1R-427-103

## APPROVALS

# YEAR(S):



#### Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Monday, April 01, 2013 2:57 PM
То:	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)</kjones@riceswd.com>
Subject:	Remediation Plan (1R427-103) Termination - ROC EME Arco "F" DE Site

#### RE: Termination Request for the Rice Operating Company's EME Arco "F" DE Site Unit Letter F, Section 19, T21S, R37E, NMPM, Lea County, New Mexico Remediation Plan (1R427-103) 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 March 18, 2013 (received March 21, 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 (1R427-103) 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

## RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

#### CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 9293

#### March 18, 2013

£4

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 RECEIVED

MAR 21 2013

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Termination Request EME Arco "F" DE (1R427-103): UL/F, Sec. 19, T21S, R37E 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 2001, ROC initiated work on the former Arco "F" DE junction box. The site is located in UL/F, Sec. 19, T21S, R37E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 217 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 12x10x12 ft deep excavation. Each sample was field titrated for chlorides, resulting in slightly elevated chloride concentrations. Representative samples were collected from the excavation walls and excavation bottom and sent to a commercial laboratory for analysis. The sidewall sample resulted in a chloride concentration of 178 mg/kg, a gasoline range organics (GRO) concentration below detectable limits and a diesel range organics (DRO) of 770 mg/kg. The sample was also analyzed for BTEX, resulting in a concentration of 0.004 mg/kg for benzene, 0.007 mg/kg for toluene and ethyl benzene and 0.026 mg/kg for total xylenes. The bottom composite sample resulted in a chloride concentration of 188 mg/kg, a GRO concentration below detectable limits and a diesel range organics DRO of 188 mg/kg. The sample was also analyzed for BTEX, resulting in a concentration below detectable limits for benzene and toluene, 0.007 mg/kg for ethyl benzene and 0.009 mg/kg for total xylenes. A total for 42 cubic yards of excavated soil was properly disposed of at a NMOCD facility. A compacted clay liner was installed and the

excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. Since the site is located next to a lease road, seeding is not required. A new, watertight junction was installed at the site.

The junction box site location map, final report, laboratory analysis, disposal manifest 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.

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Sincerely, RICE Operating Company

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





## 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 LOC/	ATION						
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY			ENSIONS	the second se	
EME	ARCO "F" DE	F	19	21S	37E	LEA	Length 10		Width 8	Depth 5	
LAND TYPE: E	BLM8	STATE	XFEE L/	ANDOWNER		L	OTH	IER			
Depth to Grour	ndwater	217	feet	NMOCE	SITE ASSI	ESSMENT	RANKIN	g sco	ORE:	0	
Date Started	01/25/2	2001	Date Co	ompleted	01/29/2001		) Witness		N	0	
Soil Excavated	60	cubic ya	rds Ex	cavation Le	ngth 12	Wid	th <u>10</u>		Depth	12	feet
Soil Disposed	42	cubic ya	irds C	Offsite Facility	SUND	ANCE	Loca	tion	EUN	IICE, NM	<u></u>
FINAL ANALY	TICAL R	ESULT	S: Samp	le Date	01/29/2	2001	Sample	e Dept		12'	
P	rocure 5-poin BTEX and C		poratory tes	of bottom and at results com s pursuant to	pleted by us	ing an app					· .
Sample	Benzene			Ethyl Benzene	Total Xyler		GRO		DRO	Chlori	
Location	mg/kg		g/kg	mg/kg	mg/kg		ng/kg		ng/kg	mg/i	
SIDEWALLS BOTTOM	0.004		.002	0.007	0.026		<50 <50		770 188	17	
General Descriptio			······	vertical and late		elow	СН	LORI	DE FIELD	TESTS	
NMOCD guidelines. In						[	LOCATIO		DEPTH	4 m	ng/kg
A water tight junction t		· · · · · · · · · · · · · · · · · · ·			u anomio ovity		SIDEWAL		6'		240
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### I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE	Øecember-11, 2001	PRINTED NAME	D. E. Anderson
SIGNATURE	Mullinon	TITLE	Project Leader - Environmental



PHONE (915) 873-7001 · 2111 BEECHWOOD · ABILENE, TX 79803

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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JAMES STURGILL 122 W. TAYLOR HOBBS, NM 88240 FAX TO;

Receiving Date: 01/29/01 Reporting Date: 01/30/01 Project Number: ARCO "F" DE Project Name: ARCO "F" SIDES AND BOTTOM Project Location: UF SECTION 19 T21 R36 Sampling Date: 01/29/01 Sample Type: SOIL Sample Condition; COOL & INTACT Sample Received By: AH Analyzed By; BC/AH

(С<sub>6</sub>-С<sub>10</sub>) (> (mg/Kg)

GRO

(>C<sub>10</sub>-C<sub>28</sub>) CI\* (mg/Kg) (mg/Kg)

DRÒ

LAB NUMBER SAMPLE ID

ANALYSIS D	DATE	01/29/01	01/29/01	01/30/01
H5561-1	ARCO "F" DE SIDES	<50	770	178
H5561-2	ARCO "F" DE BOTTOM	<50	188	1212
Quality Cont		760	761	1051
True Value C		800	800	1000
% Recovery		95.0	95.1	105
<b>Relative</b> Per	cent Difference	3,3	0.2	3.9

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB \*Analyses performed on 1:4 w:v aqueous extracts.

PLEACESSEL Analysis and Damages. Cardinal's liability and client's exclusive remady for any claim sinsing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including tross for negligence and any other cause whatspever shall be deemed walved unless made in writing and raceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal to liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries, atfiliates or auccessors 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.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JAMES STURGILL 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 01/29/01 Reporting Date: 02/01/01 Project Number: ARCO "F" DE Project Name: ARCO "F" SIDES AND BOTTOM Project Location: UF SECTION 19 T21 R36 Sampling Date: 01/29/01 Sample Type: SOIL Sample Condition: COOL, INTACT Sample Received By: AH Analyzed By: JA

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DAT	E	02/01/01	02/01/01	02/01/01	02/01/01
H5561-1	ARCO "F" DE SIDES	0.004	0.007	0.007	0.026
H5561-2	ARCO "F" DE BOTTOM	<0.002	<0.002	0.007	0.009
Quality Control		0.097	0.106	0.095	0.290
True Value QC		0.100	0.100	0.100	0.300
% Accuracy	· ·	97	106	95	97
<b>Relative</b> Percen	t Difference	3.1	0.7	3.0	2.4
METLIOD, EDA	CIN 040 0000 5000 0 04-		· · · · · · · · · · · · · · · · · · ·		

METHOD: EPA SW 846-8020, 5030, Gas Chromatography



Chemist

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. H5561SHOBBSRICEBTEXONLY

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

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	Sundance Services, Inc. P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	112 G701
	LEASE OPERATOR/SHIPPER/COMPANY:	
	LEASE NAME:	
	TRANSPORTER COMPANY:	TIME: AM/I
	DATE: VEHICLE NO.: DRIV	ER NO.:
· ·	CHARGE TO:	
	TYPE OF MATERIAL	
		Completion Fluids C-117 No.:
	Description:	
	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MA' JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WA	
	HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH ANI AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFO PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	RECOVERY ACT OF 1976, AS O SAF. CODE § 361.001, et seq., ORDED DRILLING FLUIDS, ON, DEVELOPMENT OR
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		Sundance Services, Inc. P.O. Box 1737 ★ Eunice, NM 88231 (505) 394-2511 (505) 394-2511
		LEASE OPERATOR/SHIPPER/COMPANY:
		LEASE NAME: THE FEE ENE
		TRANSPORTER COMPANY:
		DATE: / VEHICLE NO.: // DRIVER NO.:
		CHARGE TO:
·	1	TYPE OF MATERIAL
		[] Production Water  [] Drilling Fluids  [] Completion Fluids    [] Tank Bottoms  -[:] Contaminated soil  [] C-117 No.:    [] Other Material:  [/] BS&W Content:
		Description:
		VOLUME OF MATERIAL [ ] BBLS: [] YARD: []
		AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.
		ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.' FACILITY FOR DISPOSAL.
•••		THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. Thi will certify that no additional materials were added to this load, and that the material was delivered without incident.
		DRIVER:
	:	FACILITY REPRESENTATIVE:

,

¥	
	Sundance Services, Inc. P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
	LEASE OPERATOR/SHIPPER/COMPANY:
	LEASE NAME ARCOF
ĺ	TRANSPORTER COMPANY:
	DATE: / VEHICLE NO.: DRIVER NO.:
	CHARGE TO:
	TYPE OF MATERIAL
:	[] Production Water  [] Drilling Fluids  [] Completion Fluids    [] Tank Bottoms  [] Contaminated soil  [] C-117 No.:    [] Other Material:  [] BS&W Content:
· · ·	Description:
	ALCO OT
	VOLUME OF MATERIAL [] BBLS : [] YARD : []
	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
	DRIVER:
	(SIGNATURE) White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter

• , q <sup>(1</sup>) 1, <sup>6</sup>2, 6 , <sub>1</sub>, <sup>2</sup>34 (2.2)

## Current Photodocumentation

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

#### EME Arco "F" DE

UL/F, Section 19, T21S, R37E



Facing north

3/5/2013



Facing east

3/5/2013