

1R - 425-05

**APPROVALS**

**YEAR(S):**

2012

**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Thursday, April 12, 2012 5:31 PM  
**To:** Hack Conder  
**Cc:** Leking, Geoffrey R, EMNRD; 'Katie Jones'; Laura Pena; 'Scott Curtis'  
**Subject:** Remediation Plan (1R425-05) Termination - ROC Vacuum Marathon Warn State 1 EOL Site

**RE: Termination Request  
for the Rice Operating Company's  
Vacuum Marathon Warn State 1 EOL Site  
Unit Letter F, Section 31, T17S, R35E, NMPM, Lea County, New Mexico  
Remediation Plan (1R425-05) 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 April 4, 2012 (received April 9, 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 (1R425-05) 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 OCD

2012 APR -9 A 6:16

## **RICE** *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

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

April 4, 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 Marathon Warn State 1 EOL (1R425-05): UL/F, Sec. 31, T17S, 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 2005, ROC initiated work on the former Marathon Warn State 1 EOL junction box as part of the system abandonment. The site is located in UL/F, Sec. 31, T17S, R35E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 117 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating an 8x3x8-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 8-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 169 mg/kg, and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area. On 12/2/2005, 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", with a long horizontal flourish extending to the right.

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	Marathon Warn State 1 EOL	F	31	17S	35E	Lea	Length	Width	Depth
							no box--SWD System abandoned		

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

Depth to Groundwater 117 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/25/2005 Date Completed 12/2/2005 NMOCD Witness no

Soil Excavated 7 cubic yards Excavation Length 8 Width 3 Depth 8 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 7/28/2005 Sample Depth 8 ft

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

**CHLORIDE FIELD TESTS**

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
GRAB @ 8 ft BGS	1.1	<10.0	<10.0	169

LOCATION	DEPTH (ft)	ppm
vertical delineation trench at junction	2	112
	3	173
	4	179
	5	146
	6	242
	7	148
	8	148

**General Description of Remedial Action:**

This end-of-line (EOL) junction box

was located next to a production facility. The junction box was removed and a delineation trench was made at the junction site with a backhoe. Soil samples were collected from the trench every vertical foot of depth from 2-8 ft. Field chloride tests were performed on the samples yielding very low concentrations. PID screenings performed on the samples were also very low. A samples from the bottom of the trench (8 ft) was sent to a laboratory for confirmation that confirmed the chloride field tests and yielded TPH concentrations below lab detection limits (<10.0 ppm), meeting NMOCD guidelines. The delineation trench was backfilled with the excavated soil and contoured to the surrounding surface. The disturbed surface resulting from these activities was seeded with a blend of native vegetation on 12/2/2005 and is expected to return to productive capacity at a normal rate.

enclosures: photos, lab results, PID field screenings

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

SITE SUPERVISOR Jorge Hernandez SIGNATURE not available COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope  
DATE 12/9/2005 TITLE Project Scientist

# Vacuum Marathon Warn State 1 EOL

Unit 'F', Sec. 31, T17S, R35E



undisturbed junction box

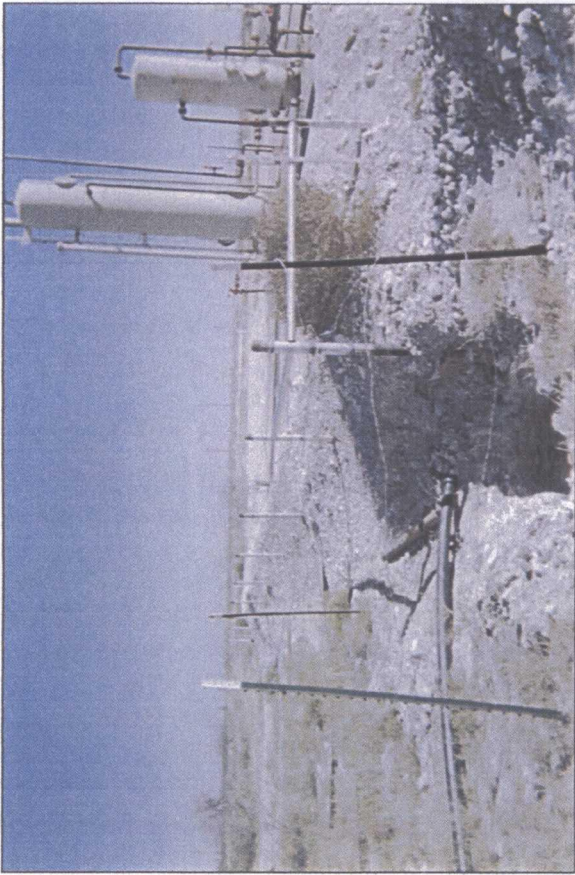
7/11/2005



delineation trench at former box site

7/25/2005





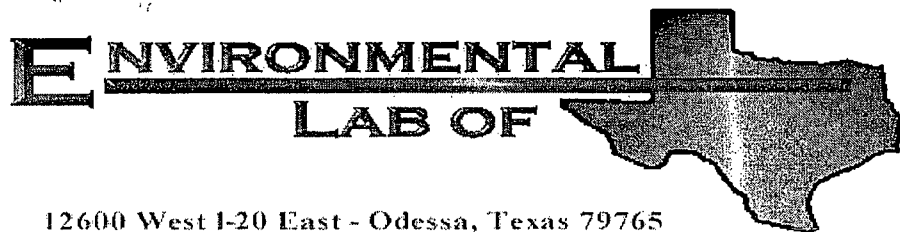
delineation trench at former box site 7/25/2005



backfilling and compacting 12/2/2005



seeding 12/2/2005



12600 West I-20 East - Odessa, Texas 79765

COPY

## Analytical Report

**Prepared for:**

Roy Rascon  
Rice Operating Co.  
122 W. Taylor  
Hobbs, NM 88240

Project: Vacuum Marathon <sup>WAKN</sup> Warren St #1

Project Number: None Given

Location: None Given

Lab Order Number: 5H01004

Report Date: 08/04/05



Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471  
Reported:  
08/04/05 10:34

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Grab Sample Bottom @ 8'	5H01004-01	Soil	07/28/05 10:00	07/29/05 17:45

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
08/04/05 10:34

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Grab Sample Bottom @ 8' (5H01004-01) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH50101	08/01/05	08/01/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-130		"	"	"	"	

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
08/04/05 10:34

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Grab Sample Bottom @ 8' (5H01004-01) Soil</b>									
Chloride	169	5.00	mg/kg	10	EH50311	08/03/05	08/03/05	EPA 300.0	
% Moisture	10.2	0.1	%	1	EH50201	08/01/05	08/02/05	% calculation	

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
08/04/05 10:34

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH50101 - Solvent Extraction (GC)**

**Blank (EH50101-BLK1)**

Prepared & Analyzed: 08/01/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130		
Surrogate: 1-Chlorooctadecane	59.9		"	50.0		120	70-130		

**LCS (EH50101-BS1)**

Prepared & Analyzed: 08/01/05

Gasoline Range Organics C6-C12	442	10.0	mg/kg wet	500		88.4	75-125		
Diesel Range Organics >C12-C35	447	10.0	"	500		89.4	75-125		
Total Hydrocarbon C6-C35	889	10.0	"	1000		88.9	75-125		
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	70-130		
Surrogate: 1-Chlorooctadecane	62.8		"	50.0		126	70-130		

**Calibration Check (EH50101-CCV1)**

Prepared & Analyzed: 08/01/05

Gasoline Range Organics C6-C12	455		mg/kg	500		91.0	80-120		
Diesel Range Organics >C12-C35	451		"	500		90.2	80-120		
Total Hydrocarbon C6-C35	906		"	1000		90.6	80-120		
Surrogate: 1-Chlorooctane	56.1		"	50.0		112	0-200		
Surrogate: 1-Chlorooctadecane	64.3		"	50.0		129	0-200		

**Matrix Spike (EH50101-MS1)**

Source: 5G29011-01

Prepared & Analyzed: 08/01/05

Gasoline Range Organics C6-C12	459	10.0	mg/kg dry	542	ND	84.7	75-125		
Diesel Range Organics >C12-C35	558	10.0	"	542	51.3	93.5	75-125		
Total Hydrocarbon C6-C35	1020	10.0	"	1080	51.3	89.7	75-125		
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	70-130		
Surrogate: 1-Chlorooctadecane	63.2		"	50.0		126	70-130		

**Matrix Spike Dup (EH50101-MSD1)**

Source: 5G29011-01

Prepared & Analyzed: 08/01/05

Gasoline Range Organics C6-C12	470	10.0	mg/kg dry	542	ND	86.7	75-125	2.37	20
Diesel Range Organics >C12-C35	560	10.0	"	542	51.3	93.9	75-125	0.358	20
Total Hydrocarbon C6-C35	1030	10.0	"	1080	51.3	90.6	75-125	0.976	20
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	70-130		
Surrogate: 1-Chlorooctadecane	62.3		"	50.0		125	70-130		

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
08/04/05 10:34

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EH50201 - General Preparation (Prep)**

Blank (EH50201-BLK1) Prepared: 08/01/05 Analyzed: 08/02/05

% Moisture ND 0.1 %

Duplicate (EH50201-DUP1) Source: 5G29011-01 Prepared: 08/01/05 Analyzed: 08/02/05

% Moisture 8.3 0.1 % 7.8 6.21 20

**Batch EH50311 - Water Extraction**

Blank (EH50311-BLK1) Prepared & Analyzed: 08/03/05

Chloride ND 0.500 mg/kg

LCS (EH50311-BS1) Prepared & Analyzed: 08/03/05

Chloride 10.1 mg/L 10.0 101 80-120

Calibration Check (EH50311-CCV1) Prepared & Analyzed: 08/03/05

Chloride 10.4 mg/L 10.0 104 80-120

Duplicate (EH50311-DUP1) Source: 5H01003-01RE1 Prepared & Analyzed: 08/03/05

Chloride 989 25.0 mg/kg 975 1.43 20



Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Vacuum Marathon Warren St #1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471  
Reported:  
08/04/05 10:45

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 8-04-05

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

LaTasha Cornish, Chemist

Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

12600 West I-20 East  
Odessa, Texas 79763  
Phone: 915-563-1800  
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Vaccines measles WARD st 1  
KRR

**Project Manager: Roy Rascon**

Company Name Rice Operating Company

**Company Address:** 122 W Taylor

City/State/Zip: Hobbs, NM 88240

Telephone No: 505-393-9174

Fax No: 505-397-1471

**Sampler Signature:**

[illegible]

1029556162017  
12251297/1220556162017  
1000201525

Date	7/29	Time	15:00
Date	7-29-05	Time	1745

Received by: CD Vargan  
Received by ELOT: CD Vargan

Date	Time
7-28-05	17:46

Relinquished by: David H. Hardy  
Relinquished by: (D Hardy)

# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 08-01-05 @ 0915

Order #: 5401004

Initials: JMM

### Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	1.0	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

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### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Regarding:

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Corrective Action Taken:

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HOBBS, NEW MEXICO 88240  
PHONE: (505) 393-9174 FAX: (505) 397-1471  
**VOC FIELD TEST REPORT FORM**

MODEL NO: PGM 761S  
CALIBRATION GAS  
GAS COMPOSITION: ISOBUTYLENE AIR

LOT NO: 4-2747  
EXP. DATE: 8-1-06  
METER READING  
ACCURACY: 100

SERIAL NO: 104412

100 PPM  
BALANCE  
FILL DATE: 2-1-85  
ACCURACY:  $\pm 2\%$

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Yacuum	merather St #1 EOL	WARN F	.31	17.5	35E

grab sample

[illegible]

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

Signature

Signature Jay Hernandez

Date 7-28-05

Date 7-28-08