

1R - 425-104

REPORTS

DATE:

4-17-12

1R425-104

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2011 MAY -1 P 1:52

Vacuum I-7 EOL
2011

CLOSURE

RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

May 1, 2012

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: Termination Request
Vacuum I-7 EOL: UL/I, Sec. 7, T18S, R35E
RICE Operating Company – Vacuum SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the abandoned Vacuum Saltwater Disposal (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

In 2011, ROC initiated work on the former I-7 EOL. The site is located in UL/I, Sec. 7, T18S, R35E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 87 +/- feet. After the former junction box was removed, an investigation was conducted using a drilling rig to collect soil samples at regular intervals. The soil bore was initiated on 7/25/2011 and was advanced to a total depth of 5 ft below ground surface. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 5-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 192 mg/kg, and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bore was plugged with bentonite to ground surface. This site was not seeded due to the close proximity of the lease road. The junction box final report, photo documentation, laboratory analysis, PID sheet, and chloride graph.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction

Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a stylized flourish at the end.

Hack Conder
Environmental Manager

enclosures

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Vacuum	I-7 EOL	1	7	18S	35E	Lea	Length	Width	Depth
							Eliminated		

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 87 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 7/25/2011 Date Completed 7/25/2011 OCD Witness No

Soil Excavated N/A cubic yards Excavation Length N/A Width N/A Depth 5 feet

Soil Disposed N/A cubic yards Offsite Facility N/A Location N/A

FINAL ANALYTICAL RESULTS: Sample Date 7/25/2011 Sample Depth 5'

TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
Source @ 5'	4.3	<10.0	<10.0	192

CHLORIDE FIELD TESTS		
LOCATION	DEPTH	mg/kg
background	6"	115
SB-1 at source	1'	294
	2'	226
	3'	372
	4'	235
	5'	174

General Description of Remedial Action: This junction was eliminated during the Vacuum SWD system abandonment program. After the former junction box was removed, an investigation was conducted using a drilling rig to collect soil samples at regular intervals. The soil bore was initiated on 7/25/2011 and was advanced to a total depth of 5-ft. below ground surface. Chloride field tests were performed on each sample and organic vapors were measured using a PID. The 5-ft. sample was taken to a commercial laboratory for analysis of chloride and TPH which yielded low TPH and decreasing chloride concentration. The bore was plugged with bentonite to ground surface. This site was not seeded due to the close proximity of the lease road.

enclosures: photos, soil bore log, lab results, PID (field) screenings, chloride curve

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Kyle Norman SIGNATURE 

REPORT ASSEMBLED BY Amy C. Ruth SIGNATURE 

COMPANY RICE OPERATING COMPANY

PROJECT LEADER Zach Conder SIGNATURE 

DATE 8-17-12

Vacuum I-7 EOL

Unit I, Section 7, T18S, R35E



Site prior to drilling, facing west

7.25.2011



Drilling SB-1, facing north

7.25.2011





Plugging SB-1 in total with bentonite

7.25.2011



SB-1 complete, facing north

7.25.2011

Logger:	Kyle Norman					
Driller:	Harrison & Cooper, Inc.					
Drilling Method:	Air rotary		Project Name:		Well ID:	
Start Date:	7/25/2011		Vacuum I-7 EOL		SB-1	
End Date:	7/25/2011		Project Consultant: Junction box plan			
Comments: Located at the source of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 5 ft						

July 27, 2011

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

RE: VACUUM I-7 EOL

Enclosed are the results of analyses for samples received by the laboratory on 07/25/11 15:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

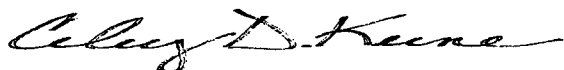
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

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

COPY

Analytical Results For:

 Rice Operating Company
 Hack Conder
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

 Received: 07/25/2011
 Reported: 07/27/2011
 Project Name: VACUUM I-7 EOL
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/25/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: INITIAL @ 5' (H101543-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/26/2011	ND	400	100	400	3.92	

TPH 8015M

mg/kg

Analyzed By: ab

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2011	ND	184	91.8	200	3.23	
DRO >C10-C28	<10.0	10.0	07/26/2011	ND	167	83.4	200	3.62	

Surrogate: 1-Chlorooctane 117 % 70-130

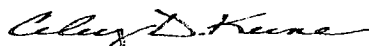
Surrogate: 1-Chlorooctadecane 127 % 70-130

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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 D. Keene, Lab Director/Quality Manager

Notes and Definitions

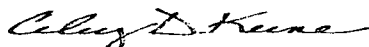
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

*=Accredited Analyte

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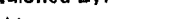




Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

COPY

Relinquished By: 		Date: 7-25-11 10-25-10	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 3:50	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date:	Received By:	REMARKS: email results kjones@riceswd.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
		Time:			
		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) 		

#26

RICE ENVIRONMENTAL CONSULTING & SAFETY

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

CK.		MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL	x	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.		MODEL: PGM 7320	SERIAL NO: 592-903318
		MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 930360	EXPIRATION DATE: 5/24/2013
METER READING ACCURACY: 99.9 ppm	

ACCURACY : +/- 2%

COMPANY
Rice Operating Company

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	I-7 EOL	I	7	18S	35E

SAMPLE ID	PID	SAMPLE ID	PID
Background @ 6"	1.1		
1'	0.9		
2'	4.1		
3'	3.3		
4'	1.5		
5'	4.3		

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

SIGNATURE:



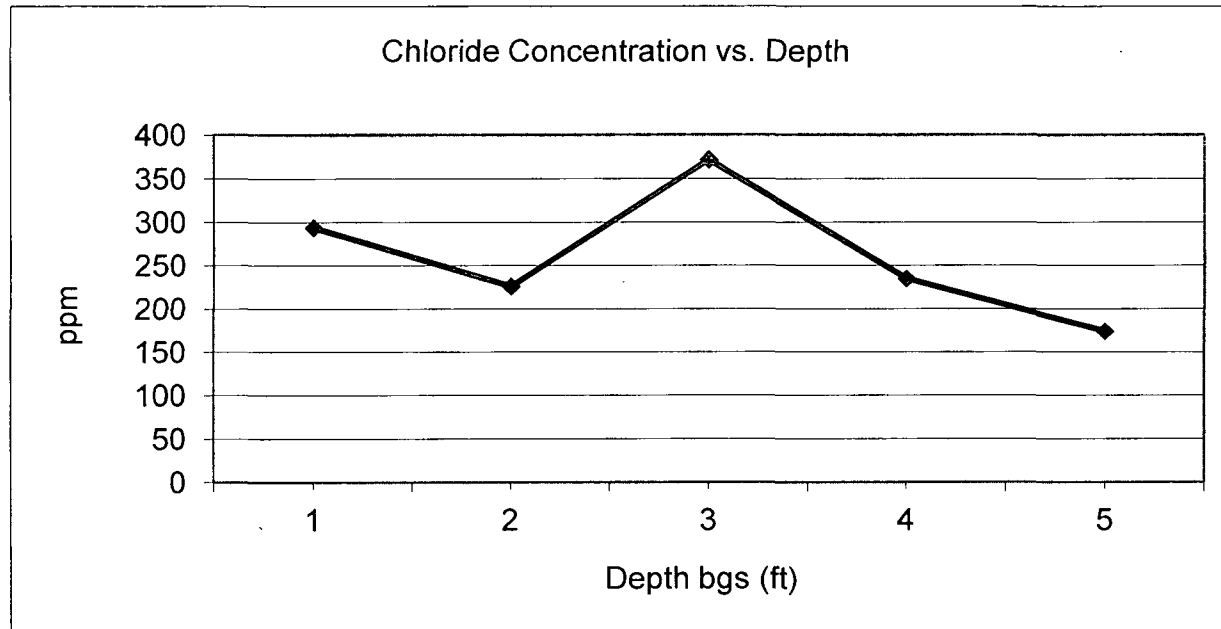
DATE: 7/25/2011

Vacuum I-7 EOL

Unit 'I', Sec. 7, T18S, R35E

Soil bore samples at the source

Depth bgs (ft)	[Cl] ppm
1	294
2	226
3	372
4	235
5	174



Groundwater = 87 ft