

1R - 425-76

**APPROVALS**

**YEAR(S):**

2012

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**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Monday, July 16, 2012 3:52 PM  
**To:** Hack Conder (hconder@riceswd.com)  
**Cc:** Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Scott Curtis (scurtis@riceswd.com)  
**Subject:** Remediation Plan (1R425-76) Termination - ROC Vacuum Jct C-6 Site

**RE: Termination Request  
for the Rice Operating Company's  
Vacuum Jct C-6 Site  
Unit Letter C, Section 6, T18S, R35E, NMPM, Lea County, New Mexico  
Remediation Plan (1R425-76) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated June 8, 2012 (received June 12, 2012). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R425-76) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen  
Hydrologist  
Environmental Bureau

RECEIVED OGD

2012 JUN 12 P 12: 43

**RICE** *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

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

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8593

June 8, 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 Jct. C-6 (1R425-76): UL/C, Sec. 6, 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 2009, ROC initiated work on the former C-6 junction box as part of the system abandonment. The site is located in UL/C, Sec. 6, T18S, R35E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 100 +/- feet. An investigation was conducted at the former junction box site using an air-rotary drilling rig to collect soil samples at regular intervals. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 6-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 64 mg/kg, and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The entire bore hole was plugged with bentonite to ground surface. Clean, imported soil was used to contour the site to the surrounding area. On 6/25/2009, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

The junction box final report, photo documentation, laboratory analysis, and PID sheet are attached.

**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", written in a cursive style.

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		
							Length	Width	Depth
Vacuum	Jct. C-6	C	6	18S	35E	Lea	eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 100 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 6/18/2009 Date Completed 6/18/2009 OCD Witness no

Soil Excavated n/a cubic yards Excavation Length n/a Width n/a Depth n/a feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 6/18/2009 Sample Depth 6 ft

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

**CHLORIDE FIELD TESTS**

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SB #1 6' GRAB	0.1	<10.0	<10.0	64

LOCATION	DEPTH	mg/kg
background	6'	153
vertical delineation at the junction (source)	2'	306
	3'	197
	4'	141
	5'	151
	6'	144

**General Description of Remedial Action:** This junction was addressed during the Vacuum SWD System abandonment. An investigation was conducted at the former junction box site using a air-rotary drilling rig to collect soil samples at regular intervals. Chloride field tests were performed on each sample which yielded low concentrations. Organic vapors were measured using a PID which also yielded low concentrations. The deepest sample, 6 ft BGS, was sent to a commercial laboratory for analysis of chloride and TPH. Lab analysis confirmed low concentrations of each. The entire bore hole was plugged with bentonite to the ground surface. Clean, imported soil was used to backfill the former junction box site and to contour the site to the surrounding area. On 6/25/2009, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, 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 Jordan Woodfin SIGNATURE *Jordan Woodfin* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 11-13-09

# Vacuum Jct. C-6

Unit C, Section 6, T18S, R35E



drilling SB #1 at the former junction box site 6/18/2009



collecting a soil sample 6/18/2009



plugged SB #1 with bentonite 6/18/2009



seeding backfilled site 6/25/2009



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
RICE OPERATING COMPANY  
ATTN: JORDAN WOODFIN  
122 W. TAYLOR  
HOBBS, NM 88240

Receiving Date: 06/19/09  
Reporting Date: 06/22/09  
Project Number: NOT GIVEN  
Project Name: VACUUM JCT C-6  
Project Location: VACUUM JCT C-6

COPY

Sampling Date: 06/18/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB/HM

LAB NUMBER SAMPLE ID	GRO	DRO	Cl*
	(C <sub>9</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	
	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	06/20/09	06/20/09	06/19/09
H17667-1 SB #1 @ 6FT	<10.0	<10.0	64
Quality Control	514	551	500
True Value QC	500	500	500
% Recovery	103	110	100
Relative Percent Difference	4.0	5.7	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl\*: Std. Methods 4500-ClB  
\*Analysis performed on a 1:4 w:v aqueous extract. Reported on wet weight.

  
\_\_\_\_\_  
Chemist

06/23/09  
\_\_\_\_\_  
Date

H17667 TCL RICE

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# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Operating</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager:		P.O. #:		COPY											
Address: <u>122 W TAYLOR</u>		Company:													
City: <u>HOBBS</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>393-9124</u> Fax #:		Address:													
Project #: Project Owner:		City:													
Project Name: <u>Vacuum Jet C-Co</u>		State: Zip:													
Project Location: <u>Vacuum Jet C-Co</u>		Phone #:													
Sampler Name: <u>JORDAN WOODFIN</u>		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
H17667-1	SB#1 @ left	5	1			X			X			6-19-09	10:24		

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Relinquished By: <u>Bruce Baker</u>	Date: <u>6/19/09</u> Time: <u>1:18pm</u>	Received By: <u>Misty K. Baker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>MBB</u>	REMARKS: <u>Email Results to BBAKER@RICESWP.COM cc JPURVIS@RICESWP.COM</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

