

1R - 426 - 297

REPORTS

DATE:

3 - 22 - 11

1R426-297

BD Jct. A-11-2

2010

RECEIVED

APR -1 2011

**Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505**

CLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|------------------------|-------------|------|---------|----------|-------|--------|--------------------------------------|----------------|----------------|
| | | | | | | | Length 7 ft. | Width 7 ft. | Depth 4 ft. |
| Blinebry-Drinkard (BD) | Jct. A-11-2 | A | 11 | 22S | 37E | Lea | New water tight box in same location | | |

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Irvin Boyd OTHER _____

Depth to Groundwater 59 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 10/21/2010 Date Completed 11/19/2010 OCD Witness no

Soil Excavated 233.3 cubic yards Excavation Length 30 Width 15 Depth 14 feet

Soil Disposed 42 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 11/16/2010 Sample Depth 14 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.

| Sample Location | PID (field) ppm | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|-----------------|-----------------|-----------|-----------|----------------|
| 4-WALL COMP. | 7.0 | <10.0 | <10.0 | 160 |
| BOTTOM COMP. | 7.2 | <10.0 | <10.0 | 224 |
| BACKFILL COMP. | 11.1 | <10.0 | 13.2 | 304 |

CHLORIDE FIELD TESTS

| LOCATION | DEPTH | mg/kg |
|--|-------|-------|
| 4-wall comp. | n/a | 265 |
| bottom comp. | 12' | 513 |
| backfill comp. | n/a | 357 |
| background | 6" | 144 |
| vertical delineation at 5 ft. south of junction (source) | 6' | 86 |
| | 8' | 146 |
| | 10' | 170 |
| | 12' | 89 |
| | 14' | 198 |

General Description of Remedial Action: This junction was addressed during the pipeline replacement/upgrade program. After the junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals creating a 30X15X14-ft. deep excavation. Chloride field tests performed on each sample yielded relatively low concentrations. Organic vapors were measured using a PID, which yielded low concentrations. 42 yards of the excavated soil was hauled to a NMOCD approved facility. The remaining excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation, and excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of each. The excavation was backfill to 5 ft. below ground surface (BGS). A new water tight junction box was built in the same location.

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.

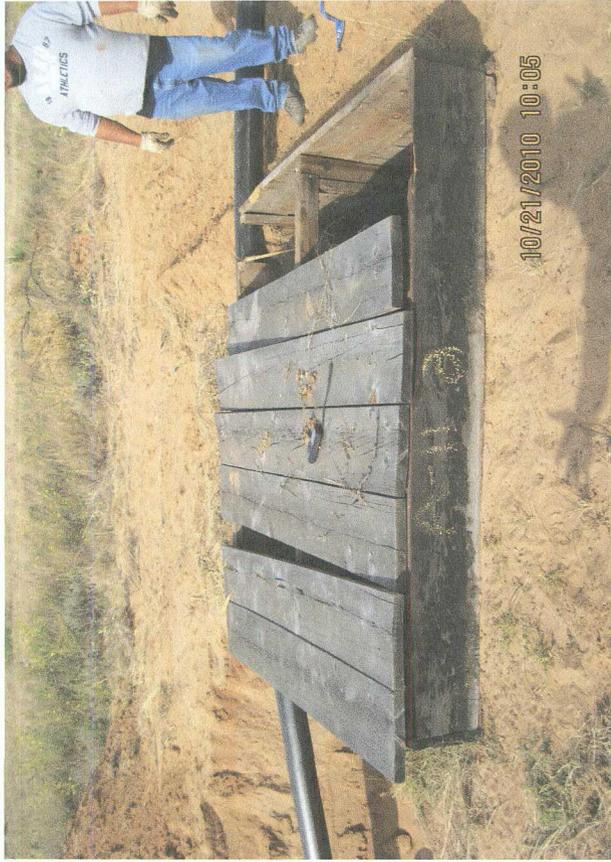
SITE SUPERVISOR John Harrison SIGNATURE Not Available COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-22-11

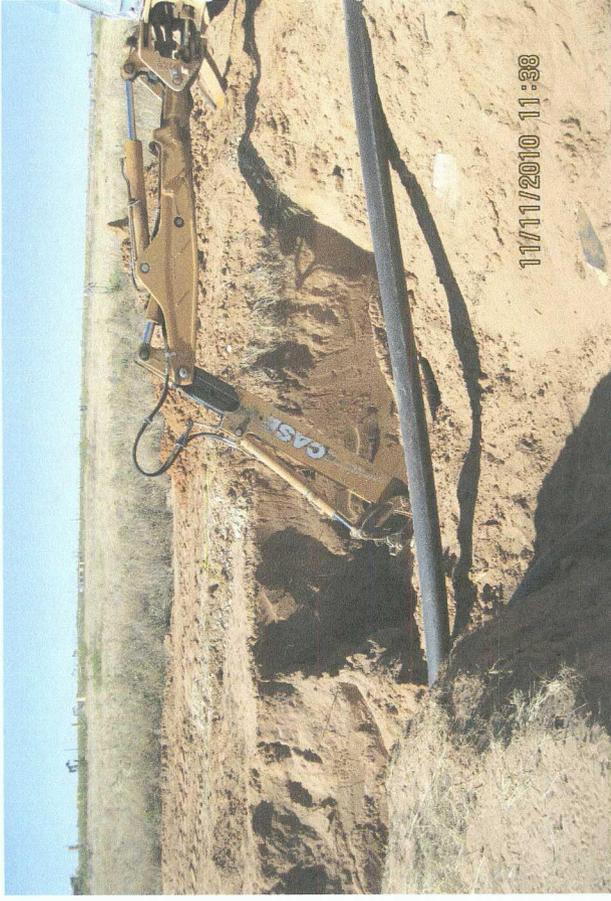
BD Jct. A-11-2

Unit A, Section 11, T22S, R37E



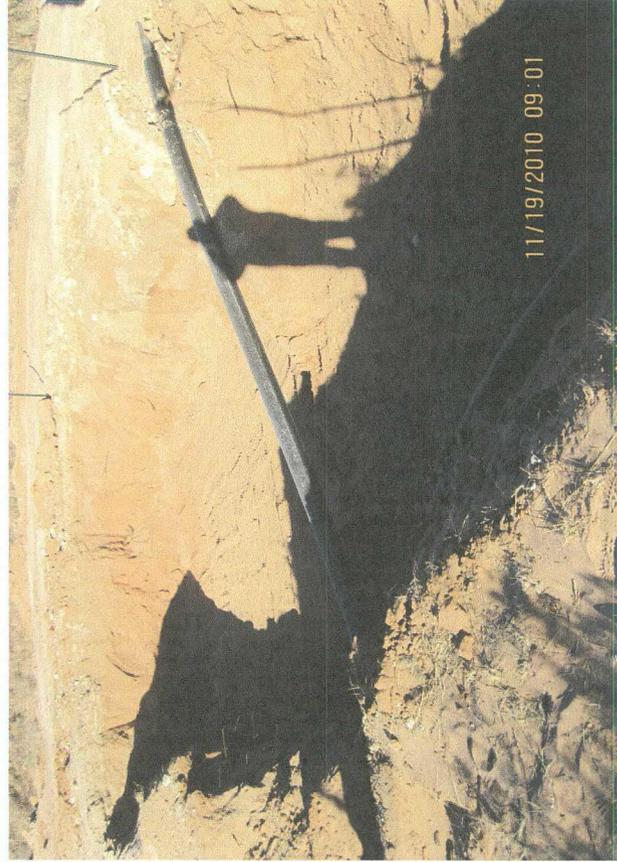
Site prior to delineation

10/21/2010



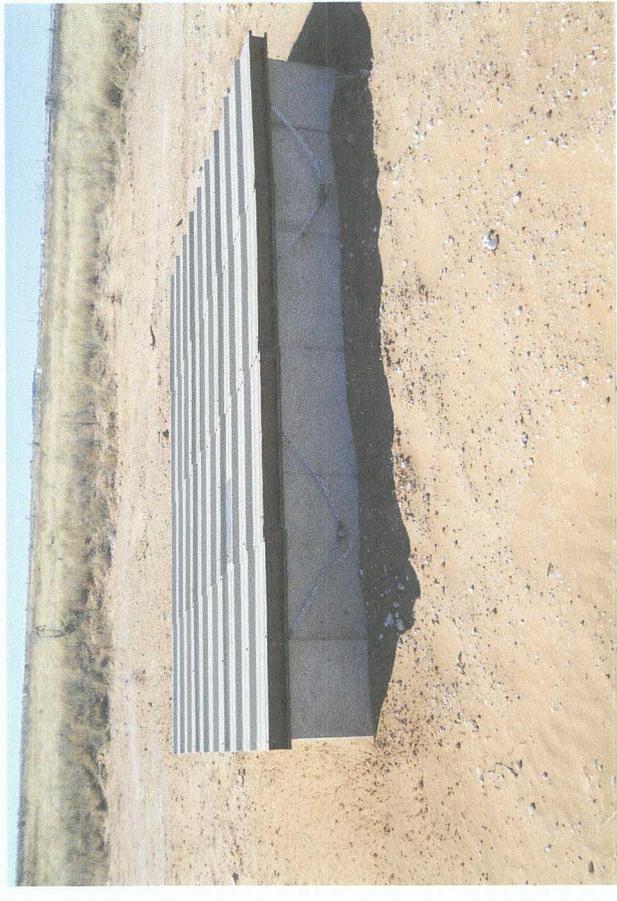
Delineation trench being excavated

10/21/2010



Site backfilled

11/19/2010



New water tight junction box

2/23/2011

Analytical Results For:

Rice Operating Company
Bruce Baker
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 11/16/2010 | Sampling Date: | 11/16/2010 |
| Reported: | 11/17/2010 | Sampling Type: | Soil |
| Project Name: | BD A-11-2 JCT (22/37) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: 5 PT. BOTTOM COMP (H021311-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 11/17/2010 | ND | 432 | 108 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 11/17/2010 | ND | 171 | 85.6 | 200 | 8.99 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/17/2010 | ND | 162 | 81.2 | 200 | 5.00 | | |

Surrogate: 1-Chlorooctane 94.9 % 70-130

Surrogate: 1-Chlorooctadecane 95.2 % 70-130

Sample ID: 4 WALL COMP (H021311-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 160 | 16.0 | 11/17/2010 | ND | 432 | 108 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 11/17/2010 | ND | 171 | 85.6 | 200 | 8.99 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/17/2010 | ND | 162 | 81.2 | 200 | 5.00 | | |

Surrogate: 1-Chlorooctane 99.2 % 70-130

Surrogate: 1-Chlorooctadecane 98.0 % 70-130

COPY

Cardinal Laboratories

*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

Rice Operating Company
 Bruce Baker
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 11/16/2010 | Sampling Date: | 11/16/2010 |
| Reported: | 11/17/2010 | Sampling Type: | Soil |
| Project Name: | BD A-11-2 JCT (22/37) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: BLENDED BACKFILL (H021311-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 304 | 16.0 | 11/17/2010 | ND | 432 | 108 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 11/17/2010 | ND | 171 | 85.6 | 200 | 8.99 | | |
| DRO >C10-C28 | 13.2 | 10.0 | 11/17/2010 | ND | 162 | 81.2 | 200 | 5.00 | | |

Surrogate: 1-Chlorooctane 97.5 % 70-130
 Surrogate: 1-Chlorooctadecane 102 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240
 PHONE: (575) 393-9174 FAX: (575) 397-1471
 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

| |
|---|
| |
| ✓ |
| |

Model: PGM 7300 Serial No: 590-000183
 Model: PGM 7300 Serial No: 590-000508
 Model: PGM 7300 Serial No: 590-000504

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| |
| |

Model: PGM 7600 Serial No: 110-023920
 Model: PGM 7600 Serial No: 110-013744
 Model: PGM 7600 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

| | |
|--------------------------------------|---------------------------------|
| LOT NO: <u>930737</u> | EXPIRATION DATE: <u>6/16/13</u> |
| METER READING ACCURACY: <u>100.0</u> | |

ACCURACY : +/- 2%

| SYSTEM | JUNCTION | UNIT | SECTION | TOWN SHIP | RANGE |
|-----------|---------------|----------|-----------|------------|------------|
| <u>BD</u> | <u>A-11-2</u> | <u>A</u> | <u>11</u> | <u>225</u> | <u>37E</u> |

| SAMPLE ID | PID | SAMPLE ID | PID |
|-------------------------|-------------|-----------|-----|
| <u>5 FT BOTTOM COMP</u> | <u>7.2</u> | | |
| <u>4 WALL COMP</u> | <u>7</u> | | |
| <u>BLENDED BACKFILL</u> | <u>11.1</u> | | |
| | | | |
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COPY

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

SIGNATURE:

DATE: 11/16/10

CHLORIDE CONCENTRATION CURVE

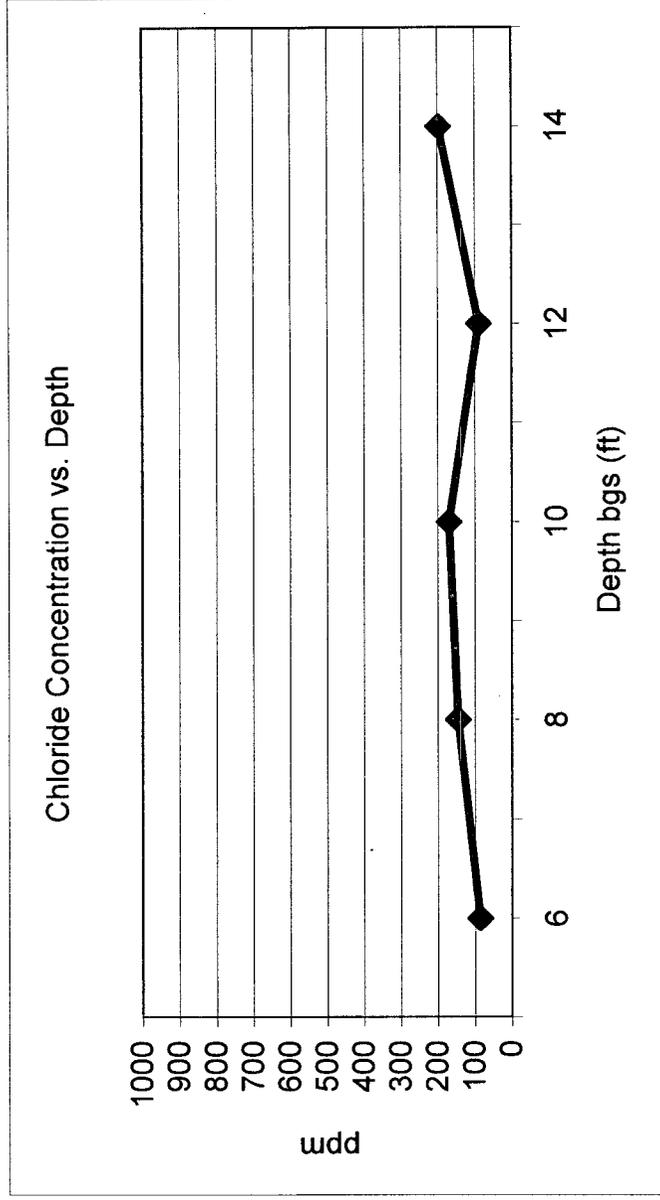
RICE Operating Company

BD Jct. A-11-2

Unit 'A', Sec. 11, T22S, R37E

Backhoe samples 5 ft. south of the junction (source)

| Depth bgs (ft) | [Cl ⁻] ppm |
|----------------|------------------------|
| 6 | 86 |
| 8 | 146 |
| 10 | 170 |
| 12 | 89 |
| 14 | 198 |



Groundwater = 59 ft.