

1R - 427-264

REPORTS

DATE:

01-20-09

EME Apache 'Z' Boot

1R427-264

RECEIVED
MAR 25 2009
Environmental Bureau
Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|---------------------------------|--------------------|------|---------|----------|-------|--------|-----------------------|-----------|----------|
| Eunice Monument Eumont (EME) | Apache 'Z' boot | A | 13 | 20S | 36E | Lea | Length 7' | Width 21' | Depth 3' |
| | | | | | | | moved 95 ft southeast | | |

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

Depth to Groundwater 29 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 8/20/2008 Date Completed 8/22/2008 OCD Witness no

Soil Excavated 7 cubic yards Excavation Length 5 Width 3 Depth 12 feet

Soil Disposed 24 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 8/20/2008 Sample Depth 12 ft

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 (field) ppm | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|-----------------|-----------------|-----------|-----------|----------------|
| SOURCE 12' GRAB | 0.2 | <10.0 | <10.0 | 32 |

General Description of Remedial Action: This junction was addressed during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 5x3x12-ft-deep-excavation. Chloride field tests were performed on each sample, which yielded low concentrations similar to that of the background. Organic vapors were measured using a PID, which also yielded low concentrations. The deepest sample, 12 ft BGS, was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations. The excavated soil was returned to the excavation and clean, imported soil was used as a top cap and to contour to the surrounding area. On 8/22/2008, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

| LOCATION | DEPTH | mg/kg |
|--|-------|-------|
| background | 6" | 237 |
| vertical delineation trench at the junction (source) | 3' | 413 |
| | 4' | 173 |
| | 5' | 176 |
| | 6' | 207 |
| | 7' | 221 |
| | 8' | 238 |
| | 9' | 206 |
| | 10' | 226 |
| | 11' | 207 |
| | 12' | 214 |

enclosures: photos, lab results, PID field screenings, chloride curve

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

SITE SUPERVISOR Jordan Woodfin SIGNATURE *Jordan Woodfin* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 1-20-09

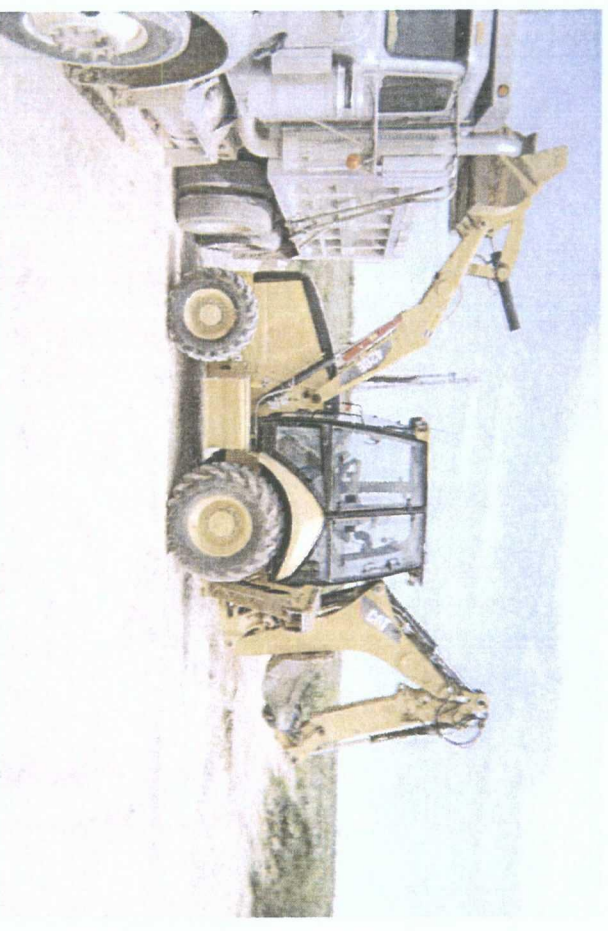
EME Apache 'Z' boot

Unit A, Section 13, T20S, R36E



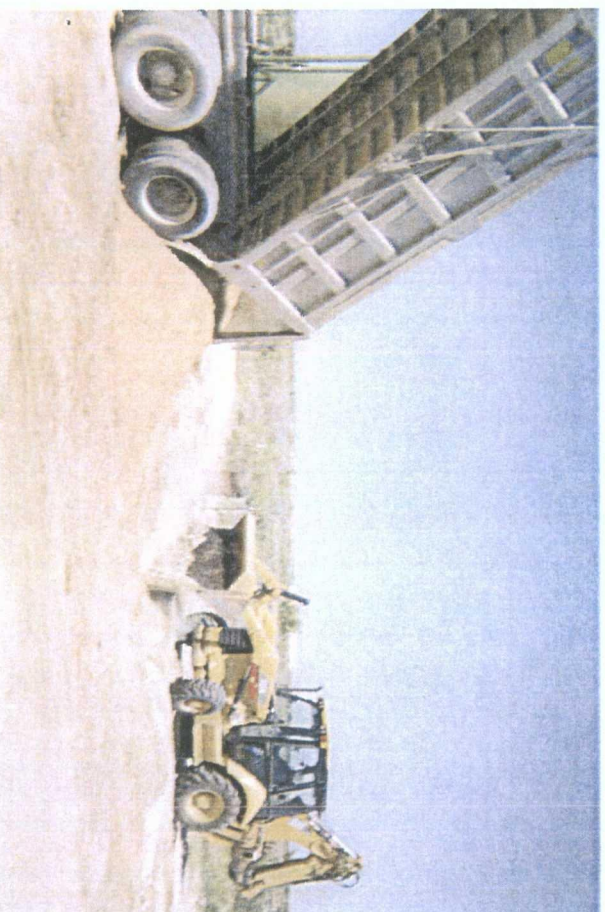
excavating at former junction site, facing north

8/20/2008



disposing of contaminated soil, facing north

8/21/2008



unloading clean soil on site, facing east

8/22/2008



seeding backfilled site, facing north

8/22/2008



COPY

Sampling Date: 08/20/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: AB/HM

Revised report.

Date _____

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[illegible]

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| | | | | | |
|--|--|--|--|--|--|
| Relinquished By: <u>Jason Woodfin</u> Date: <u>8-21-08</u> Time: <u>8:40</u> | | Received By: <u>Step S. Morrow</u> Date: <u>8:40</u> Time: | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ | |
| Relinquished By: _____ Date: _____ Time: _____ | | Received By: _____ Date: _____ Time: _____ | | REMARKS: Email results to <u>bbaaker@riceswd.com</u> Acc to <u>jpurvis@riceswd.com</u> | |
| Delivered By: (Circle One) (Sample) UPS - Bus - Other: | | Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | CHECKED BY: (Initials) <u>JSW</u> | |

EMAIL results to blaker@ricswd.com

ofcc to: jpurvis@rice.edu.com

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

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

COPY

| | |
|-------|-------------------------------------|
| CK. | <input checked="" type="checkbox"/> |
| MODEL | |
| NO. | |

| | |
|-----------------|-----------------------|
| MODEL: PGM 7300 | SERIAL NO: 590-000183 |
| MODEL: PGM 7600 | SERIAL NO: 110-013744 |
| MODEL: PGM 7600 | SERIAL NO: 110-12383 |
| MODEL: PGM 7600 | SERIAL NO: 110-023920 |

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

| | |
|---------------------|--------------------------------|
| LOT NO: 07-3353 | EXPIRATION DATE: 5-16-09 |
| FILL DATE: 11-16-07 | METER READING ACCURACY: 100.00 |

ACCURACY : +/- 2%

| SYSTEM | JUNCTION | UNIT | SECTION | TOWN SHIP | RANGE |
|--------|----------|------|---------|-----------|-------|
| EME | Apache Z | H | 13 | 205 | 30E |

| SAMPLE ID | PID | SAMPLE ID | PID |
|-----------|-----|-----------|-----|
| Source | | | |
| 3' | 0.3 | | |
| 4' | 0.7 | | |
| 5' | 0.4 | | |
| 6' | 0.4 | | |
| 7' | 0.4 | | |
| 8' | 0.3 | | |
| 9' | 0.3 | | |
| 10' | 0.2 | | |
| 11' | 0.2 | | |
| 12' | 0.2 | | |
| | | | |

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

SIGNATURE:

John W. Wolf

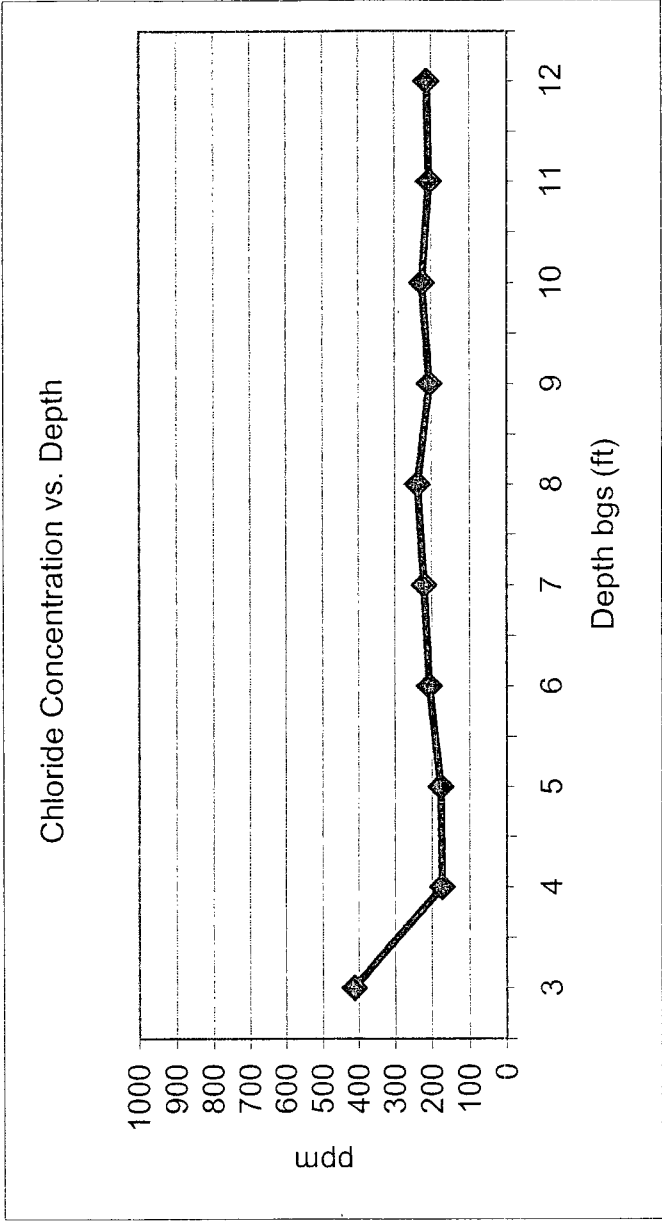
DATE: 8-20-09

EME Apache 'Z' boot

Unit 'A', Sec. 13, T20S, R36E

Backhoe samples at the junction (source)

| Depth bgs (ft) | [Cl] ppm |
|----------------|----------|
| 3 | 413 |
| 4 | 173 |
| 5 | 176 |
| 6 | 207 |
| 7 | 221 |
| 8 | 238 |
| 9 | 206 |
| 10 | 226 |
| 11 | 207 |
| 12 | 214 |



Groundwater = 29 ft