

1R - 427-102

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, April 10, 2013 1:58 PM
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 (1R427-102) Termination - ROC EME M-3-1A Site

**RE: Termination Request
for the Rice Operating Company's
EME M-3-1A Site
Unit Letter M, Section 3, T21S, R36E, NMPM, Lea County, New Mexico
Remediation Plan (1R427-102) 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 27, 2013 (received April 1, 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 (1R427-102) 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 88249

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

RECEIVED OGD

2013 APR -1 P 2:00

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 9316

March 27, 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 M-3-1A (1R427-102): UL/M, Sec. 3, 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 2001, ROC initiated work on the former M-3-1A junction box. The site is located in UL/M, Sec. 3, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 129 +/- feet. To investigate the depth of chloride presence, a soil bore was initiated on September 18, 2001. The boring was advanced to a total depth of 29 ft with soil samples collected at regular intervals, resulting in a chloride concentration that decreased with depth. The 29 ft sample was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 392 mg/kg and concentrations of GRO, DRO and BTEX below detectable limits.

Based on the data collected from the boring, the site was delineated using a backhoe to collect soil samples at regular intervals, creating a 22x15x10 ft deep excavation. Each sample was field titrated for chlorides. Representative samples were collected from the excavation sidewalls and bottom and sent to a commercial laboratory for analysis. The sidewalls sample resulted in a chloride concentration of 3,300 mg/kg, a gasoline range organics (GRO) concentration below detectable limits and a diesel range organics (DRO) concentration of 16 mg/kg. The bottom composite sample resulted in a chloride concentration of 3,250 mg/kg and GRO and DRO concentrations below detectable limits.

Both samples were also analyzed for BTEX, resulting in a concentration below detectable limits throughout. A total for 48 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, soil bore log, disposal manifests 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.

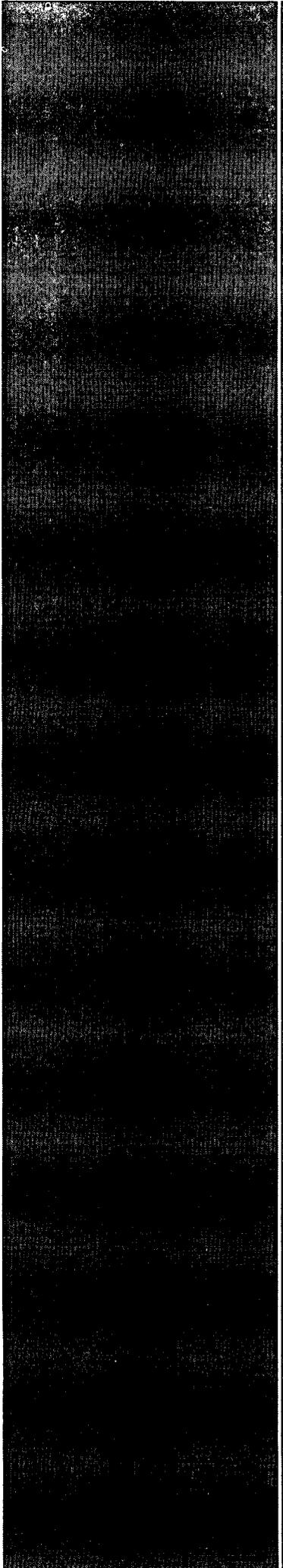
Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

A handwritten signature in black ink, appearing to read 'H. Conder', with a long horizontal flourish extending to the right.

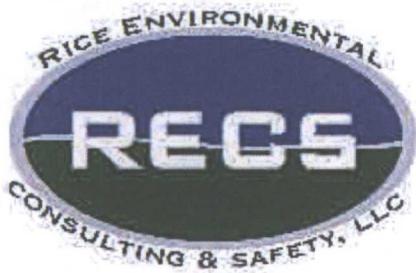
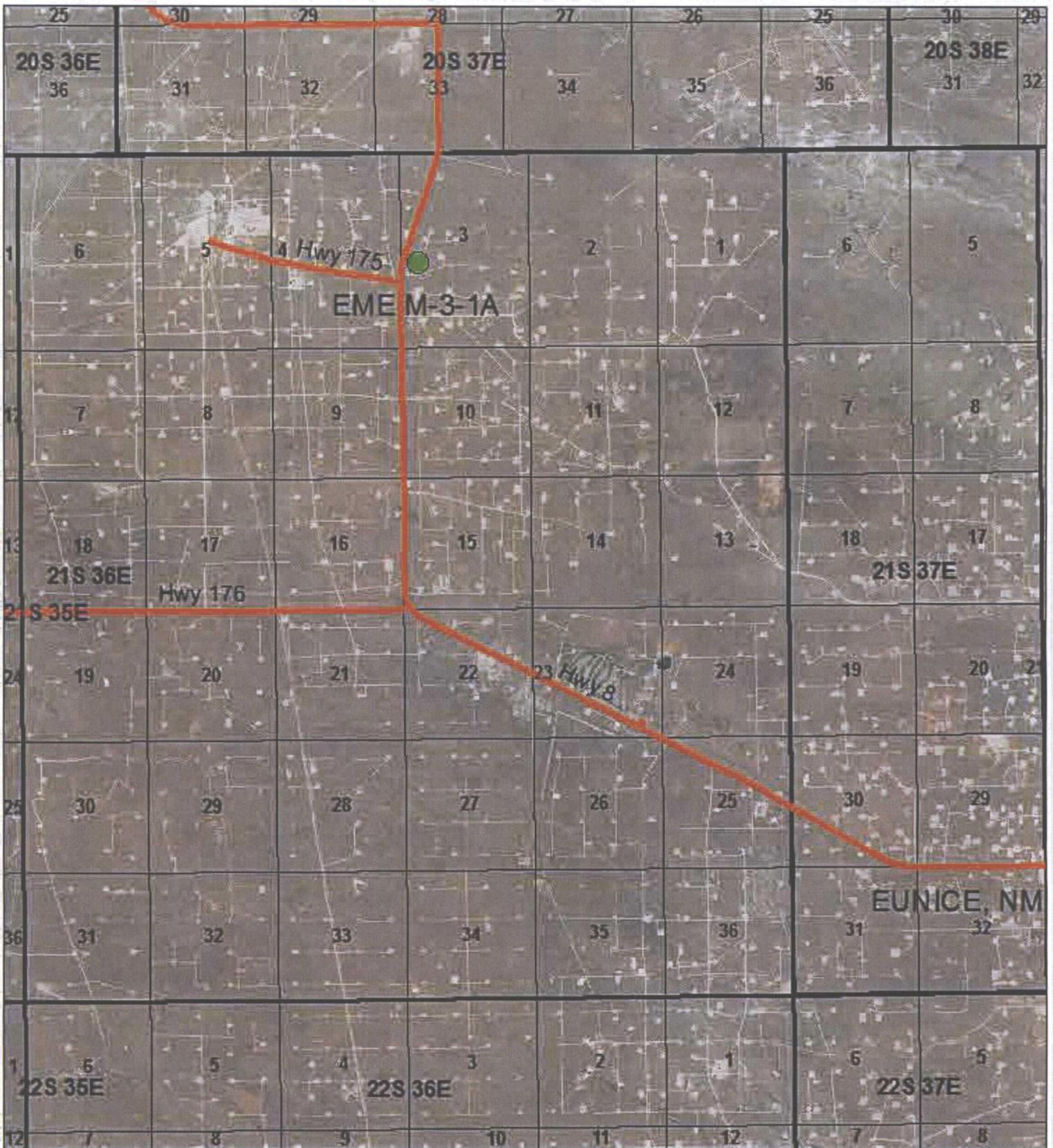
Hack Conder
Environmental Manager

enclosures



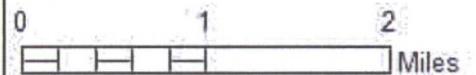
Site Location Map

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

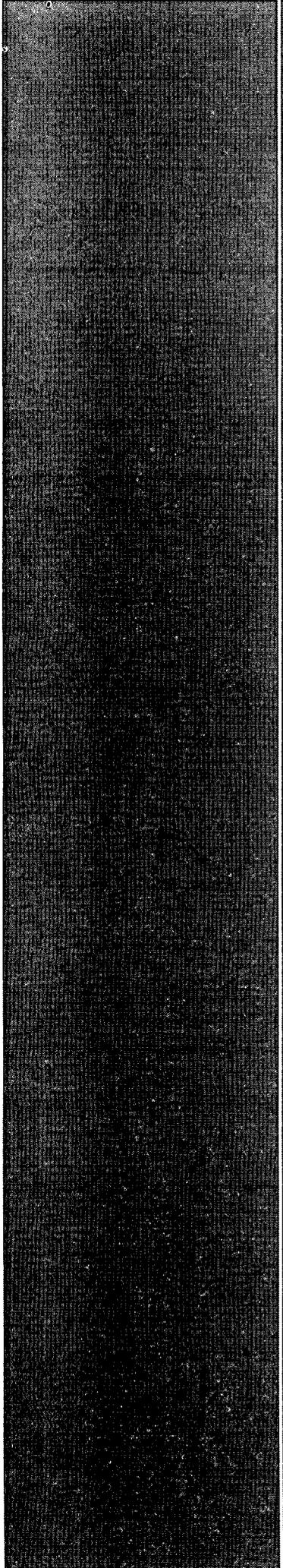


**EME M-3-1A
(1R427-102)**

Unit Letter M, Section 3,
T21S, R36E
Lea County, NM



Drawing date: 3/19/13
Drafted by: Traci Jennings



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		
							Length	Width	Depth
EME	M-3-1A	M	3	21S	36E	LEA	10	10	5

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 129 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 08/13/2001 Date Completed 10/22/2001 OCD Witness NO

Soil Excavated 122 cubic yards Excavation Length 22 Width 15 Depth 10 feet

Soil Disposed 48 cubic yards Offsite Facility SUNDANCE Location EUNICE, NM

FINAL ANALYTICAL RESULTS: Sample Date 10/22/2001 Sample Depth 10'

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	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.025	<0.025	<0.025	<0.025	<10	16	3300
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10	<10	3250
Boring @ 29'	<0.025	<0.025	<0.025	<0.025	<10	<10	392

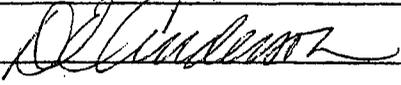
General Description of Remedial Action: The site was delineated vertically and laterally finding chlorides above acceptable levels. A soil boring was completed and demonstrated impact probably stopped before reaching ground water. Chlorides declined from 2800 ppm at 10' bgs to 392 ppm at 29' bgs with no indications of TPH. The high impacted soil was removed to a permitted disposal facility and fresh soil was blended for use as backfill. A compacted clay barrier and water tight junction box was installed and backfilled.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	8'	3000
BOTTOM	10'	2700
Vertical Trench	14'	7500
Soil Boring	5'	1098
	10'	2836
	15'	1397
	20'	1893
	25'	459
	29'	392

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

DATE November 30, 2001 PRINTED NAME D. E. Anderson

SIGNATURE  TITLE Project Leader - Environmental

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING COMPANY
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX: 505-397-1471

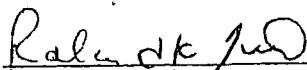
Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project Name: EME Junction Box Upgrades
Project #: M-3-1A
Project Location: Lea County, NM
PO#: 716

Sampling Date: 10/22/01
Receiving Date: 10/31/01
Analysis Date: 11/01/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101905-01	Wall Composite	<0.025	<0.025	<0.025	<0.025	<0.025
0101905-02	Bottom Composite	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL	0.091	0.091	0.086	0.172	0.085
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	91	91	86	86	85
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	0.161	0.328	0.308	1.25	0.184
SPIKE	0.109	0.113	0.113	0.252	0.107
SPIKE DUP	0.105	0.108	0.105	0.245	0.098
%EA	103	100	101	101	100
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	3.96	5.13	8.25	3.02	9.42

METHODS: EPA SW 846-8021B, 5030


Ralanda K. Tuttle

11-08-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING COMPANY
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX: 505-397-1471

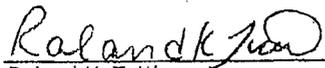
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Sample Condition: Intact/ Iced/ 4.0 deg C
Project Name: EME Junction Box Upgrades
Project #: M-3-1A
Project Location: Lea County, NM
PO#: 716

Sampling Date: 10/22/01
Receiving Date: 10/31/01
Analysis Date: 11/08/01

ELT#	Field Code	Chloride mg/kg
0101905-01	Wall Composite	3300
0101905-02	Bottom Composite	3250

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	1000
ORIGINAL SAMPLE	284
SPIKE	1205
SPIKE DUP	1240
% EXTRACTION ACCURACY	96
BLANK	<5.00
RPD	2.85

METHODS: SW 846-9253


Roland K. Tuttle

11-08-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING COMPANY
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX: 505-397-1471

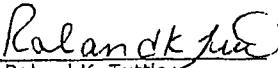
Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project Name: EME Junction Box Upgrades
Project #: M-3-1A
Project Location: Lea County, NM

Sampling Date: 10/22/01
Receiving Date: 10/31/01
Analysis Date: 11/01/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0101905-01	Wall Composite	<10	16
0101905-02	Bottom Composite	<10	<10

QUALITY CONTROL	480	515
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	96	103
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	16
SPIKE	500	542
SPIKE DUP	490	529
% EXTRACTION ACCURACY	103	108
BLANK	<10	<10
RPD	2.02	2.43

Methods: SW 846-8015M


Roland K. Tuttle

11-08-01
Date

file

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING CO.
ATTN: MR. DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX: 505-397-1471

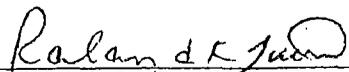
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3 deg C
Project Name: EME Box Upgrade
Project #: ~~ME-1A~~
Project Location: Lea County
PO#: 692

Sampling Date: 09/18/01
Receiving Date: 09/24/01
Analysis Date: 09/25/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101624-01	29' Soil Boring	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL	0.100	0.100	0.097	0.199	0.092
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	100	100	97	100	92
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	0.039	<0.025
SPIKE	0.104	0.101	0.100	0.204	0.095
SPIKE DUP	0.101	0.097	0.097	0.198	0.093
%EA	104	101	100	101	95
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	2.93	4.04	3.04	3.16	2.13

METHODS: EPA SW 846-8021B ,5030


Ralanda K. Tuttle

9-27-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING CO.
ATTN: MR. DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX: 505-397-1471

Sample Type: Soil
Sample Condition: Intact/ Iced/ 3 deg C
Project Name: EME Box Upgrade
Project #: M-3-1A
Project Location: Lea County
PO#: 692

Sampling Date: 09/18/01
Receiving Date: 09/24/01
Analysis Date: 09/25/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0101624-01	29' Soil Boring	<10	<10

QUALITY CONTROL	460	480
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	92	96
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	501	508
SPIKE DUP	504	502
% EXTRACTION ACCURACY	105	107
BLANK	<10	<10
RPD	0.95	1.89

Methods: SW 846-8015M


Raland K. Tuttle

9-27-01
Date

ENVIRONMENTAL LAB OF , INC.

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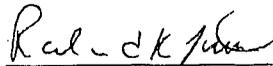
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3 deg C
Project Name: EME Box Upgrade
Project #: M-3-1A
Project Location: Lea County
PO#: 692

Sampling Date: 09/18/01
Receiving Date: 09/24/01
Analysis Date: 09/26/01

ELT#	FIELD CODE	Chloride mg/kg
0101624-01	29' Soil Boring	392

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	526
ORIGINAL SAMPLE	392
SPIKE	933
SPIKE DUP	924
% EXTRACTION ACCURACY	101
BLANK	<5.00
RPD	0.97

Methods: SW 846-9253


Raland K. Tuttle

9-27-01
Date

DRILLING LOG		Site Name/Location			Logged by: DEA
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471		Jct. Box M-3-1A 3-T21S-R36E EME SWD System Lea County, NM			Construction: Plugged boring w/ 26' bentonite, water & backfill
Well No:	N/A	Date Drilled:	9/18/01	Driller:	Adkins
Well Depth:	N/A	Boring Depth:	28'	Well Material:	N/A
Casing Length:	N/A	Boring Diameter:	2.5"	Casing Size:	N/A
Screen Length:	N/A	Drilling Method:	Air Rotary	Slot Size:	N/A

TEST					
DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	(ppm)	REMARKS	Boring
0	Ground surface		CF		
1	Sand	Grab			
2					
3					
4					
5	Sand		1098		
6					
7					
8	Dry caliche rock				
9					
10	Dry caliche		2836		
11					
12					
13					
14					
15	Dry caliche		1397		
16					
17					
18					
19					
20	Sandstone		1893		
21					
22	Dry sandy caliche		1063		
23					
24					
25	Dry sand		459		
26					
27					
28	Dry sand				
29		Lab	392	No TPH	

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NO 12196

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME: Job # 1 AFE-H-192

TRANSPORTER COMPANY:

TIME: _____

AM/PM

DATE: 7-7-01

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:

VOLUME OF MATERIAL BBLs. _____ :

YARD 12 :

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)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter

Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NC 42131

LEASE OPERATOR/SHIPPER/COMPANY: _____

LEASE NAME: ~~_____~~ ~~_____~~ ~~_____~~ AFE-H-692

TRANSPORTER COMPANY: _____ TIME: _____ AM/PM

DATE: _____ VEHICLE NO.: _____ DRIVER NO.: _____

CHARGE TO: _____

TYPE OF MATERIAL

- | | | |
|---|---|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated soil | <input type="checkbox"/> C-117 No.: _____ |
| <input type="checkbox"/> Other Material: | <input type="checkbox"/> BS&W Content: _____ | |

Description: _____

VOLUME OF MATERIAL BBLs. _____ : YARD 12 : _____

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.

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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)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NE
42176

LEASE OPERATOR/SHIPPER/COMPANY: Rice Luis

LEASE NAME: ~~XXXXXXXXXX~~ ACE-A-692

TRANSPORTER COMPANY: XXXXXXXXXX TIME: _____ AM/PM

DATE: 7/15/95 VEHICLE NO.: 1 DRIVER NO.:

CHARGE TO: Rice

TYPE OF MATERIAL SECS 7-15-95

- | | | |
|---|---|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms | <input checked="" type="checkbox"/> Contaminated soil | <input type="checkbox"/> C-117 No.: _____ |
| <input type="checkbox"/> Other Material: | <input type="checkbox"/> BS&W Content: _____ | |

Description: soil

VOLUME OF MATERIAL BBLs. _____ : YARD 10 : _____

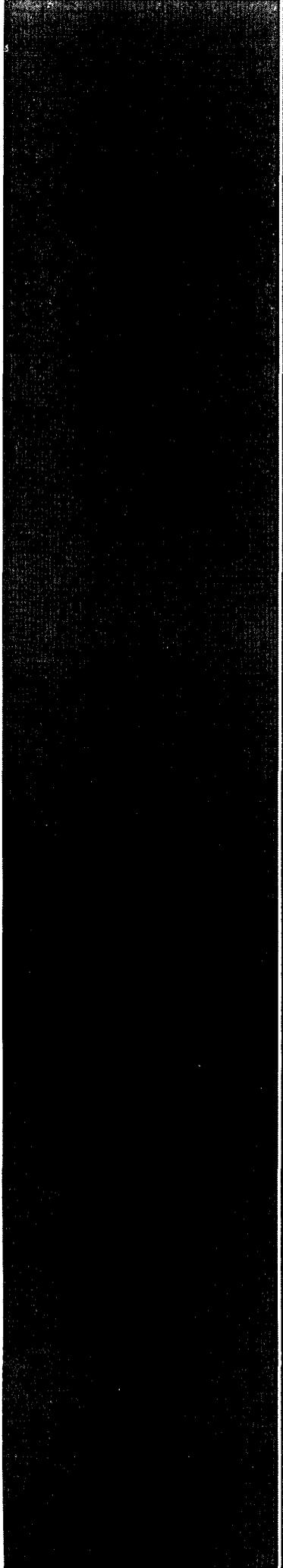
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DRIVER: [Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)



Current Photodocumentation

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

EME Jct. M-3-1A
UL/M, Section 3, T21S, R36E



Facing south

3/13/2013



Facing west

3/13/2013