0.0111	
Total BTEX	<0.006	0.006	11/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.5-12	16						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	11/25/2013	ND	100	100	100	0.00	
Sulfate 375.4	mg/	'L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	32.2	10.0	11/25/2013	ND	17.8	89.0	20.0	4.72	
TDS 160.1	mg/	'L	Analyze	d By: AP					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	587	5.00	11/26/2013	ND	248	103	240	1.34	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 11/20/2013 Sampling Date: 11/19/2013 Reported: 12/03/2013 Sampling Type: Water Project Name: VACUUM L-26 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Jodi Henson

Project Location: T17S-R35E-SEC26 L-LEA CTY., NM

#### Sample ID: MONITOR WELL #3 (H302831-03)

BTEX 8021B	mg/	<sup>/</sup> L	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/24/2013	ND	0.056	113	0.0500	0.721	
Toluene*	< 0.001	0.001	11/24/2013	ND	0.056	111	0.0500	0.0556	
Ethylbenzene*	0.001	11/24/2013	ND	0.055	111	0.0500	0.123		
Total Xylenes*	<0.003	0.003	11/24/2013	ND	0.163	108	0.150	0.0111	
Total BTEX	<0.006	0.006	11/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.5-12	16						
Chloride, SM4500CI-B	mg/	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	272	4.00	11/25/2013	ND	104	104	100	0.00	
Sulfate 375.4	mg/	/L	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	45.1	10.0	11/25/2013	ND	17.8	89.0	20.0	4.72	
TDS 160.1	mg/	/L	Analyze	ed By: AP					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1150	5.00	11/26/2013	ND	248	103	240	1.34	

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

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Celey D. Keine

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