

**1R - 427 - 140**

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# **REPORTS**

**DATE:**

**7-27-04**

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EME F-1 ECL

1R0427-140

**FINAL**  
**REPORT**

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	F-1 EOL	U	1	21S	36E	Lea	45 ft Southwest		

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

Depth to Groundwater >100 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 3/17/2004 Date Completed 5/6/2004 OCD Witness No

Soil Excavated 204 cubic yards Excavation Length 23 Width 20 Depth 12 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 3/19/2004 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

**CHLORIDE FIELD TESTS**

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SIDEWALLS	0.0	<10.0	<10.0	2480
BOTTOM	0.0	<10.0	33.2	608
REMEDIATED	0.0	<10.0	<10.0	1780

LOCATION	DEPTH (ft)	ppm
Vertical	5	8219
at source	6	10678
	7	1309
	8	2030
	9	535
	10	241
	11	168
	12	207
	13	145
	14	148
15 ft South	7	3684
	8	2657
	9	790
	10	365
	11	297
4-wall comp.	n/a	1821
bottom comp.	12	443
backfill	n/a	1530

**General Description of Remedial Action:** This end-of-line (EOL) box was located south of an active production facility. Delineation and excavation were performed with a backhoe as chloride tests and PID readings were conducted at regular intervals. The source at the box yielded a conclusive trend of declination to a depth of 12 ft BGS (see graph), indicative of non-saturated conditions in the vadose zone below the box. The 23 x 20 x 12-ft deep excavation also exhibited a lateral and vertical decline in chloride concentrations. All PID readings were 0.0 ppm and lab results confirmed TPH concentrations well below NMOCD guidelines. The excavated soil was blended on site and then backfilled in the hole. The disturbed surface was seeded with a blend of native vegetation. A new water-tight EOL box has been built 45 ft southwest of this site.

enclosures: chloride graph, photos, lab results, PID readings, diagram

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

SITE SUPERVISOR Joe Gatts SIGNATURE *Joe Gatts* COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Farris Pope*

DATE 7/27/2004 TITLE Project Scientist

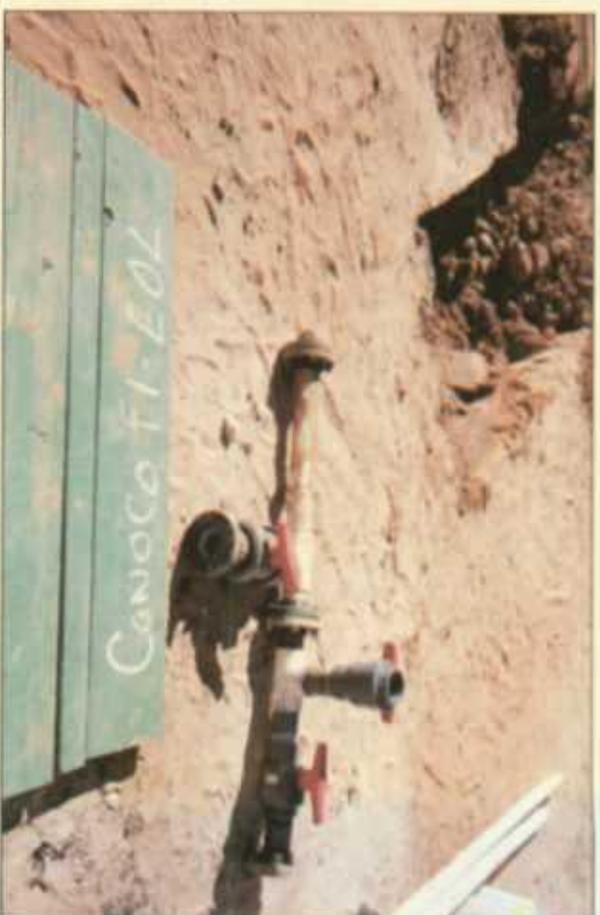
# EME F-1 EOL

unit 'U', Sec. 1, T21S, R36E



Undisturbed junction box prior to excavation

11/19/2003



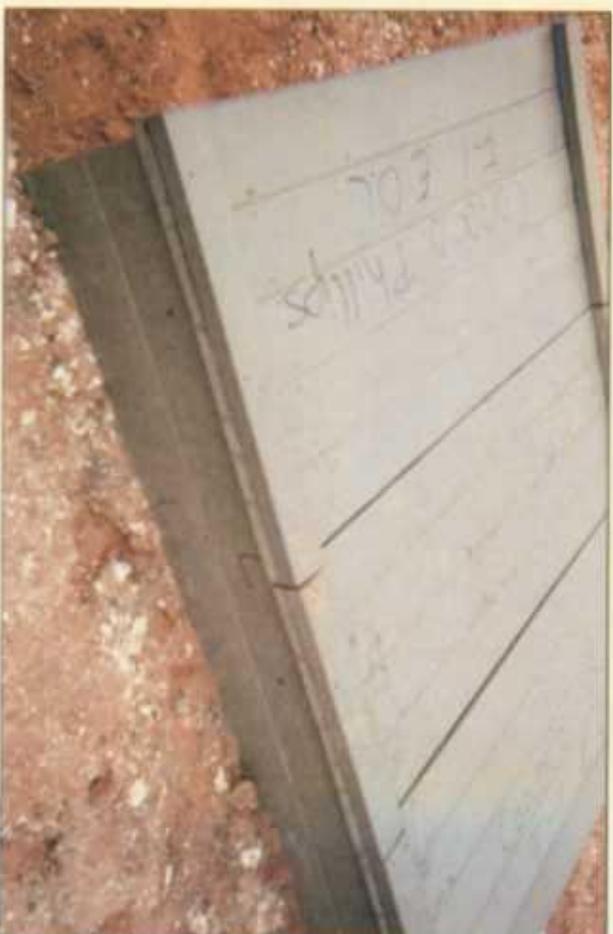
Old box site with old plumbing; lid in foreground

1/9/2004



New plumbing at new box site 45 ft southwest

1/9/2004



Completed new junction box 45 ft southwest of old one

1/16/2004

# EME F-1 FOIL



Beginning excavation & delineation 3/17/2004



Final excavation: 23 x 20 x 12-ft-deep 3/17/2004



Backfilled site with new box in foreground 5/6/2004

**CHLORIDE CONCENTRATION CURVE**

**RICE Operating Company**

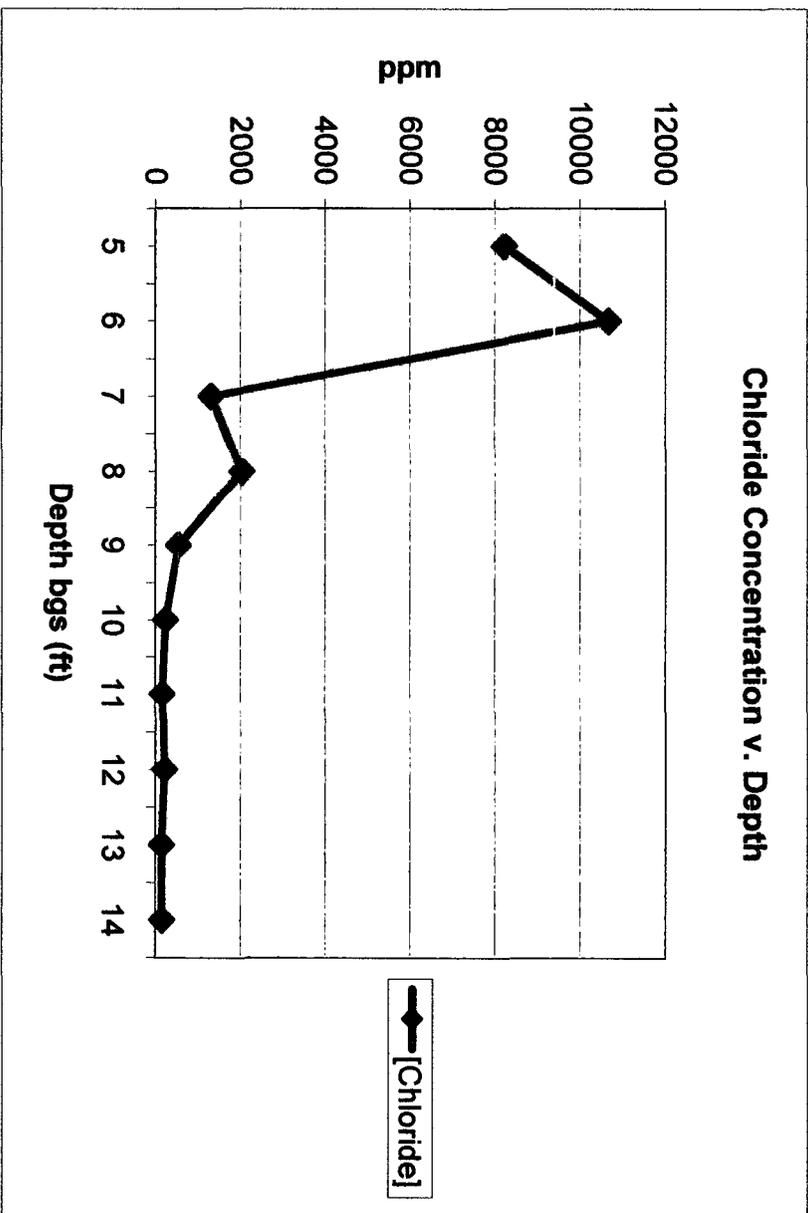
**EME F-1 EOL**

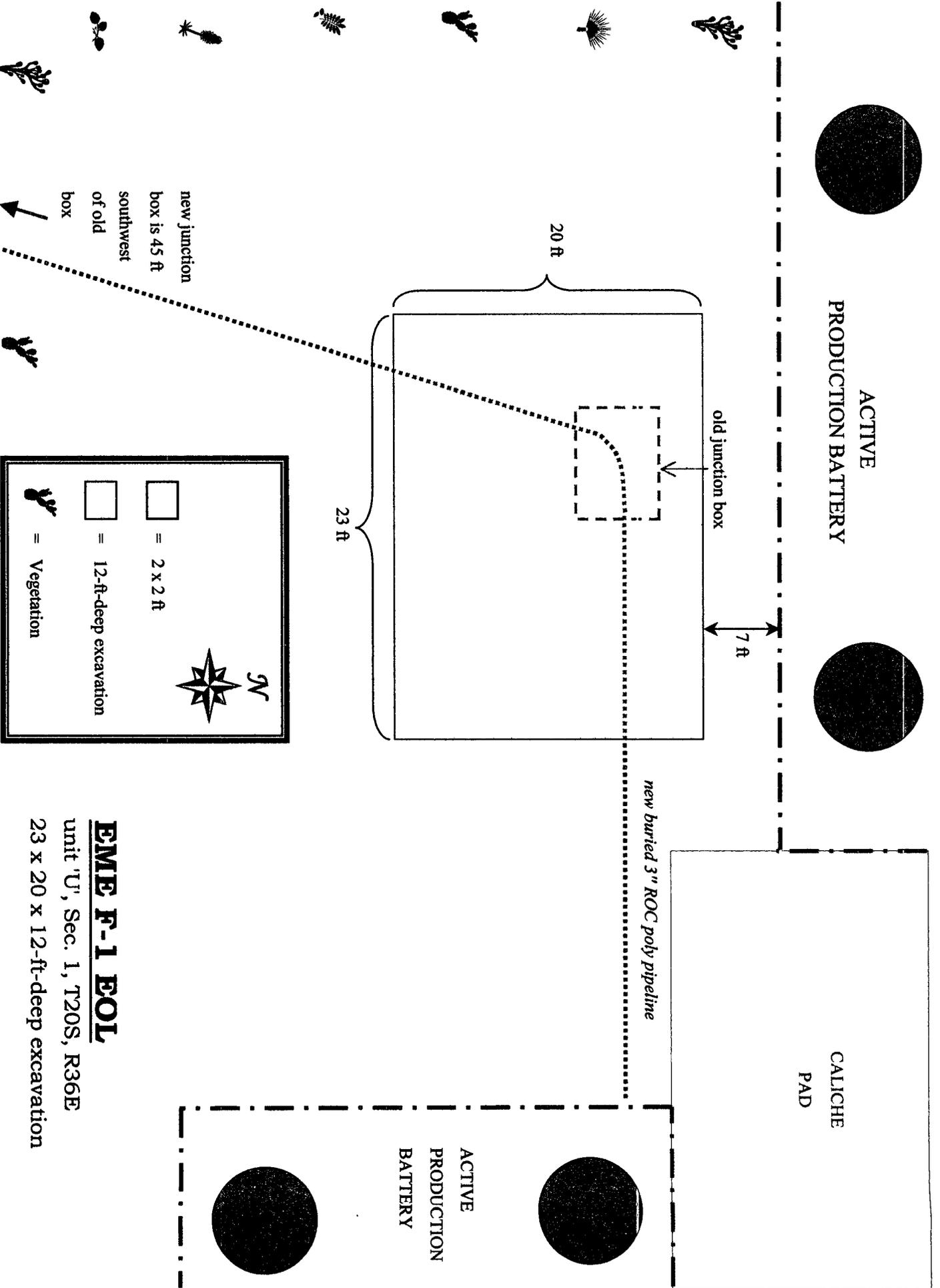
Unit 'U', Sec. 1, T21S, R36E

*Vertical Delineation at Source*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
5	8219
6	10678
7	1309
8	2030
9	535
10	241
11	168
12	207
13	145
14	148

Groundwater = >100 ft





**EME F-1 BOL**  
 unit 'U', Sec. 1, T20S, R36E  
 23 x 20 x 12-ft-deep excavation



# ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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: 03/19/04  
Reporting Date: 03/22/04  
Project Number: NOT GIVEN  
Project Name: CONOCO F-1 ST. EOL  
Project Location: EME

Sampling Date: 03/19/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC/AH

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	03/19/04	03/19/04	03/22/04
H8544-1 BOTT. COMP. 12'BGS	<10.0	33.2	608
H8544-2 REMD. BACK.	<10.0	<10.0	1780
H8544-3 4 WALL COMP.	<10.0	<10.0	2480
Quality Control	843	835	980
True Value QC	800	800	1000
% Recovery	105	104	98.0
Relative Percent Difference	1.1	5.6	2.0

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

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

*Bryson A. Roark*  
\_\_\_\_\_  
Chemist

*3/22/04*  
\_\_\_\_\_  
Date

H8544.XLS

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**RICE OPERATING COMPANY**  
 122 WEST TAYLOR  
 HOBBS, NEW MEXICO 88240  
 PHONE: (505) 393-9174 FAX: (505) 397-1471  
**VOC FIELD TEST REPORT FORM**  
 MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S  
 CALIBRATION GAS  
 GAS COMPOSITION: ISOBUTYLENE  
 AIR  
 LOT NO: 02-22-30  
 EXP. DATE: 11/20/04  
 METER READING  
 ACCURACY: 99.8

SERIAL NO: 104412  
 100 PPM  
 BALANCE  
 FILL DATE: 5/20/03  
 ACCURACY: + or - 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Conoco F-1	U	1	21	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
5' East 12' top	0		
5' East 13' top	0		
5' East 14' top	0		
5' East 15' top	0		
Bottom @ 12' comp.	0		
N WALL @ 5'	0		
15' S Wall	0		
15' E Wall	0		
8' W Wall	0		
WALL comp	0		
Backfill Rund Back	0		

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

Joe Gust  
 Signature

3/19/04  
 Date