

1R - 427-210

REPORTS

DATE:

2006

1R-427-210

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	Amerada Hartman 'J' EOL	C	17	19S	37E	Lea	no box-jct. eliminated		

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

Depth to Groundwater 50 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 7/5/2006 Date Completed 8/22/2006 NMOCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 8/3/2006 Sample Depth 12 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH, BTEX, and chloride laboratory test results completed by using an approved laboratory 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
4-WALL COMP.	<0.005	<0.005	<0.005	<0.015	<10.0	375	208
BOTTOM COMP.	PID = 0.9 ppm				<10.0	<10.0	112
BACKFILL	PID = 69.3 ppm				<10.0	73.8	144

General Description of Remedial Action:

This junction was eliminated with the pipeline replacement/upgrade program. After the box was removed, the site was delineated and excavated using a backhoe to collect soil samples at regular intervals to produce a 30 x 30 x 12-ft-deep excavation. Chloride field tests were conducted on each sample and concentrations were very low and declined considerably with depth. VOCs were also measured using a PID and the delineation samples exhibited concentrations less than 100 ppm. However, 2 components of the 4-wall composite sample off the final excavation had concentrations greater than 100 ppm so this sample was analyzed for BTEX at a commercial laboratory. These results did not yield BTEX within detection limits. The excavated soil was blended on site and then backfilled into the excavation and contoured to the surrounding terrain. The remaining low concentration of TPH can be expected to naturally attenuate. A top dress of 108 yds³ of imported topsoil was placed on top of the backfilled area and seeded with a blend of native vegetation. The disturbed surface is expected to return to productive capacity at a normal rate.

enclosures: photos, lab results, PID field screenings, chloride graph, BTEX study summary

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
5 ft SOUTH of junction	1	529
	2	339
	3	290
	4	225
	5	173
	6	142
	7	145
	8	116
	9	83
	10	121
	11	119
	12	183
4-wall comp.	n/a	220
bottom comp.	12	225
backfill comp.	n/a	209

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

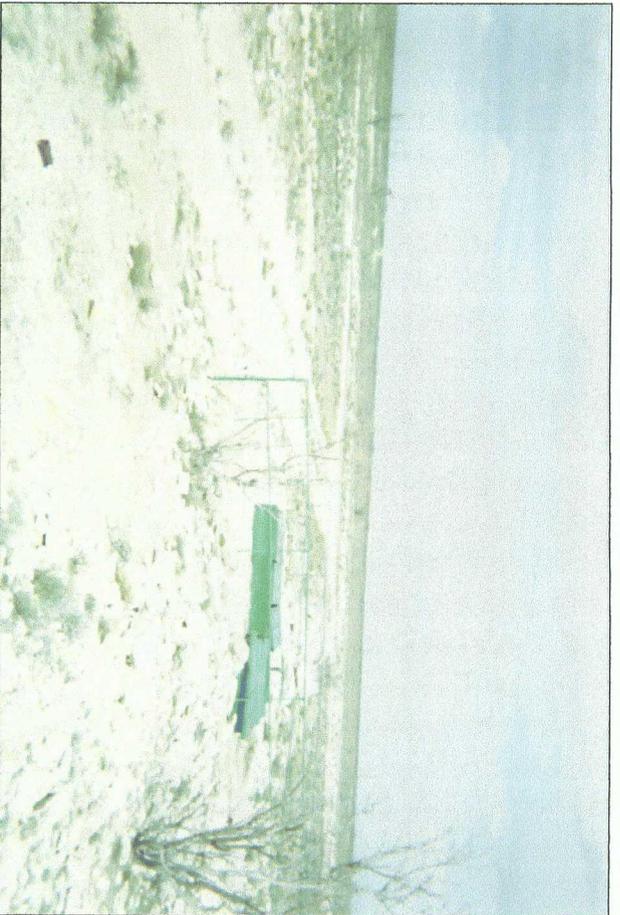
SITE SUPERVISOR Darnell Mitchell SIGNATURE Darnell Mitchell COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 12/29/2006 TITLE Project Scientist

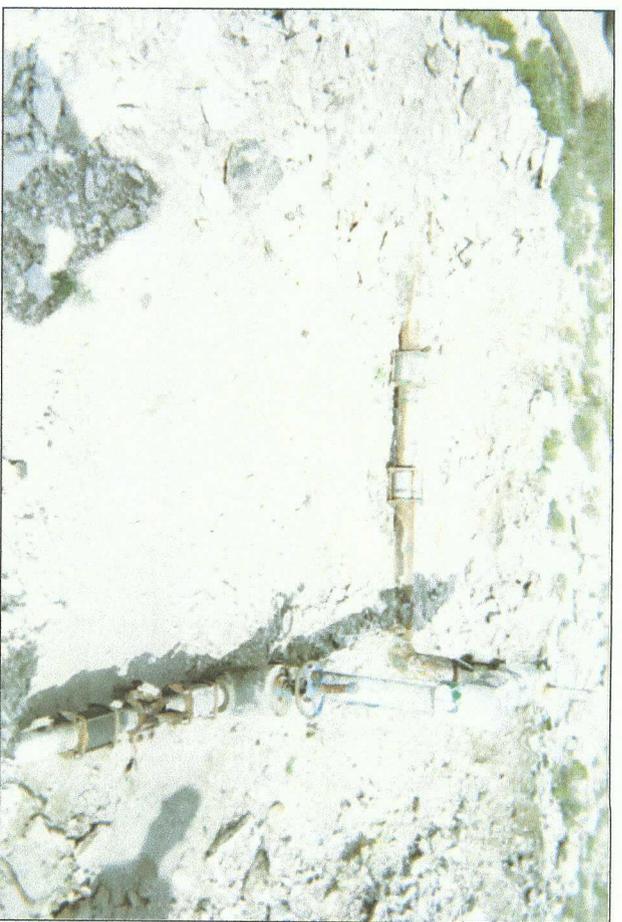
EMF Amerada Hartman 'J' FOI

unit 'C', Sec. 17, T19S, R37E



undisturbed junction box

1/6/2004



box removed; old plumbing



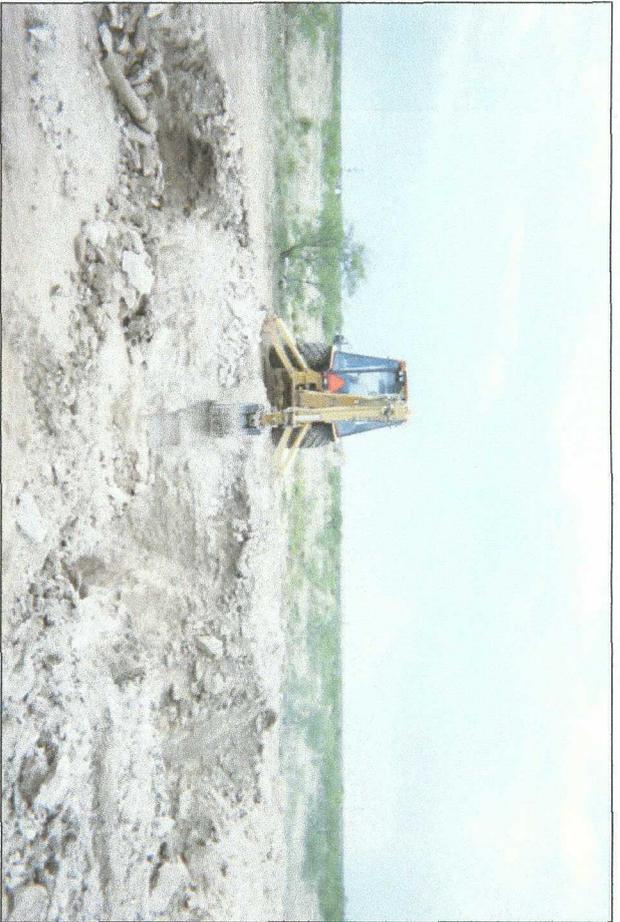
NORM decontaminated; box removed

11/2/2004



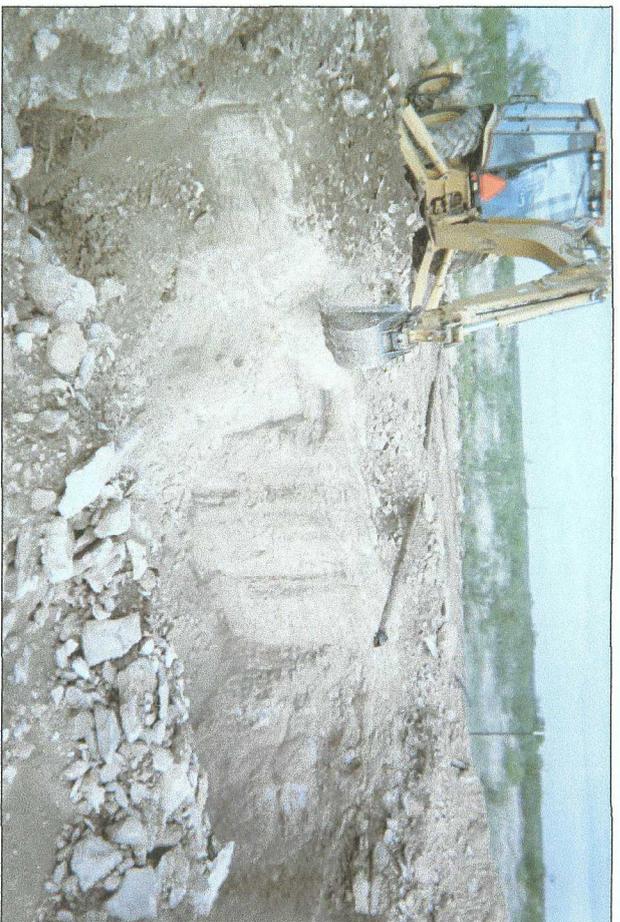
beginning excavation & delineation of box site

July 2006



delineation & excavation

July 2006

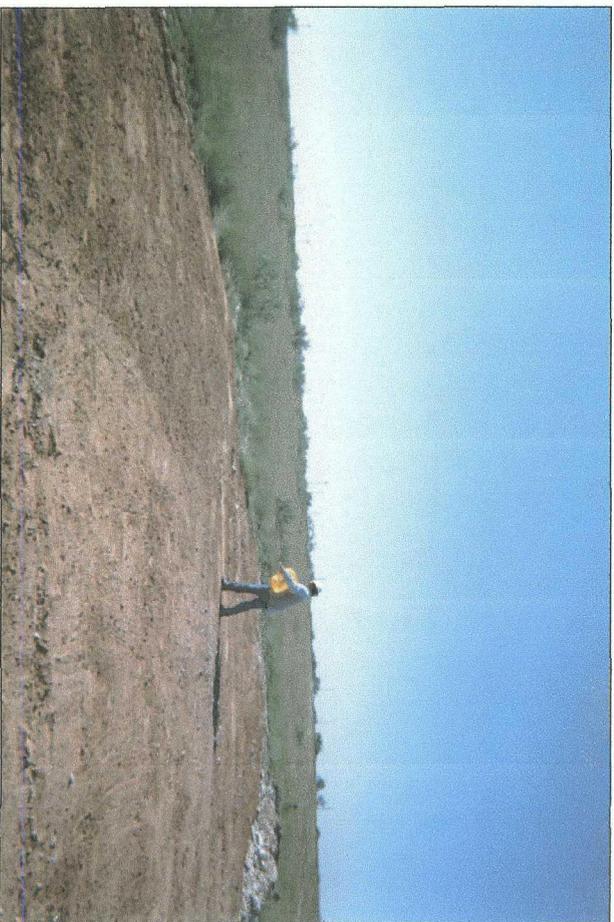


30 x 30 x 12-ft-deep excavation



backfilling excavation

August 2006



seeding backfilled site with imported topsoil

9/19/2006

2006 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME Date: 8/3/2006 Laboratory: Cardinal Laboratories
 Site: Amerada Hartman 'J' EOL Sampler: Darnell Mitchell

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
4-WALL COMPOSITE from 30 x 30 x 12 ft	NORTH wall	265	<0.005	<0.005	<0.005	<0.015
	SOUTH wall	715				
	EAST wall	133				
	WEST wall	71.6	LAB COMPOSITE (mg/kg)			
			<0.005	<0.005	<0.005	<0.015

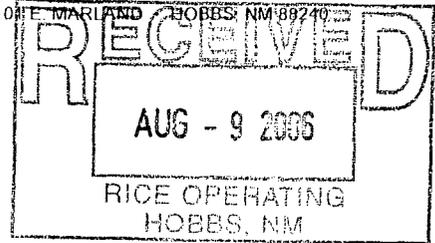
Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)



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

PHONE (505) 393-2326 • 101 E. MARLBORO • 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: 08/04/06
 Reporting Date: 08/07/06
 Project Number: NOT GIVEN
 Project Name: EME AMERADA HARTMAN J EOL
 Project Location: NOT GIVEN

Sampling Date: 08/03/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AB
 Analyzed By: BC/AB

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
	ANALYSIS DATE	08/04/06	08/04/06	08/04/06
H11412-1	BACKFILL BLEND	<10.0	73.8	144
H11412-2	5 PT. BTTM. COMP. 30x30x12	<10.0	<10.0	112
H11412-3	4 WALL COMP. 30x30x12	<10.0	375	208
	Quality Control	748	756	1000
	True Value QC	800	800	1000
	% Recovery	93.5	94.5	100
	Relative Percent Difference	2.0	0.5	1.0

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

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

Burjett R. Cook
 Chemist

8/7/06
 Date

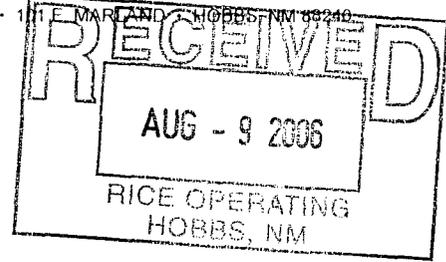
H11412A

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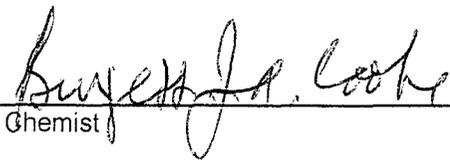
Receiving Date: 08/04/06
 Reporting Date: 08/07/06
 Project Number: NOT GIVEN
 Project Name: EME AMERADA HARTMAN J EOL
 Project Location: NOT GIVEN

Sampling Date: 08/03/06
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AB
 Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
	ANALYSIS DATE	08/04/06	08/04/06	08/04/06	08/04/06
H11412-3	4 WALL COMP. 30x30x12	<0.005	<0.005	<0.005	<0.015
H11412	COMP. COMPOSITE OF SPLS. 4-19 FROM N, S, E, & W WALLS	<0.005	<0.005	<0.005	<0.015
	Quality Control	0.098	0.098	0.100	0.299
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	97.8	97.7	100	99.7
	Relative Percent Difference	0.4	1.8	1.5	0.3

FIELD
LAB

METHOD: EPA SW-846 8260


 Chemist


 Date

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CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

BILL TO

ANALYSIS REQUEST

Company Name: REE OPER Co.
 Project Manager: ROY R. RASCON
 Address: 132 W. TAYLOR
 City: HOBBS State: NM zip: 88240
 Phone #: 393-9174 Fax #: 393-1471
 Project #: _____ Project Owner: _____
 Project Name: EME AMERINDA HARTMAN T EOL
 Project Location: _____
 Sampler Name: David Mitchell
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 M	CI-	BTEX SEE Remarks	BTEX
				GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :						
H11412-1	BACKFILL Blend	C	1	✓						8-3-06	2:30pm	✓			
-2	5 Ptg BTM COMP. 30X30X12	C	1	✓						8-3-06	12:12	✓			
-3	4 wall Comp. 30X30X12	C	1	✓						8-3-06	12:35	✓			
-4	NORTH WALL SP# 1	C	1	✓							1:45	✓			
-5		C	1	✓							1:55	✓			
-6		C	1	✓							2:04	✓			
-7		C	1	✓							2:10	✓			
-8		C	1	✓							2:20	✓			
-9	EAST WALL SP# 1	C	1	✓						8-3-06	12:05	✓			
-16		C	1	✓							12:10	✓			

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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: _____ Date: 8-4-06 Time: 9:10 Received By: _____
 Relinquished By: David Mitchell Date: 8-4-06 Time: 9:10 Received By: (Lab Staff) _____
 Delivered By: (Circle One) UPS - Bus - Other: _____ Sample Condition: Cool Intact Yes No
 Checked By: (Initials) RB

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

REMARKS: Composite All samples & Run BTEX IN LAB
Email Results to RRASCON @ RICE SUD. Com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

BILL TO

ANALYSIS REQUEST

Company Name: <u>RICE OPER. Co.</u>	P.O. #:
Project Manager: <u>Roy R. Rascon</u>	Company:
Address: <u>122 W. TAYLOR</u>	Attn:
City: <u>Hobbs</u>	Address:
State: <u>NM</u> Zip: <u>88240</u>	City:
Phone #: <u>393-9174</u> Fax #: <u>397-1471</u>	State:
Project #: _____ Project Owner:	Zip:
Project Name: <u>EME Amecada Hoffman "J" EOL</u>	Phone #:
Project Location:	Fax #:
Sampler Name: <u>Donald McFello</u>	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV/		DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			
H1117-11	EAST well SP# 3	G	1	✓							8-3-06	12:15	✓	BTEX SEE Remarks
-12		G	1	✓							8-3-06	12:20	✓	
-13		G	1	✓							8-3-06	12:30	✓	
-14	SOUTH well SP# 1	G	1	✓							8-3-06	11:45	✓	
-15		G	1	✓							8-3-06	11:50	✓	
-16		G	1	✓							8-3-06	11:55	✓	
-17		G	1	✓							8-3-06	12:00	✓	
-18		G	1	✓							8-3-06	11:45	✓	
-19	WAT well COMP# 7	G	1	✓							8-3-06	11:45	✓	

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Sampler Relinquished By: <u>Donald McFello</u>	Date: <u>8-4-06</u>	Time: <u>9:10</u>	Received By: (Lab Staff)	Signature: <u>[Signature]</u>
Relinquished By:	Date: <u>8-4-06</u>	Time: <u>9:10</u>	Received By: (Lab Staff)	Signature: <u>[Signature]</u>

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>[Signature]</u>
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	

REMARKS: Composite All Sampled Run BTEX IN LAB

S-mail to Rascon@RiceSWD.com

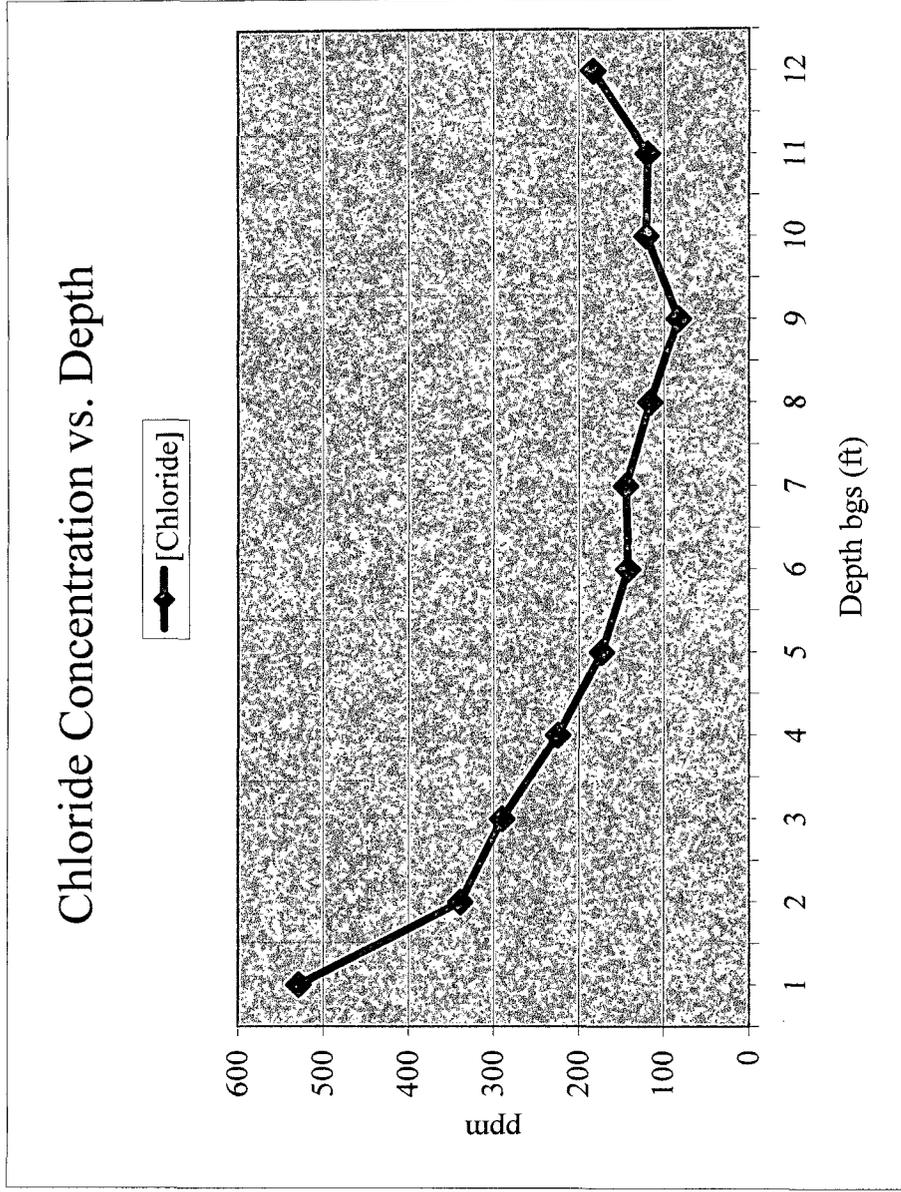
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EME Amerada Hartman 'J' EOL

unit 'C', Sec. 17, T19S, R37E

5 ft SOUTH of junction

Depth bgs (ft)	[Cl] ppm
1	529
2	339
3	290
4	225
5	173
6	142
7	145
8	116
9	83
10	121
11	119
12	183



Groundwater = 50 ft

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
NO.

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

MODEL: PGM 761S
MODEL: PGM 7600
MODEL: PGM 7600
MODEL: PGM 7600

SERIAL NO: 104412
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-012920

LOT NO: 05-2992
FILL DATE: 11-1-05
ACCURACY: +/- 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

EXP. DATE: 5-1-07

METER READING ACCURACY: 100.3

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EMÉ	Amerada Hartman State "J"	C	17	19S	37E

4-walls 1-2-3-4 SAMPLE Backfill Blend

E WALL
W WALL
S WALL
S WALL

SAMPLE	PID Results	Sample	PID Results
1	133		
2	71.6		
3	265		
4	715		
4-WALL-COMPOSITE	7		
SAMPLE	30.1		
Backfill Blended	69.3		

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

SIGNATURE: Ray R. Rascon

DATE: 8-3-06

Notes Transposed By Ray R. Rascon and are true & Accurate.
formed signed By Ray R. Rascon 1-2-07 for Darnell Mitchell