

1R - 427-207

# REPORTS

DATE:

1-22-07

EME M-32

IR-427-207

# FINAL REPORT

RECEIVED

APR - 4 2007

Environmental Bureau  
Oil Conservation Division

# CLOSURE

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	M-32 vent	M	32	21S	36E	Lea	no box-jct. eliminated		

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

Depth to Groundwater 200+ feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 4/27/2006 Date Completed 9/11/2006 NMOCD Witness no

Soil Excavated 311 cubic yards Excavation Length 28 Width 25 Depth 12 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 6/30/2006, 10/18/2006 Sample Depth 12, 50 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. 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 (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.9	<10.0	<10.0	816
BOTTOM COMP.	0.1	<10.0	<10.0	1140
BACKFILL	0.1	<10.0	<10.0	624
SOIL BORE (10 ft S) @ 50 ft	0.0	XXX	XXX	32

LOCATION	DEPTH (ft)	ppm
10 ft SOUTH of jct. (backhoe)	7	1757
	8	1394
	9	1173
	10	666
	11	1020
	12	1158
Soil boring 10 SOUTH of jct.	15	1197
	20	873
	25	594
	30	278
	35	167
	40	144
	45	143
	50	94
4-wall comp.	n/a	837
bottom comp.	12	754
backfill comp.	n/a	606

**General Description of Remedial Action:**

This junction box site was addressed with the pipeline replacement/upgrade program. This junction was eliminated and the box was removed. Soil samples were collected at regular intervals using a backhoe to create a 28 x 25 x 12-ft-deep excavation. Chloride field tests and PID readings were conducted on each sample. Although PID readings were very low throughout, more chloride/depth characterization was warranted. On 10/18/2006, a soil boring was initiated 10 ft south of the former junction and advanced to a depth of 50 ft. Soil samples were collected every 5 ft of depth and chloride tests revealed a conclusive trend of decline, indicative of non-saturated historical vadose conditions. The borehole was plugged with bentonite clay. The excavated soil was blended on site and then backfilled into the hole and contoured to the surrounding surface. The disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate. With groundwater located at more than 200 ft BGS, these activities are not threatening to groundwater, human health, or the environment.

enclosures: photos, lab results, PID field screenings, chloride graph, boring diagram

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

SITE SUPERVISOR Roy Rascon SIGNATURE Roy R. Rascon COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope  
DATE 1/22/2007 TITLE Project Scientist

# EME M-32 vent



undisturbed junction box

1/28/2005



delineation & excavation

4/27/2006



seeding disturbed area after backfilling

9/19/2006



soil boring 10 ft south of former junction

10/18/2006

# HARRISON & COOPER, INC.

7414 85<sup>th</sup> Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

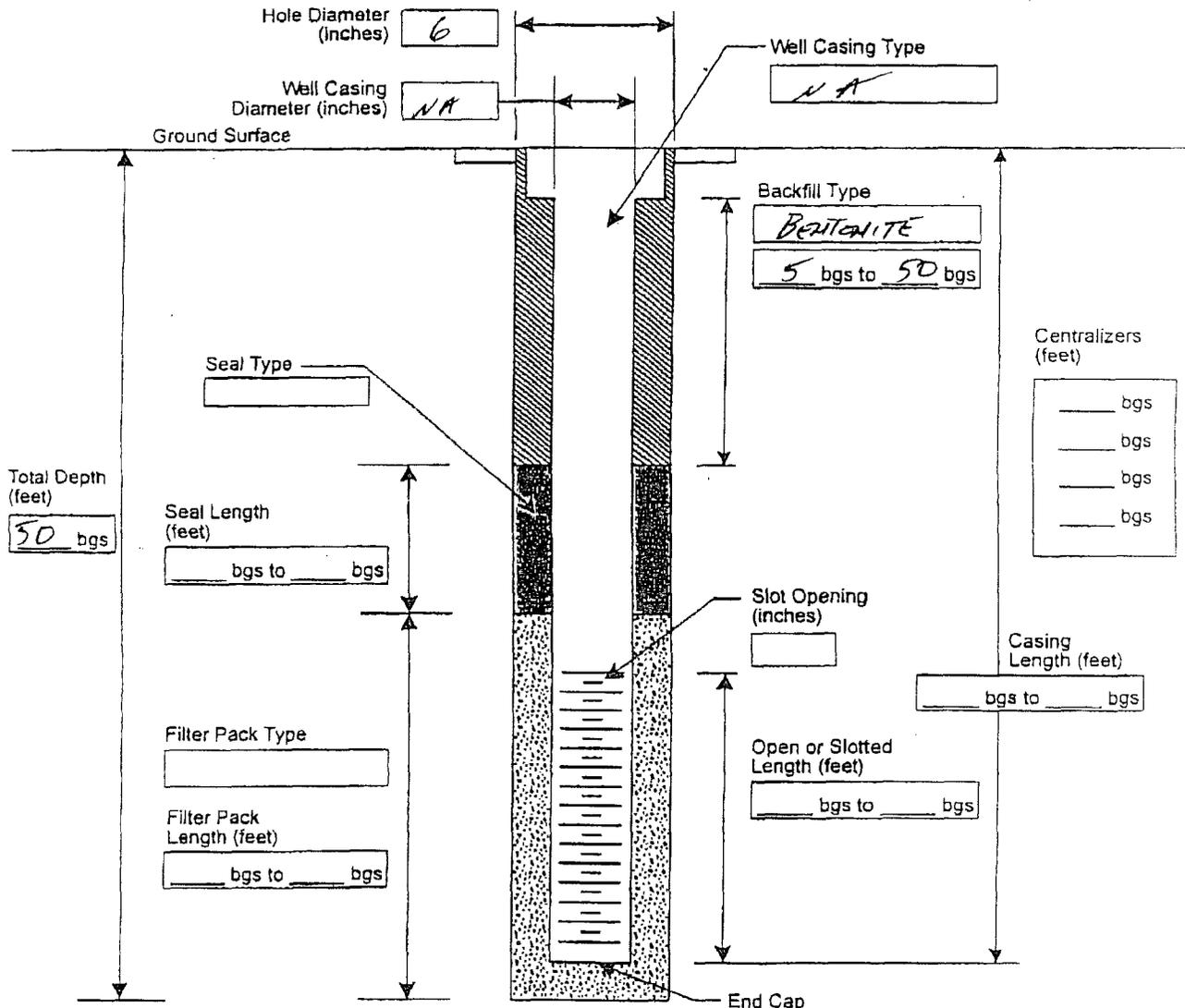
Drilling & Pump Professionals

Ph: (806) 866-4026

Fax: (806) 866-4044

Email: [harrisoncooperinc@msn.com](mailto:harrisoncooperinc@msn.com)

Client RICE Project No. \_\_\_\_\_  
 Well No. SD Site EME M-32 Date Installed 10/18/06  
 Formation of Completion \_\_\_\_\_  
 Personnel G. BARNETT Driller C. HARRISON



Comments 50' SOIL BORING PPA w/ BENTONITE





# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
 (325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Kee Operating Company</u>		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: <u>Kristin FarnsPope</u>		Company:																	
Address: <u>182 W Taylor</u>		Attn:																	
City: <u>Hobbs</u>		Address:																	
State: <u>NM</u> Zip: <u>88240</u>		City:																	
Phone #: <u>393-9124</u> Fax #: <u>397-1471</u>		State:																	
Project #:		Zip:																	
Project Name:		Project Owner:																	
Project Location: <u>EME Vent M-32</u>		FAX #:																	
Sampler Name: <u>Melanie FRANKS</u>		PRESERV.																	
FOR LAB USE ONLY		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
	<u>HL98-1 SB 1050 Bgs</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>10/18/06</u>	<u>11:16</u>						
		# CONTAINERS																	

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 the client for the analysis. 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 analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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 listed reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished By: Melanie Franko Date: 10/20/06 Time: 7:40 Received By: HL98-1 SB 1050 Bgs

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_

Sample Condition Intact?  Yes  No Checked By: MF

Phone Result:  Yes  No

Fax Result:  Yes  No

REMARKS:

\* Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

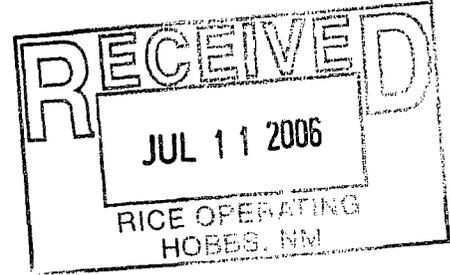


# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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



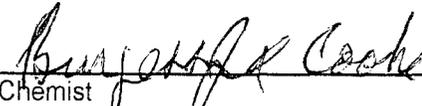
Receiving Date: 06/30/06  
Reporting Date: 07/06/06  
Project Number: NOT GIVEN  
Project Name: EME VENT M-32  
Project Location: NOT GIVEN

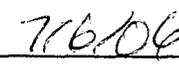
Sampling Date: 06/30/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		07/05/06	07/05/06	07/03/06
H11310-1	BOTTOM 5 PT. @ 12	<10.0	<10.0	1140
H11310-2	4 WALL COMP. 28x25	<10.0	<10.0	816
H11310-3	BACKFILL BLEND	<10.0	<10.0	624
Quality Control		763	750	990
True Value QC		800	800	1000
% Recovery		95.3	93.8	99.0
Relative Percent Difference		5.5	6.4	1.0

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

\*Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

  
Date

H11310

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.



# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240  
Phone: (505) 393-9174 Fax: (505) 397-1471

## VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.  MODEL: PGM 761S  
 MODEL  MODEL: PGM 761S  
 NO.  MODEL: PGM 7600  
 LOT NO: 05-2992  
 FILL DATE: 11-1-05  
 ACCURACY: +/- 2%

SERIAL NO: 104412  
 SERIAL NO: 104490  
 SERIAL NO: 110-12383  
 GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE  
 EXP. DATE: 5-1-07  
 METER READING ACCURACY: 100.2

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Vent m-32	M	32	T-21-S	R-36-E

5 Point Bottom Samples  
 5 Point Bottom Composit

SAMPLE	PID RESULTS	SAMPLE	PID RESULTS
1	0.0		
2	0.0		
3	0.0		
4	0.1		
5	0.1		
12 ft 5 Point Bottom Composit	0.1		

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

SIGNATURE: Darrell M. J. J. J.

DATE: 6-30-06

28' x 25' x 12'

FINAL

# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240  
Phone: (505) 393-9174 Fax: (505) 397-1471

## VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.  MODEL: PGM 761S  
MODEL  MODEL: PGM 761S  
NO.  MODEL: PGM 7600

SERIAL NO: 104412  
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ACCURACY: +/- 2%

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EXP. DATE: 5-1-07  
METER READING ACCURACY: 100.2

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Vent m-32	M	32	T-21-S	R-36-E

4 wall samples  
4 wall composit samples  
Backfill composit sample

SAMPLE	PID RESULTS	SAMPLE	PID RESULTS
West wall	0.0		
NOETH wall	0.0		
SOUTH wall	0.1		
EAST wall	0.2		
4 wall composit	0.9		
Backfill composit	0.1		

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

SIGNATURE: Darrell Mitchel

DATE: 6-30-06

# EME M-32 vent

unit 'M', Sec. 32, T21S, R36E

10 ft SOUTH of junction (soil boring)

Depth bgs (ft)	[Cl <sup>-</sup> ] mg/kg
15	1197
20	873
25	594
30	278
35	167
40	144
45	143
50*	32

\* lab analysis

Groundwater > 200 ft

