

1R - 427-333

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, March 14, 2013 5:57 PM
To: Hack Conder (hconder@riceswd.com)
Cc: Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones <kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)
Subject: Remediation Plan (1R427-333) Termination - ROC EME Jct H-20 Site

**RE: Termination Request
for the Rice Operating Company's
EME Jct H-20 Site
Unit Letter H, Section 20, T19S, R37E, NMPM, Lea County, New Mexico
Remediation Plan (1R427-333) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated March 1, 2013 (received March 4, 2013). The reports are acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-333) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 9262

March 1, 2013

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RE: Termination Request
EME Jct. H-20 (1R427-333): UL/H, Sec. 20, T19S, R37E
RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background

In 2010, ROC initiated work on the former H-20 junction box. The site is located in UL/H, Sec. 20, T19S, R37E. NM OSE records indicated that groundwater would likely be encountered at a depth of approximately 37 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 5x3x8 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low chloride concentrations. The 8 ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride, gasoline range organics (GRO) and diesel range organics (DRO) concentration below detectable limits. The excavated soil was returned to the excavation and contoured to the surrounding area. On 2/17/2010, the site was seeded with a blend of native vegetation. A junction box is no longer needed at the site. Vegetation has rebounded at the site, so no re-vegetation efforts are needed.

The junction box site location map, final report, photodocumentation, laboratory analysis, PID sheet, chloride graph and current photodocumentation are attached.

2013 MAR -4 P 12:51
RECEIVED OGD

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

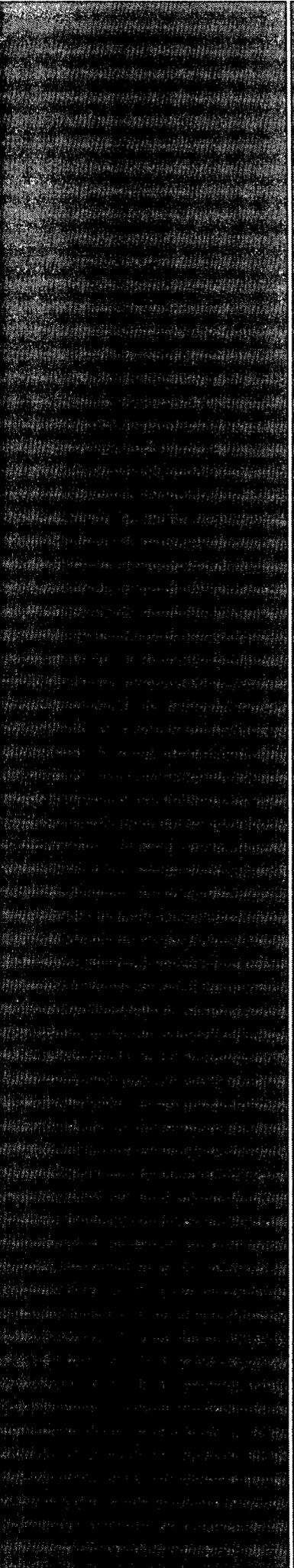
Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a long horizontal flourish extending to the right.

Hack Conder
Environmental Manager

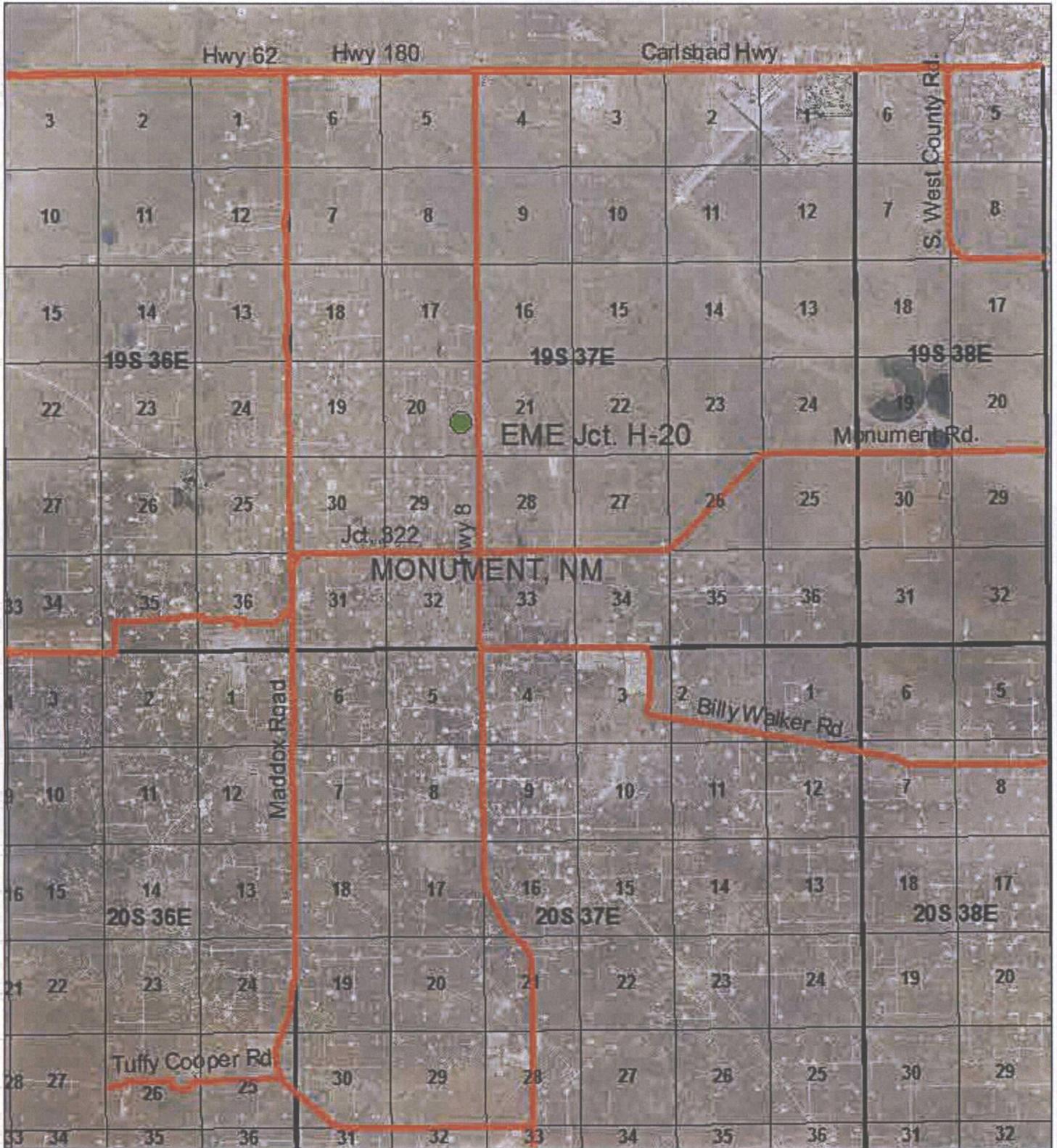
enclosures



Site Location Map

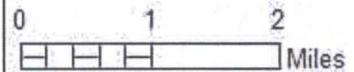
RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

Site Location Map



**EME Jct. H-20
(1R427-333)**

UL H SECTION 20
T-19-S R-37-E
LEA COUNTY, NM



Drawing date: 2/22/13

Junction Box Report

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|------------------------------|-----------|------|---------|----------|-------|--------|-----------------------|-------|-------|
| | | | | | | | Length | Width | Depth |
| Eunice Monument Eumont (EME) | Jct. H-20 | H | 20 | 19S | 37E | Lea | Eliminated | | |

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

Depth to Groundwater 37 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 2/8/2010 Date Completed 2/8/2010 OCD Witness no

Soil Excavated 4.4 cubic yards Excavation Length 5 Width 3 Depth 8 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/8/2010 Sample Depth 8 ft.

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 |
|-----------------|-----------------|-----------|-----------|----------------|
| SOURCE 8' GRAB | 0.1 | <10.0 | <10.0 | <16 |

CHLORIDE FIELD TESTS

| LOCATION | DEPTH | mg/kg |
|--|-------|-------|
| background | 6" | 119 |
| vertical delineation trench at the junction (source) | 4' | 144 |
| | 5' | 148 |
| | 6' | 149 |
| | 7' | 146 |
| | 8' | 143 |

General Description of Remedial Action: This junction and line were eliminated under the pipeline replacement/upgrade program. After the former junction was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals. Chloride field tests were performed on each sample, which yielded low concentrations of chloride similar to that of the background sample. Organic vapors were measured using a PID, which also yielded low concentrations. The deepest sample, 8 ft BGS, was sent to a commercial laboratory for analysis, which confirmed low concentrations of chloride and organics. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area. On 2/17/2010, site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, lab results, PID (field) screenings, chloride graph

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 Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-31-11

EME Junction H-20

Unit H, Section 20, T19S, R37E



Site prior to excavation

2/08/2010



Delineation trench at former junction box

2/08/2010



Backfilling excavation

2/08/2010



Seeding excavation

2/17/2010



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 RICE OPERATING COMPANY
 ATTN: BRUCE BAKER
 122 W. TAYLOR
 HOBBS, NM 88240

Receiving Date: 02/08/10
 Reporting Date: 02/11/10
 Project Number: NOT GIVEN
 Project Name: EME JCT H-20
 Project Location: EME JCT H-20

Sampling Date: 02/08/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: JH
 Analyzed By: AB/HM

| LAB NUMBER | SAMPLE ID | GRO | DRO | CI* |
|------------|-----------|---|---|---------|
| | | (C ₆ -C ₁₀) (mg/kg) | (>C ₁₀ -C ₂₈) (mg/kg) | (mg/kg) |

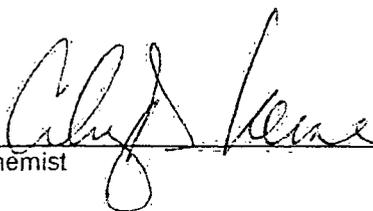
| ANALYSIS DATE | 02/11/10 | 02/11/10 | 02/09/10 |
|-------------------------------|----------|----------|----------|
| H19229-1** SOURCE GRAB @ 8FT. | <10.0 | <10.0 | < 16 |
| | | | |
| | | | |
| | | | |
| | | | |
| Quality Control | 526 | 510 | 510 |
| True Value QC | 500 | 500 | 500 |
| % Recovery | 105 | 102 | 102 |
| Relative Percent Difference | 1.0 | 3.3 | 2.0 |

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

*Analysis performed on a 1:4 w:v aqueous extract.

Reported on wet weight.

**TPH second surrogate outside historical limits due to matrix interference.


 Chemist

COPY


 Date

H19229 TCL RICE

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 cause whatsoever 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 liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

| |
|--|
| |
| |
| |

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: 924503 | EXPIRATION DATE: 7-5-12 |
| FILL DATE: 7-1-09 | METER READING ACCURACY: 99.9 |

ACCURACY : +/- 2%

| SYSTEM | JUNCTION | UNIT | SECTION | TOWN SHIP | RANGE |
|--------|----------|------|---------|-----------|-------|
| EME | H-20 | H | 20 | 19 S | 37E |

| SAMPLE ID | PID | SAMPLE ID | PID |
|-----------|-----|------------|-----|
| Source | | Background | |
| 4' | 0.3 | 6" | 0.3 |
| 5' | 0.3 | | |
| 6' | 0.2 | | |
| 7' | 0.2 | | |
| 8' | 0.1 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

COLE

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

SIGNATURE: *Jordan Wood*

DATE: 7-8-10

CHLORIDE CONCENTRATION CURVE

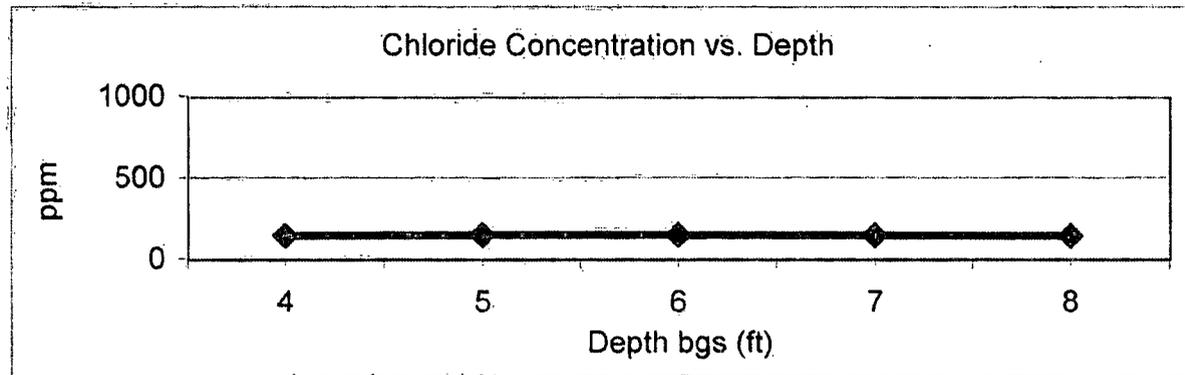
RICE Operating Company

EME Junction H-20

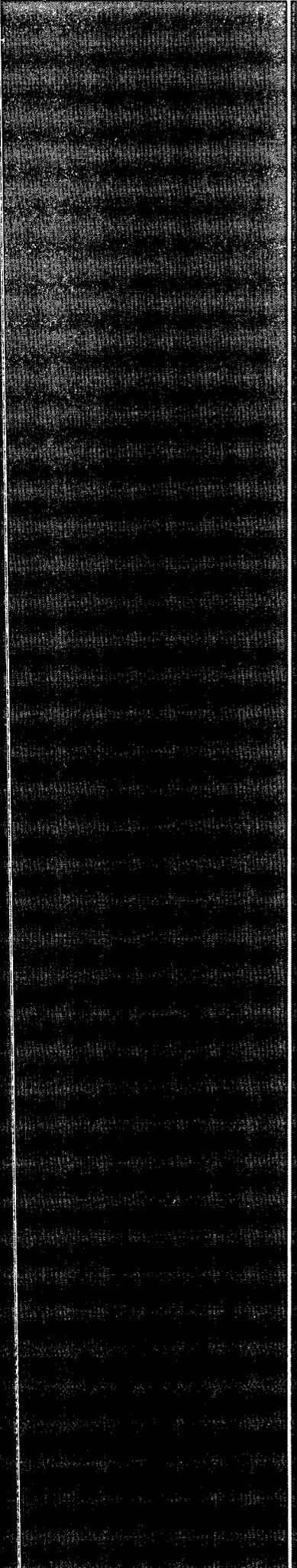
Unit 'H', Sec. 20, T19S, R37E

Backhoe samples at the junction (source)

| Depth bgs (ft) | [Cl] ppm |
|----------------|----------|
| 4 | 144 |
| 5 | 148 |
| 6 | 149 |
| 7 | 146 |
| 8 | 143 |



Groundwater = 37 ft.



Current Photodocumentation

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

EME Jct. H-20
UL/H, Section 20, T19S, R37E



Facing west

2/13/2013



Facing south

2/13/2013