

EME F-I ECL

IR0427-140

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

| _ | | | | | BOX LOC | | | | | |
|---|--|---|--|---|---|---|---------|-----------------------|--|--|
| | SWD SYSTEM | JUNCTION | UNIT | SECTION | N TOWNSHIP | RANGE | COUNTY | | MENSIONS - F | |
| | EME | F-1 EOL | U | 1 | 21S | 36E | Lea | Length | Width 5 ft Southwest | Depth |
| ـــ ا | AND TYPE: B | BLM | STATE | X FEEI | | L | | OTHER | | <u></u> |
| | | | | | | | | | | |
| C | Depth to Groun | idwater | >100 | feet | NMOCD | SITE ASSE | ESSMENT | RANKING S | CORE: | 0 |
| | Date Started | 3/17/2 | 2004 | Date C | ompleted | 5/6/2004 | | Witness | No | |
| S | Soil Excavated | 204 | cubic ya | rds E | xcavation Le | ngth 23 | Widtl | 20 | Depth | <u>12</u> fee |
| | Soil Disposed | 0 | cubic ya | rds C | Offsite Facility | n | /a | Location | n/ | a |
| FIN | IAL ANALY | TICAL R | ESULTS | 6: Sam | ple Date | 3/19/20 | 004 | _Sample De | epth | 12 ft |
| | cure 5-point co dewalls. TPH approved lab | and Chlorid | e laborator | y test resi | • | l by using a | | CHLOF | RIDE FIELD T | ESTS |
| | | | | ····· | | Chloride | | OCATION | DEPTH (ft) | ppm |
| | Sample | PID | G | RO | DRO | | | OCATION | | |
| | | <u>PID</u> ppm | | RO g/kg | <u>DRO</u> mg/kg | mg/kg | | Vertical | 5 | 8219 |
| s | Sample | | mį | _ | | | | | | |
| | Sample Location | ppm | m(<1 | g/kg | mg/kg | mg/kg | | Vertical | 5 | 8219 |
| | Sample Location IDEWALLS | ppm 0.0 | mg <1 <1 | g/kg 0.0 | mg/kg <10.0 | mg/kg 2480 | | Vertical | 5 6 | 8219 10678 |
| | Sample Location IDEWALLS BOTTOM | ppm 0.0 0.0 | mg <1 <1 | g/kg 0.0 0.0 | mg/kg <10.0 33.2 | mg/kg 2480 608 | | Vertical | 5 6 7 | 8219 10678 1309 |
| RE | Sample Location IDEWALLS BOTTOM | ррт 0.0 0.0 0.0 | m(<1 <1 <1 | g/kg 0.0 0.0 0.0 | mg/kg <10.0 33.2 <10.0 | mg/kg 2480 608 1780 | | Vertical | 5 6 7 8 | 8219 10678 1309 2030 |
| RE Gen | Sample Location IDEWALLS BOTTOM EMEDIATED | ppm 0.0 0.0 0.0 n of Remedi | <pre>mq <<1 <<1 <<1 <<1 <<1 <<1 <<1 <<1 <<1 <<</pre> | g/kg 0.0 0.0 0.0 This (| mg/kg <10.0 33.2 <10.0 end-of-line (EOL | mg/kg 2480 608 1780) box was loca | | Vertical | 5 6 7 8 9 | 8219 10678 1309 2030 535 |
| RE Gen | Sample Location IDEWALLS BOTTOM EMEDIATED eral Descriptio | ppm 0.0 0.0 0.0 n of Remedi luction facility. | ial Action: | g/kg 0.0 0.0 0.0 This of and excava | mg/kg <10.0 33.2 <10.0 end-of-line (EOL | mg/kg 2480 608 1780) box was loca med with a | | Vertical | 5 6 7 8 9 10 | 8219 10678 1309 2030 535 241 |
| RE Gen south | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc | ppm 0.0 0.0 0.0 n of Remedi Juction facility. | ial Action: Delineation | g/kg 0.0 0.0 0.0 This of and excava conducted | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva | mg/kg 2480 608 1780) box was loca med with a als. The source | | Vertical | 5 6 7 8 9 10 11 | 8219 10678 1309 2030 535 241 168 |
| RE Gen south packl | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te | ppm 0.0 0.0 0.0 n of Remedi luction facility. ests and PID re inclusive trend | ial Action: Delineation badings were of declinatio | g/kg 0.0 0.0 This of and excava conducted n to a depth | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva n of 12 ft BGS (see | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), | | Vertical | 5 6 7 8 9 10 11 12 | 8219 10678 1309 2030 535 241 168 207 |
| RE Gen south packl at the | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te box yielded a co | ppm 0.0 0.0 0.0 n of Remedi Juction facility. ests and PID re inclusive trend ated conditions | ial Action: Delineation adings were of declinatio | g/kg 0.0 0.0 This of and excava conducted n to a depth se zone bel | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva n of 12 ft BGS (se ow the box. The | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), | | Vertical | 5 6 7 8 9 10 11 12 13 | 8219 10678 1309 2030 535 241 168 207 145 |
| RE Gen south packl at the ndica 23 x 2 | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te box yielded a co ative of non-satur | ppm 0.0 0.0 0.0 n of Remedi duction facility. ests and PID re inclusive trend ated conditions accavation also | ial Action: Delineation adings were of declinatio s in the vado exhibited a la | g/kg 0.0 0.0 This of and excava conducted n to a depth se zone bell ateral and v | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva n of 12 ft BGS (se ow the box. The ertical decline in | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), chloride | | Vertical at source | 5 6 7 8 9 10 11 12 13 14 | 8219 10678 1309 2030 535 241 168 207 145 148 |
| RE Gen south packl at the ndica 23 x 2 conce | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te box yielded a co ative of non-satur 20 x 12-ft deep ex | ppm 0.0 0.0 0.0 n of Remedi luction facility. ests and PID re inclusive trend ated conditions covation also D readings we | ial Action: Delineation adings were of declinatio s in the vado exhibited a la re 0.0 ppm a | g/kg 0.0 0.0 This of and excava conducted n to a depth se zone bel ateral and v nd lab result | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva to of 12 ft BGS (se ow the box. The ertical decline in ts confirmed TPI | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), chloride H concentratio | | Vertical at source | 5 6 7 8 9 10 11 12 13 14 7 | 8219 10678 1309 2030 535 241 168 207 145 148 3684 |
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| RE Gen south packl at the ndica 23 x : conce vell t he h | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te box yielded a co ative of non-satur 20 x 12-ft deep ex entrations. All PII below NMOCD gu | ppm 0.0 0.0 0.0 n of Remedi duction facility. ests and PID re inclusive trend ated conditions ccavation also D readings we idelines. The | ial Action: Delineation adings were of declinatio s in the vado exhibited a la re 0.0 ppm a excavated so | g/kg 0.0 0.0 This of and excava conducted n to a depth se zone bel ateral and v nd lab resul pil was blen n a blend of | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva n of 12 ft BGS (se ow the box. The ertical decline in ts confirmed TPI ded on site and t native vegetation | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), chloride H concentration then backfilled | | Vertical at source | 5 6 7 8 9 10 11 12 13 14 7 8 9 | 8219 10678 1309 2030 535 241 168 207 145 148 3684 2657 790 |
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| RE Gen south packl at the ndica 23 x : conce well t he h | Sample Location IDEWALLS BOTTOM EMEDIATED eral Description of an active proc hoe as chloride te box yielded a co ative of non-satur 20 x 12-ft deep ex entrations. All PII below NMOCD gui nole. The disturbe | ppm 0.0 0.0 0.0 n of Remedi duction facility. ests and PID re inclusive trend ated conditions ccavation also D readings we idelines. The | ial Action: Delineation adings were of declinatio s in the vado exhibited a la re 0.0 ppm a excavated so | g/kg 0.0 0.0 This of and excava conducted n to a depth se zone bel ateral and v nd lab resul pil was blen n a blend of | mg/kg <10.0 33.2 <10.0 end-of-line (EOL ation were perfor at regular interva n of 12 ft BGS (se ow the box. The ertical decline in ts confirmed TPI ded on site and t native vegetation | mg/kg 2480 608 1780) box was loca med with a als. The source ee graph), chloride H concentration then backfilled | ated | Vertical at source | 5 6 7 8 9 10 11 12 13 14 7 8 9 10 11 | 8219 10678 1309 2030 535 241 168 207 145 148 3684 2657 790 365 297 |

KNOWLEDGE AND BELIEF.

| | Joe Gatts SIGNATURE | pr Batt | COMPANY RICE Operating Company |
|---------------------|---------------------|-----------|--------------------------------|
| REPORT ASSEMBLED BY | Kristin Farris Pope | SIGNATURE | in faries Pope |
| DATE | 7/27/2004 | TITLE | Project Scientist |

EME F-1 EOL

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



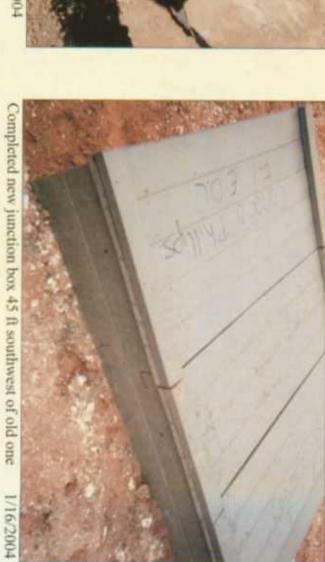
Undisturbed junction box prior to excavation

11/19/2003



Old box site with old plumbing; lid in foreground 1/9/2004





New plumbing at new box site 45 ft southwest

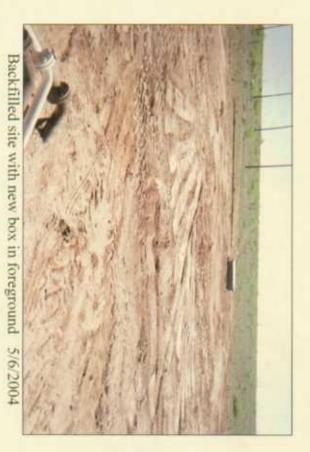
1/16/2004

EME F-1 EOL





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



CHLORIDE CONCENTRATION CURVE

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RICE Operating Company

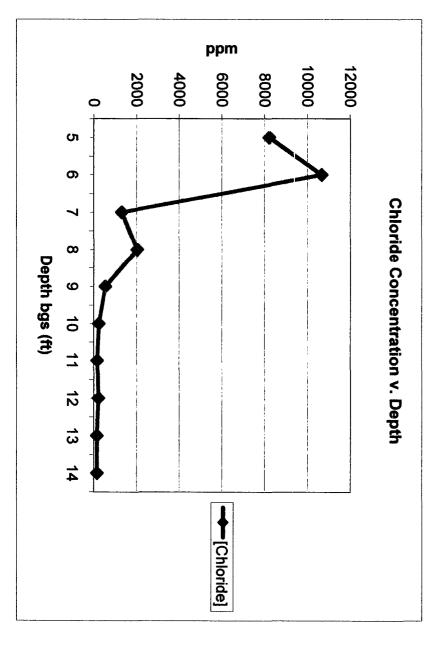
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EME F-1 EOL Unit 'U', Sec. 1, T21S, R36E

Vertical Delineation at Source

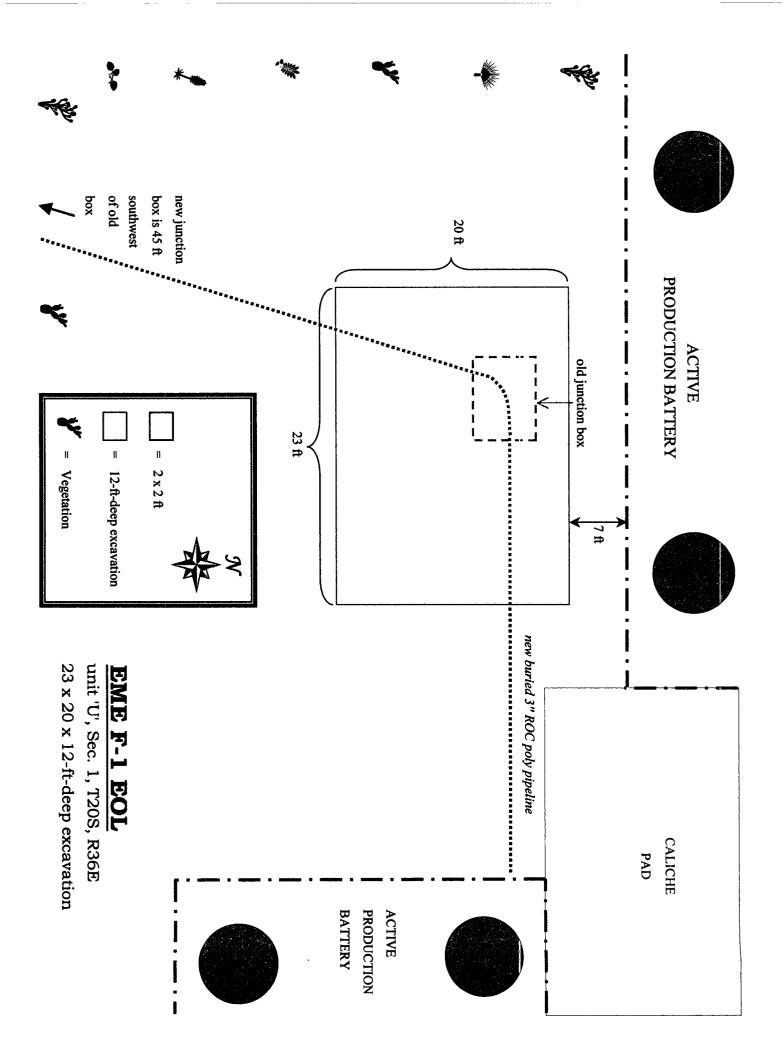
| 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | Depth bgs (ft) |
|-----|-----|-----|-----|-----|-----|------|------|-------|------|----------------|
| 148 | 145 | 207 | 168 | 241 | 535 | 2030 | 1309 | 10678 | 8219 | [Cl] ppm |

Groundwater =>100 ft



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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 | DRO | |
|------------------------------------|------------|---------|
| (C ₆ -C ₁₀) | (>C10-C28) | Cl* |
| (mg/Kg) | (mg/Kg) | (mg/Kg) |
| | | |

| ANALYSIS D | ATE | 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 Contr | | 843 | 835 | 980 |
| True Value Q | IC | 800 | 800 | 1000 |
| % Recovery | | 105 | 104 | 98.0 |
| Relative Perc | cent Difference | 1.1 | 5.6 | 2.0 |

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

eto ff Room

H8544.XLS

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 based whatsboard 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 table for incidents or consequential damages, including, without limitation, business instructions or loss of profile incident or consequential damages, including, without limitation, business instructions or loss of profile incidents or consequential damages, including, without limitation, business instructions or loss of profile incidents or consequential damages, including, without limitation, business instructions or loss of profile incidents or consequential damages, including, without limitation, business instructions or loss of profile incidents or consequential damages, including, without limitation, business instructions of loss of profile incidents or consequential damages, including, without limitation, business instructions of loss of profile incidents or consequential damages, including, without limitation, business instructions or loss of profile incidents or successors arising out of or related to the performance of services hereinder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

| Delivered By: (Circle One) Time: (: 30 / Stample Condition CHECKED BY: | Qarin D | MATRIX PRESERV SAMPLING | Fax #: | n: EME Phone # |
|--|---|---|--|--|
| 001112 Date: 3/19/04 | | Sample LD. Sample LD. Sample LD. Sample LD. Add. Rac K Add. Add. Rac K Add. Rac K A | Mirat Mirat Sample I.D. Sample I.D. Children Children Children Children Children Convolution Convolution Convolution <th>Thirtis Fare: Antris Sample I.D. Anti-Comp Antria Antria Antria <tr< th=""></tr<></th> | Thirtis Fare: Antris Sample I.D. Anti-Comp Antria Antria Antria <tr< th=""></tr<> |
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+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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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: 07-27-30 |
| EXP. DATE: 11/20/04 |
| METER READING |
| ACCURACY: 978 |
| |

Backfill

SERIAL NO: 104412

100 PPM BALANCE FILL DATE: 5/20/03ACCURACY: +m - 27

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

| SAMPLE | PID RESULT | SAMPLE | PID RESULT |
|------------------|------------|--|------------|
| 5'Fast 12 bep | 6 | | |
| 5' East 13 bes | 0 | | |
| 5' East 14'bep | 00 | | |
| 5 East 15 kgs | 0 | | |
| Bott Comp | 0 | r | |
| N WALL 5' | 0 | | |
| 5 Wall | 0 | | |
| EVall | 0 | | |
| v Wall | 0 | | |
| W Wall wAll comp | 0 | | |
| Rund Back | 0 | | |
| | | | |
| | | ************************************** | 1 |

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

Signature

<u>3/19/04</u> Date