# 1R-427-48

# **APPROVALS**

YEAR(S):

2013

### Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

**Sent:** Monday, September 23, 2013 4:02 PM **To:** Hack Conder (hconder@riceswd.com)

Cc: Leking, Geoffrey R, EMNRD; Laura Pena (Ipena@riceswd.com); Katie Jones

<kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)

Subject: Remediation Plan (1R427-48) Termination - ROC EME H-29 Site

**RE: Termination Request** 

for the Rice Operating Company's

EME H-29 Site

Unit Letter H, Section 29, T21S, R36E, NMPM, Lea County, New Mexico

Remediation Plan (1R427-48) 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 September 12, 2013 (received September 16, 2013). 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 (1R427-48) 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 122 West Taylor • Hobbs, New Mexico \$82407 15 Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL
RETURN RECEIPT NO. 7007 2560 0000 4569 8944

September 12, 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 H-29 (1R427-48): UL/H, Sec. 29, T21S, R36E

RICE Operating Company - Eunice Monument Eumont (EME) 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 and Previous Work**

In 2003, ROC initiated work on the former H-29 junction box. The site is located in UL H, Sec. 29, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 174 +/- feet. The site was delineated using a backhoe to form a 20x20x14-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides, resulting in concentrations that did not decrease with depth. The 14 ft sample was submitted to a commercial laboratory to be analyzed for chloride and DRO, resulting in a chloride concentration of 1,332 mg/kg and a diesel range organics (DRO) concentrations of 27 mg/kg. The excavation was backfilled to ground surface and contoured to the surrounding area. A new, watertight junction box was installed 50 ft east of the site and has since been upgraded to a concrete box; therefore, no seeding is required.

To further investigate the depth of chloride presence, a soil bore was initiated on December 30, 2003 at the former junction box site. The boring was advanced to a depth of 46 ft bgs. Soil samples collected every 5 ft. Each sample was field titrated for chlorides, resulting in concentrations that did relent with depth. The 46 ft sample was sent to a commercial laboratory

for analysis, resulting in a chloride concentration of 192 mg/kg. The entire bore hole was plugged to ground surface.

The junction box site map, area map, final report, photodocumentation, chloride graph, soil bore log, laboratory analysis, vertical notes, PID sheet 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)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,

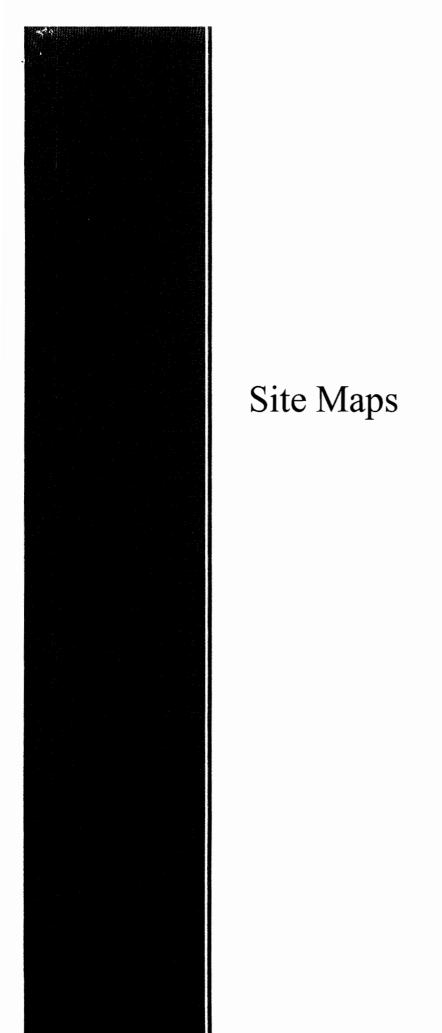
RICE Operating Company

(Loves?

Laura Flores

Environmental Project Assistant Manager

enclosures



RICE Operating Company (ROC) 419 West Cain Hobbs, NM 88240

Phone: (575) 393-2967 Fax: (575) 393-0293

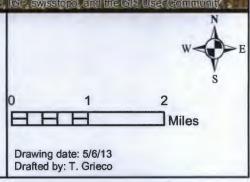
# Site Location Map





EME H-29 (1R427-48)

UL H SECTION 29 T-21-S R-36-E LEA COUNTY, NM



# Area Map





EME H-29 (1R427-48)

UL H SECTION 29 T-21-S R-36-E LEA COUNTY, NM



0 0.1 0.2 HHH Miles

Drawing date: 5/6/13 Drafted by: T. Grieco



Phone: (575) 393-2967 Fax: (575) 393-0293

# RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

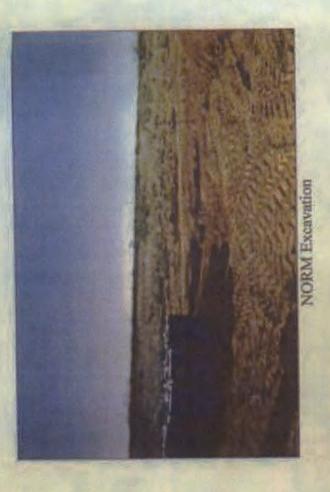
**BOX LOCATION** 

SWD SYS	TEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	ВО	X DIMENSIONS -	FEET		
EME		H-29	н	29	218	36E	Lea	Length	Width	Depth	4	
							L	<u>L</u>	Moved 50 ft Eas	31		
LAND TYP	PE: E	BLM	STATE	KFEE L	ANDOWNER			отн	ER			
Depth to	Depth to Groundwater 174 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0											
Date Started 10/21/2003 Date Completed 10/27/2003 OCD Witness No												
Soil Exca	vated	200 (excavat trenches)	ion cubic ya	rds Ex	cavation Le	ngth 20	Width	20	Depth	14	feet	
Soil Disp	osed	00	cubic ya	rds O	ffsite Facility	n	/a	Locati	on	n/a		
Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.												
Sample Location		Benzene mg/kg	Tol me		RO g/kg	<u>DRO</u> mg/kg	Chlorid mg/kg					
Soil Bore @		XXX		xx	mg/kg XXX	mg/kg XXX		xx	XXX		192	
Vertical @				PID = 0.0	ppm		X	xx	27	1332		
								CHL	ORIDE FIELD	TESTS		
General Des	criptio	n of Remed	lial Action:	During initia	I delineation tre	enches made v	with L	OCATION	N DEPTH (	ft) pp	m	
a backhoe to 14	ft bgs	, chloride cond	entrations did	not sufficien	itly decline. The	ere were no		Soil Bore	20	86	38	
indications of TI									25	98	36	
at 47 ft bgs, a c							ed -		30	87	71	
on the decline, I									35	56	36	
backfilled with c									40	64		
surface. A new									45		14	
		·	<u> </u>		t or ano one.		—  -		46		39	
enclosures: chic	oride a	ranh photos	ab results PI	D readings s	oil bore			<u>.</u>		_		
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SIGNATURE_		notion	070111	<u> </u>				Pi	roject Scientist			

# **EME** jet. H-29



Undisturbed box prior to NORM removal





Delineation & Excavation

Oct. 2003



Construction of New Junction Box 50 ft East



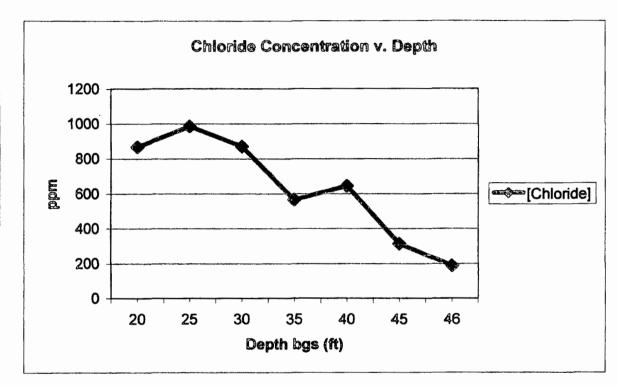
Looking East: Soil bore location marked by wooden stake; new box in background

EME jct. H-29 T21S, R36E

Soil Bore

Depth bgs (ft)	[Cl] ppm
20	868
25	986
30	871
35	566
40	645
45	314
46	189

Groundwater = 174 ft



	Logger:		Joe Gatts; Mort Bates	Client:	Well ID:		
	Driller:		Atkins Engineering Associates, Inc.	RICE Operating Company			
Drillin	g Method:		Hollow Stem Auger	Project Name:	1		
	Start Date:		12/30/2003	jct. H-29	1		
					SB-1		
	End Date:	L	12/30/2003	Location:	30-1		
Notes:	В	ackfille	ed with drill cuttings; TD = 47 ft;	EME SWD System	-li		
	_		Groundwater = 174 ft	Sec. 29, T21S, R36E	1		
			Glodiidwater - 174 it	Lea County, NM			
Depth	Split Sp	oon			Additional		
(feet)	chloride	PID	Description	Lithology	Notes		
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0.0							
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4.0							
6.0							
			Silty sand mixed with broken				
8.0							
			caliche:				
10.0	<del>                                     </del>		loose, reddish brown, dry				
70.0		<del>                                     </del>					
12.0	<del> </del>						
12.0	<del> </del>						
	<u> </u>						
14.0	<u> </u>						
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16.0	<u> </u>						
18.0							
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	1	odor					
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26.0	300						
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	<del> </del>		Caliche: hard, tan, dry		}		
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32.0	ļ						
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34.0			Silty sand partially cemented; tan, firm,				
	566	no	dry		}		
36.0		odor	l any				
38.0							
					1		
40.0	645	no					
70.0	040						
40.0	<del> </del>	odor					
42.0	<del> </del>	<b> </b>	Silty sand: loose, tan, dry				
	ļ	ļ					
44.0							
	314	no		Water To			
46.0	185	odor		[78 187 TA	lab = 192 ppm Cl		
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 01/05/04
Reporting Date: 01/06/04
Project Number: NOT GIVEN

Project Name: EME
Project Location: H-29

Analysis Date: 01/06/04 Sampling Date: 12/30/03 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

CIT LAB NUMBER SAMPLE ID (mg/Kg)

H8317-1	SOIL BORE 46' BGS	192
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent Diff	ference	7.0

METHOD: Standard Methods 4500-Cl'B

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

hemist

Date

# ≰ARDINAL LABORATORIES, INC.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603	101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020	(505) 393-2326 Fax (505) 393-2476

roject Manager: Kristin Facris  Address: 120 1 Kristin Facris							BILL TO ANALYSIS REQUEST																		
roject Manage	Kristin Fo	uris						F	.O.	#:				Γ	T										
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Lab I.D.	Sample I.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	CRUDE OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlock	1011										
H8317-1	Soil Bore 4	6 400	6	1		K				I	L	IZJOOJ	1030												
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livered By: (Circle One)						(ED BY: Sals)																			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

174' GW State LANDOWNER ETGI Jet Konfiniel Neport Vertical 14' North j' at crater SITE EXCAVATION INFORMATION Source DATE DEPTH TPH SOIL COMPOSITION CL. PID Brun Sand 10.21-03 5-80 caticle Light Brown Sand 645 5-80 7 500 467 4000 507 10 11 689 12 890 00 لا بر 1263 0,0 11 1332

Jary Hal



### ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

# VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO.	DC N 6	7616
MODEL NO:	PUM	1012
		_

**CALIBRATION GAS** GAS COMPOSITION: ISOBUTYLENE

100 PPM

**BALANCE** 

LOT NO: 6795 1

EXP. DATE:

FILL DATE: 10-01-03 ACCURACY:

SERIAL NO: 103999

METER READING

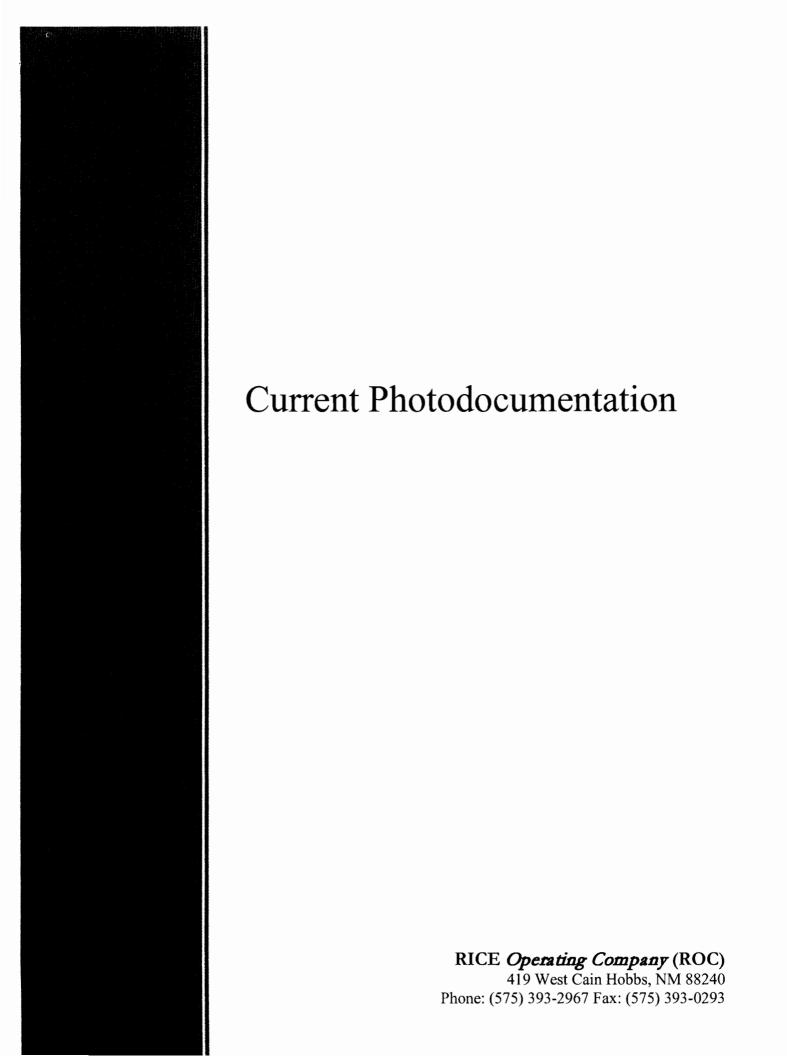
ACCURACY: /00.7

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EMÉ	14-29	H	29	215	36 E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
Vert 14			
Vert 14 12' 13' 14'	0.0		
/31	0.0		
14	0.0		
	٠.		

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

Long Start	Field teck	10.01.00
Signature	Title	Date



EME H-29 (1R427-48) Unit Letter H, Section 9, T21S, R36E



Facing west 7/16/2013



Facing north 7/16/2013