

1R - 427-323

**APPROVALS**

**YEAR(S):**

2013

**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Monday, March 11, 2013 11:27 AM  
**To:** Hack Conder (hconder@riceswd.com)  
**Cc:** Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones <kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)  
**Subject:** Remediation Plan (1R427-323) Termination - ROC EME D-17 EOL Site

**RE: Termination Request  
for the Rice Operating Company's  
EME D-17 EOL Site  
Unit Letter D, Section 17, T21S, R36E, NMPM, Lea County, New Mexico  
Remediation Plan (1R427-323) 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 February 21, 2013 (received February 26, 2013). The reports are 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 (1R427-323) 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  
RICE Operating Company  
2013 FEB 26 A 10:55  
112 West Taylor • Hobbs, New Mexico 88240  
Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL  
RETURN RECEIPT NO. 7007 2560 0000 4569 8869

**February 21, 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: Termination Request  
EME D-17 EOL (1R427-323): UL/D, Sec. 17, T21S, R36E  
RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME 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 2010, ROC initiated work on the former D-17 EOL junction box. The site is located in UL/D, Sec. 17, T21S, R36E. NM OSE records indicated that groundwater would likely be encountered at a depth of approximately 234 +/- feet. However, a recent groundwater survey indicated that groundwater would likely be encountered at a depth of approximately 195 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 5x3x8 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low chloride concentrations. The 8 ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 96 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 and contoured to the surrounding area. On 4/7/2010, the site was seeded with a blend of native vegetation. A junction box is no longer needed at the site. Vegetation has rebounded at the site, so no re-vegetation efforts are needed.

The junction box site location map, final report, photodocumentation, laboratory analysis, PID sheet, chloride graph and current photodocumentation 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 stylized flourish at the end.

Hack Conder  
Environmental Manager

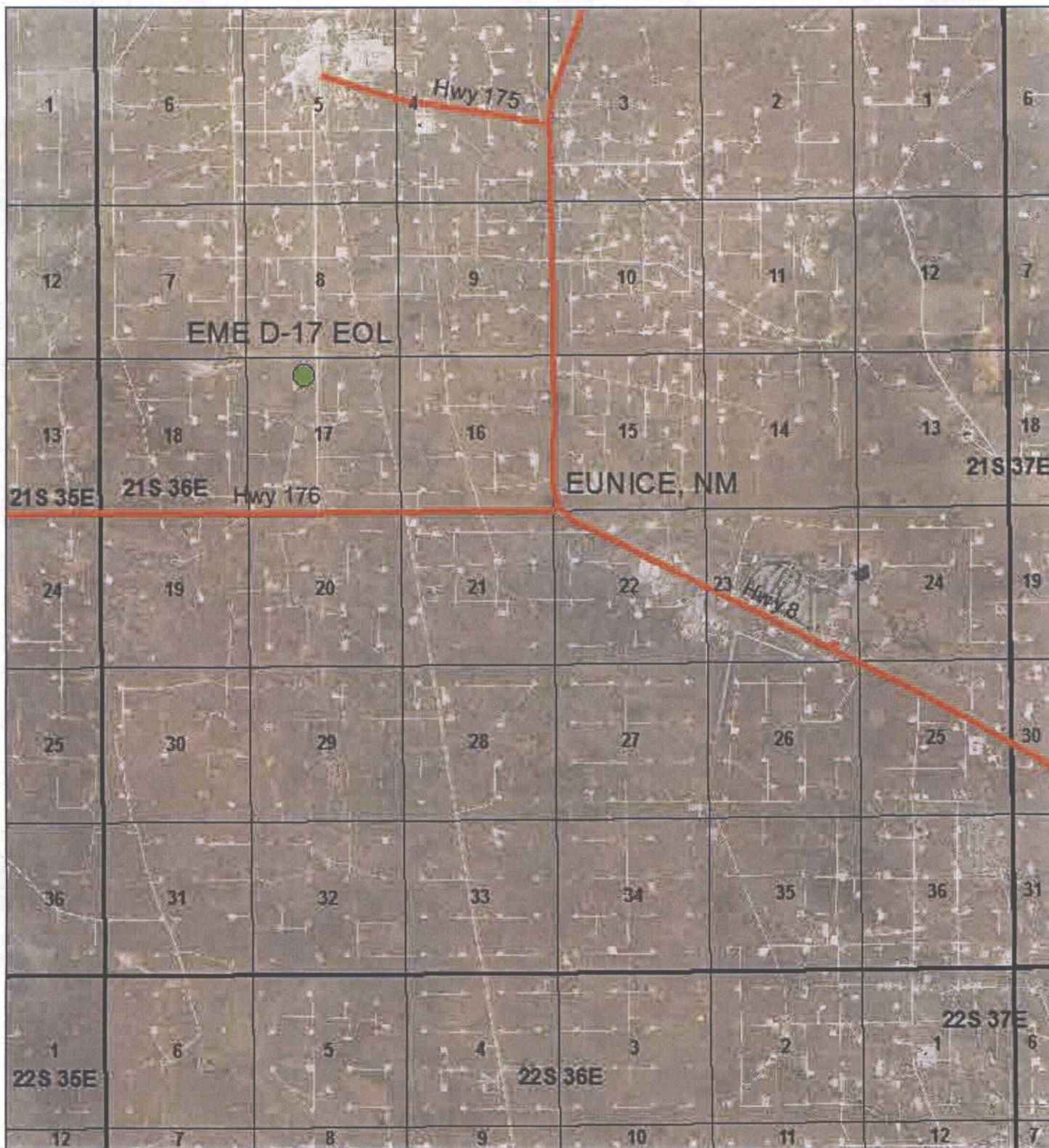
enclosures



## Site Location Map

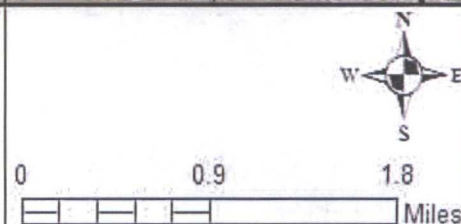
**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471





## EME D-17 EOL (1R427-323)

UL D, Sec. 17,  
T-21-S, R-36-E  
LEA COUNTY, NM





# Junction Box Report

**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471



RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Eunice-Monument-Eumont (EME)	D-17 EOL	D	17	21S	36E	Lea	Length	Width	Depth
							Eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Monty Morton OTHER \_\_\_\_\_

Depth to Groundwater 234 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 3/29/2010 Date Completed 3/29/2010 OCD Witness no

Soil Excavated 4.4 cubic yards Excavation Length 5 Width 3 Depth 8 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/29/2010 Sample Depth 8 ft

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 8' GRAB	0.3	<10.0	<10.0	96

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
background	6"	148
	4'	143
vertical delineation trench at the junction (source)	5'	152
	6'	138
	7'	150
	8'	201

**General Description of Remedial Action:** This junction box and line were eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 5x3x8-ft-deep excavation. Chloride field tests performed on each sample yielded low concentrations similar to that of the background. Organic vapors were measured using a PID and also yielded low concentrations. The deepest sample, 8 ft. BGS was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area. On 4/7/2010, 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 Larry Bruce Baker Jr. INITIAL LB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 8-31-10



## EME D-17 EOL

Unit D, Section 17, T21S, R36E



Site prior to excavation

3/29/2010



Collecting a soil sample

3/29/2010



Final excavation

3/29/2010



Seeding excavation

4/7/2010



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

ANALYTICAL RESULTS FOR  
RICE OPERATING COMPANY  
ATTN: BRUCE BAKER  
112 W. TAYLOR  
HOBBS, NM 88240

Receiving Date: 03/29/10  
Reporting Date: 04/05/10  
Project Number: NOT GIVEN  
Project Name: EME D-17 EOL 21/36  
Project Location: EME D-17 EOL 21/36

Sampling Date: 03/29/10  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: JH  
Analyzed By: CK/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	(mg/kg)

ANALYSIS DATE	03/30/10	03/30/10	03/30/10
H19571-1** SOURCE BTM GRAB @ 8FT	<10.0	<10.0	96
Quality Control	569	500	500
True Value QC	500	500	500
% Recovery	114	100	100
Relative Percent Difference	0.5	2.6	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B

\*Analysis performed on a 1:4 w:v aqueous extract.

Reported on wet weight.

\*\*TPH second surrogate outside historical limits due to matrix interference.

Chemist

Date

H19571 TCL RICE

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 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.



# **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: Rice Operating Company				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Bruce Baker				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> </div>																			
Address: 122 West Taylor				Company:																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: 575-393-9174 Fax #: 575-397-1471				Address:																							
Project #: Project Owner:				City:																							
Project Name: EME D-17 EOL 2.1/30				State: Zip:																							
Project Location: EME D-17 EOL 2.1/30				Phone #:																							
Sampler Name: Jordan Woodfin				Fax #:																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX						PRESERV		SAMPLING													
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE												
H19571-1		Source B.M. Grab @ BFT		1		<input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> ACID/BASE						<input checked="" type="checkbox"/> ICE / COOL		3-29-10 11:15am		<div style="text-align: center; font-size: 2em; opacity: 0.5;">COPY</div>											

DISCLAIMER: 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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date:		Received By:		Phone Result:		Add'l Phone #:	
Jordan Woodfin		3-29-10		Jodi Benson		<input type="checkbox"/> Yes <input type="checkbox"/> No			
		Time:				Fax Result:		Add'l Fax #:	
						<input type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished By:		Date:		Received By:		REMARKS:  email results jwoodfin@riceswd.com; jpurvis@riceswd.com bbaker@riceswd.com			
		Time:							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
<input checked="" type="checkbox"/> Sampler - UPS - Bus - Other:		<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) JH					

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

#26

NEED SAMPLES BACK, PLEASE

# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

✓

Model: PGM 7300 Serial No: 590-000509  
 Model: PGM 7300 Serial No: 590-000508  
 Model: PGM 7300 Serial No: 590-000504


Model: PGM 7600 Serial No: 110-023920  
 Model: PGM 7600 Serial No: 110-013744  
 Model: PGM 7600 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 924503	EXPIRATION DATE: 7-5-12
FILL DATE: 7-1-09	METER READING ACCURACY: 98.6

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	D-17 EOL	D	17	21 S	36 E

SAMPLE ID	PID	SAMPLE ID	PID
Source		Background	
4'	0.8	6"	0.1
5'	0.6		
6'	0.3		
7'	0.7		
8'	0.3		

COPY

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

SIGNATURE:

*Jordan Wood*

DATE: 3-29-10

## CHLORIDE CONCENTRATION CURVE

RICE *Operating Company*

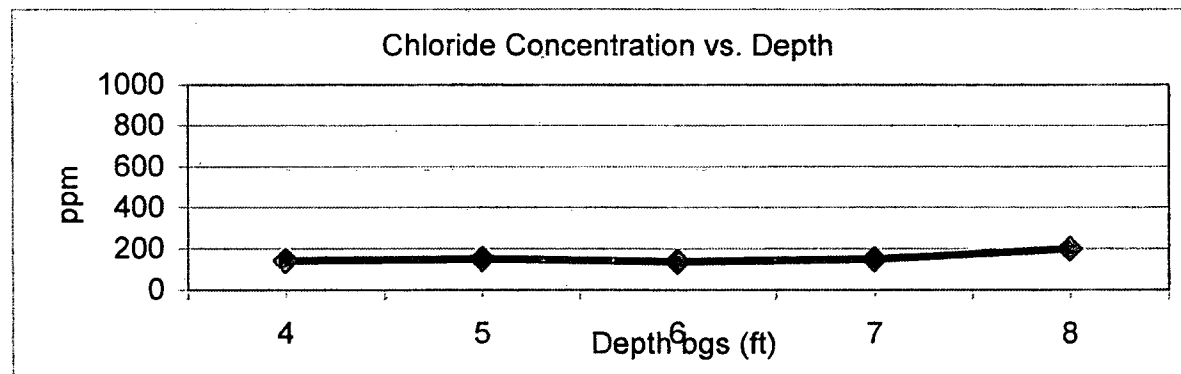
### EME D-17 EOL

Unit 'D', Sec. 17, T21S, R36E

*Backhoe samples at the junction (source)*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
4	143
5	152
6	138
7	150
8	201

Groundwater = 234 ft.







## Current Photodocumentation

**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471

**EME D-17 EOL**  
UL/D, Section 17, T21S, R36E



Facing south

2/11/2013



Facing west

2/11/2013