

AP - 47

ANNUAL MONITORING REPORT

YEAR(S):
2007



Highlander Environmental Corp. RECEIVED

Midland, Texas

2008 MAR 31 PM 2 35

CERTIFIED MAIL
RETURN RECEIPT NO. 7002 3150 0005 0508 7720

March 17, 2008

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

Re: 2007 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Blinbry Drinkard (BD) SWD System Junction Box F-17, Unit F, Section 17, T-21-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0426-14 (AP-47)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2007 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Blinbry Drinkard (BD) SWD System junction box F-17.

Background

As part of the ROC Junction Box Upgrade Workplan, starting on September 17, 2002, the junction box was removed and the Site was delineated vertically and horizontally with a backhoe. The Site was excavated to the approximate dimensions of 20 feet x 20 feet x 12 feet. Chloride impact was consistent vertically. No TPH impact was indicated.

During the excavation, an older junction box was discovered approximately 10 feet south of the existing location. On November 18, 2002, a soil boring was placed near this old box location and advanced to a depth of 75 feet. Chloride concentrations declined with depth, however, chloride impact to groundwater was observed.

Also on November 18, 2002, a 2 inch diameter monitor well was installed to a total depth of 85 feet. On December 13, 2002, ROC notified the NMOCD of groundwater impact, and on November 7, 2003 ROC submitted a Junction Box Disclosure Form to the NMOCD. Groundwater has been sampled and analyzed on a quarterly basis since June 2003. The

quarterly sampling has confirmed that there is no hydrocarbon impact to groundwater at this Site. The excavation was backfilled and the junction moved 45 feet south of the original site. The Site location is shown on Figure 1.

On March 17, 2005 an Investigation and Characterization Plan (ICP) was submitted to the NMOCD. On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 12, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The Stage I Abatement Plan approval was received, dated February 23, 2006.

Stage 1 Abatement Plan Implementation

As part of the Stage 1 Abatement Plan two additional monitor wells were proposed for the site. These two monitor wells (MW-2 and MW-3) were installed on March 22-23, 2006. The well locations are shown on Figure 3. MW-2 was placed down-gradient of MW-1 and MW-3 was placed up-gradient. The wells were developed and sampled on March 27, 2006.

Also as part of the Stage I Abatement Plan, a water well database search was performed to encompass a ½ mile radius around the site. ROC performed an internet search of the New Mexico Office of the State Engineer (OSE) and the United States Geologic Survey (USGS) databases for water wells within a ½ mile radius of the subject site.

RULE 19 RELEASE REQUEST and SOIL WORK PLAN

In a report to the NMOCD, dated August 10, 2006, ROC requested a release from additional Stage 1 and Stage 2 requirements and proposed to continue monitoring of the site. Additionally, ROC proposed to complete assessment and remediation of chloride impacted soils for closure under NMOCD approval. The horizontal extent of chloride impact to soils would be evaluated with a backhoe. Once evaluated, the soils will be excavated down below the root zone (minimum of 3.0' below ground surface) and an evapotranspiration barrier (non-compacted clay cap) will be placed into the excavation. The excavated soils will be evaluated for placement back into the excavation to ensure that it will sustain vegetative cover. Once completed, a closure report will be prepared and submitted for the soils portion of this investigation.

The New Mexico Oil Conservation Division Responded to the above-mentioned report on September 27, 2006, in an email memorandum. In that memorandum, the NMOCD stated that they required some additional data in order to continue evaluation of the request for Release from Rule 19. Specifically, the NMOCD requested an area map showing surrounding water wells, monitoring wells and any other sites that may have an impact on this site, and that ROC demonstrate that the groundwater gradient is accurate. A response letter with the requested data was submitted on December 27, 2006.



In a meeting between the NMOCD, Rice Operating and Highlander on July 18, 2007 and January 23, 2008, it was agreed the source of the chlorides appeared to be from an upgradient source based on groundwater gradient and chloride concentration maps. As such, it was agreed that Rice will reissue the original closure report with the request of no additional groundwater monitoring.

Monitor Well Sampling

The site monitor wells were sampled on February 6, April 16, July 23, and October 4, 2007. Prior to sampling, the wells were gauged for static water levels. The monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

The wells were then purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. The pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

The wells were also inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level. Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. The samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas and Cardinal Labs of Hobbs, New Mexico. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Monitor Well Sample Results

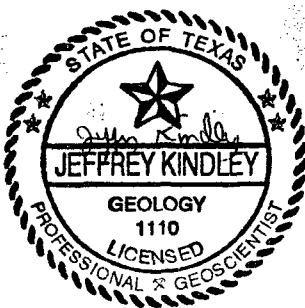
Monitor Well MW-2, down-gradient, has shown consistently low chloride concentrations ranging from 56 mg/L to 66.8 mg/L. The up-gradient well, MW-3 shows a fluctuation in the chloride concentration ranging from 830 mg/L to 1,490 mg/L and appears to indicate an up-gradient source of groundwater impact. In reviewing the historical data for MW-1 for the first 18 months of sampling, the chloride concentrations fluctuated between 177 mg/L and 886 mg/L. Then in January 2005, the chloride concentration jumped to 2,970 mg/L and has since ranged from 1,890 mg/L to 2,510 mg/L. Chloride concentrations decreased dramatically in MW-1 for the 3rd and 4th quarter sampling event (637 and 720 mg/L), respectively. Considering the concentration found in the upgradient monitor well, it appears that the impact to MW-1 may be affected by an up-gradient source of contamination.

In 2007, there were no BTEX constituents detected at or above reporting limits for any of the monitor wells. Cumulative analytical data is summarized in the Table Section of this report.

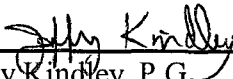


Conclusions

1. In 2007, there were no BTEX constituents detected at or above reporting limits for any of the monitor wells, and no BTEX has ever been detected in MW-1, nearest the junction box.
2. Chloride and total dissolved solid (TDS) concentrations from monitor wells MW-1 and upgradient MW-3 exceeded the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events.
3. Monitor Well MW-2, down-gradient, has shown consistently low chloride concentrations ranging from 56 mg/L to 66.8 mg/L. The up-gradient well, MW-3 has shown a fluctuation in chloride concentration ranging from 830 mg/L to 1,490 mg/L and appears to indicate an up-gradient source of groundwater impact. The historical data for MW-1, for the first 18 months of sampling, showed the chloride concentrations fluctuated between 177 mg/L and 886 mg/L. Then in January 2005, the chloride concentration jumped to 2,970 mg/L and has since ranged from 1,890 mg/L to 2,510 mg/L. Chloride concentrations decreased dramatically in MW-1 for the 3rd and 4th quarter sampling event (637 and 720 mg/L). Considering the concentration found in the upgradient monitor well, it appears that the impact to MW-1 may be at least somewhat affected by an up-gradient source of contamination.
4. Since it appears there is an upgradient source for the chloride concentrations, Rice will reissue the original closure report with the request of no additional groundwater monitoring.



Respectfully Submitted,
HIGHLANDER ENVIRONMENTAL CORP.


Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: ROC, Edward Hansen – NMOCD
Enclosures: Figures, Tables, Laboratory Analysis



FIGURES

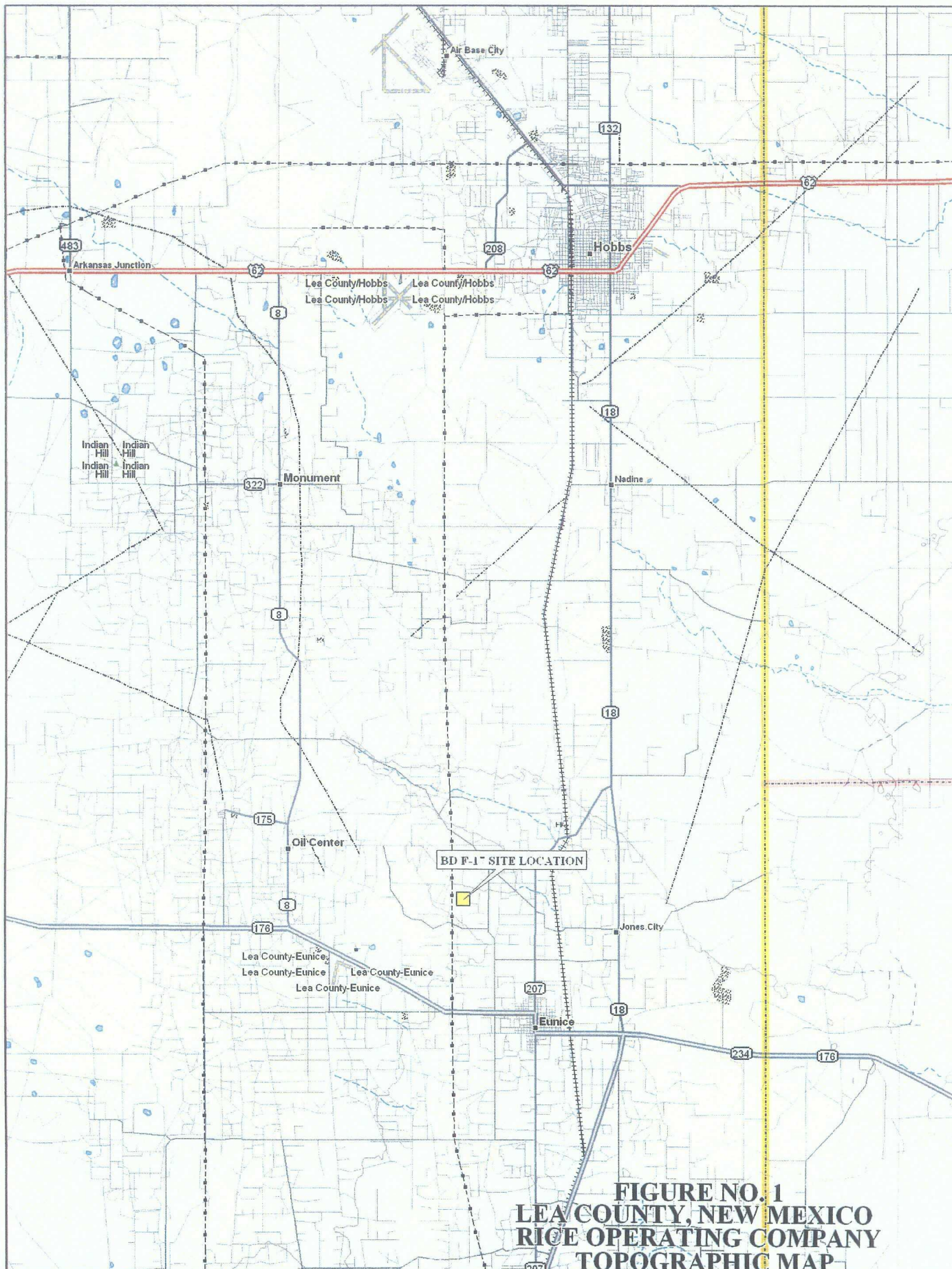
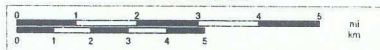


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP

Scale 1 : 200,000
 1" = 3.16 mi



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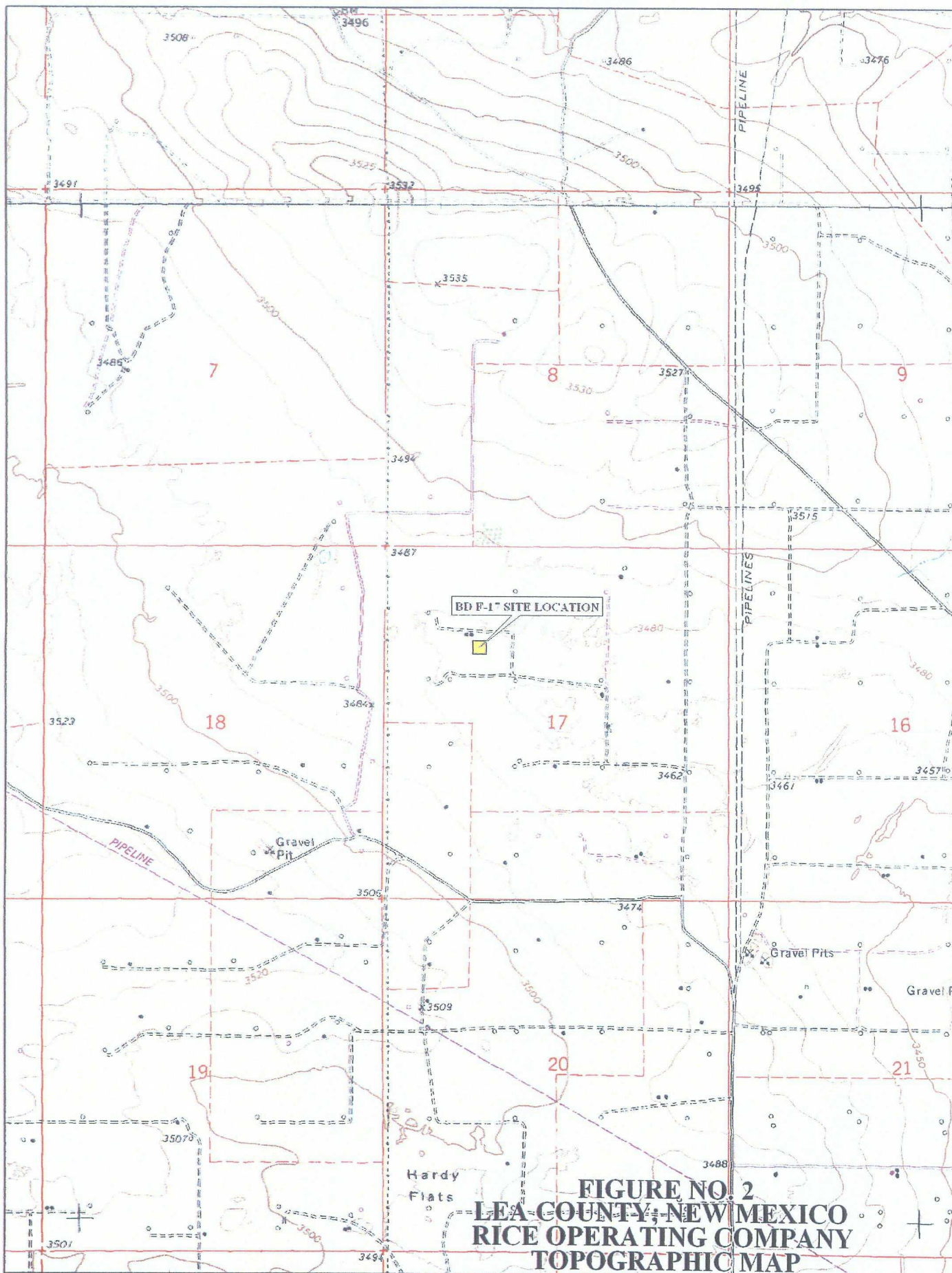
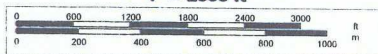


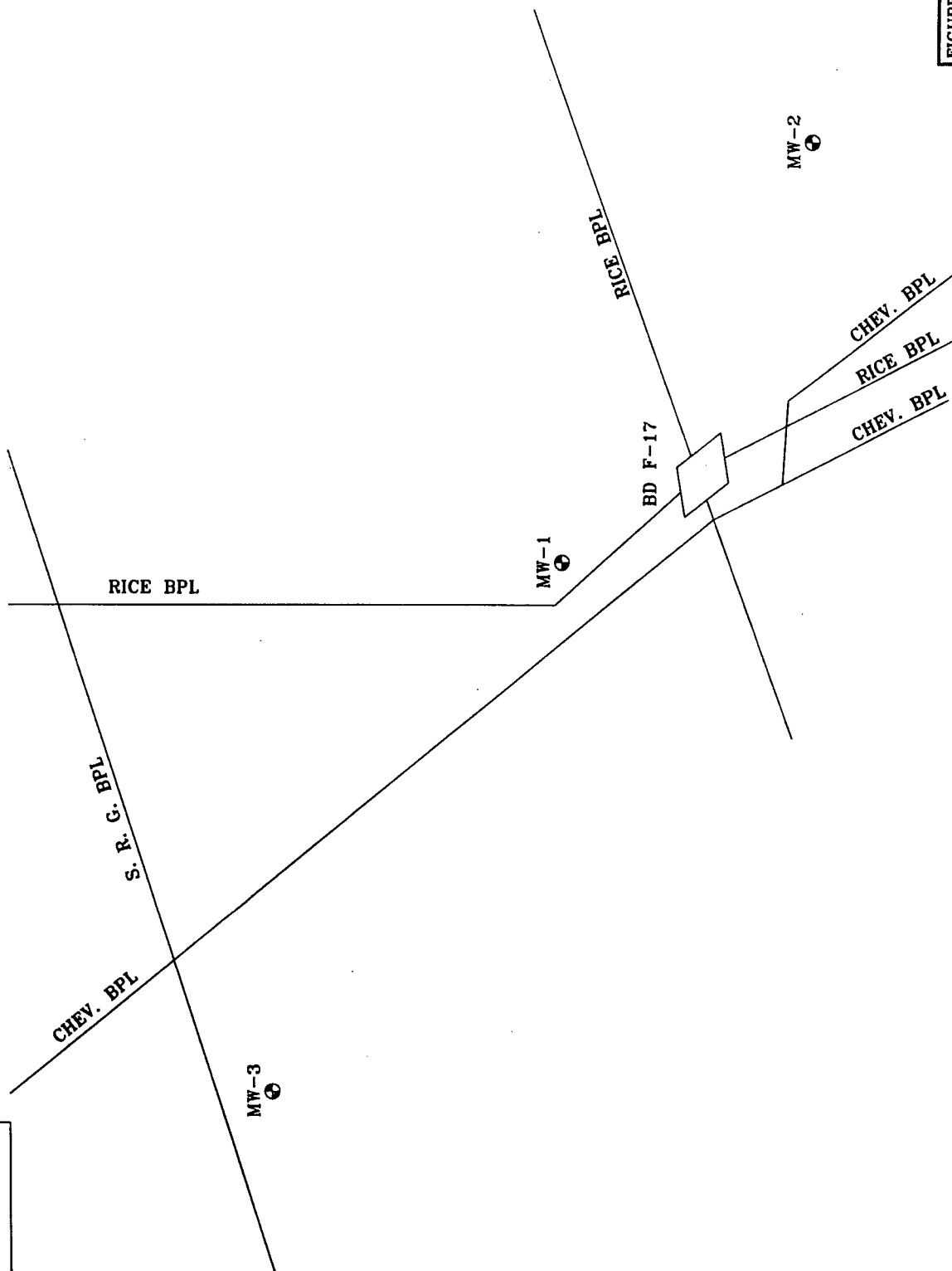
FIGURE NO. 2
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP



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www.delorme.com

Scale 1 : 24,000
 1" = 2000 ft





HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

FILE:
C:\FACET\2305
DATE 11/05

MONITOR WELL LOCATIONS

NOT TO SCALE



CHEVRON
TANK BATTERY

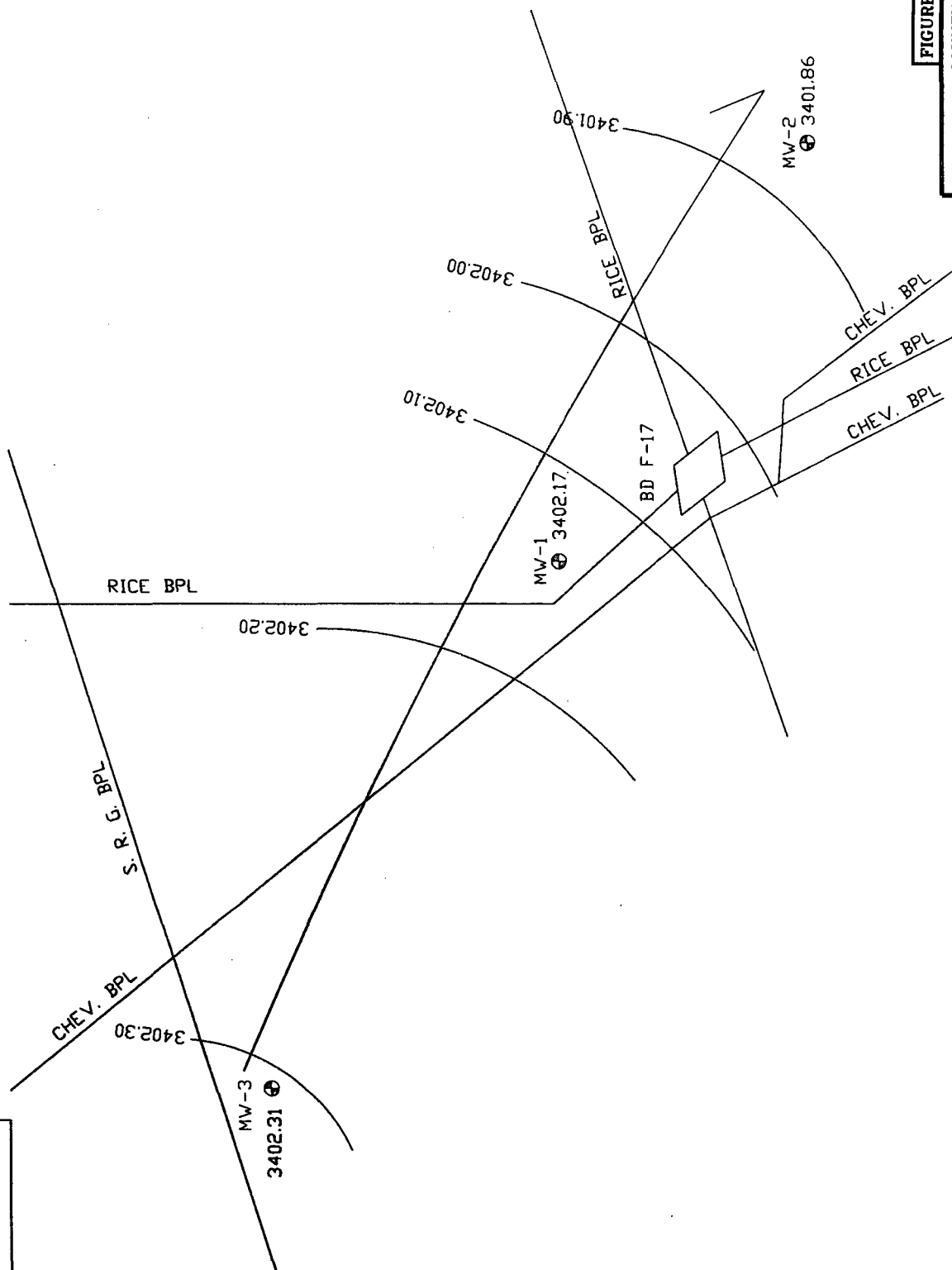


FIGURE NO. 4

| |
|--------------------------------|
| LEA COUNTY, NEW MEXICO |
| RICE OPERATING COMPANY |
| BD F-17 JUNCTION |
| GROUNDWATER GRADIENT MAP |
| GAUGED ON 2-6-07 |
| HIGHLANDER ENVIRONMENTAL CORP. |
| MIDLAND, TEXAS |

DWN. BY:
RC
FILE:
C:\NEX3005
SITE MAP

NOT TO SCALE

C.I. = 0.10'
MONITOR WELL LOCATIONS



CHEVRON
TANK BATTERY

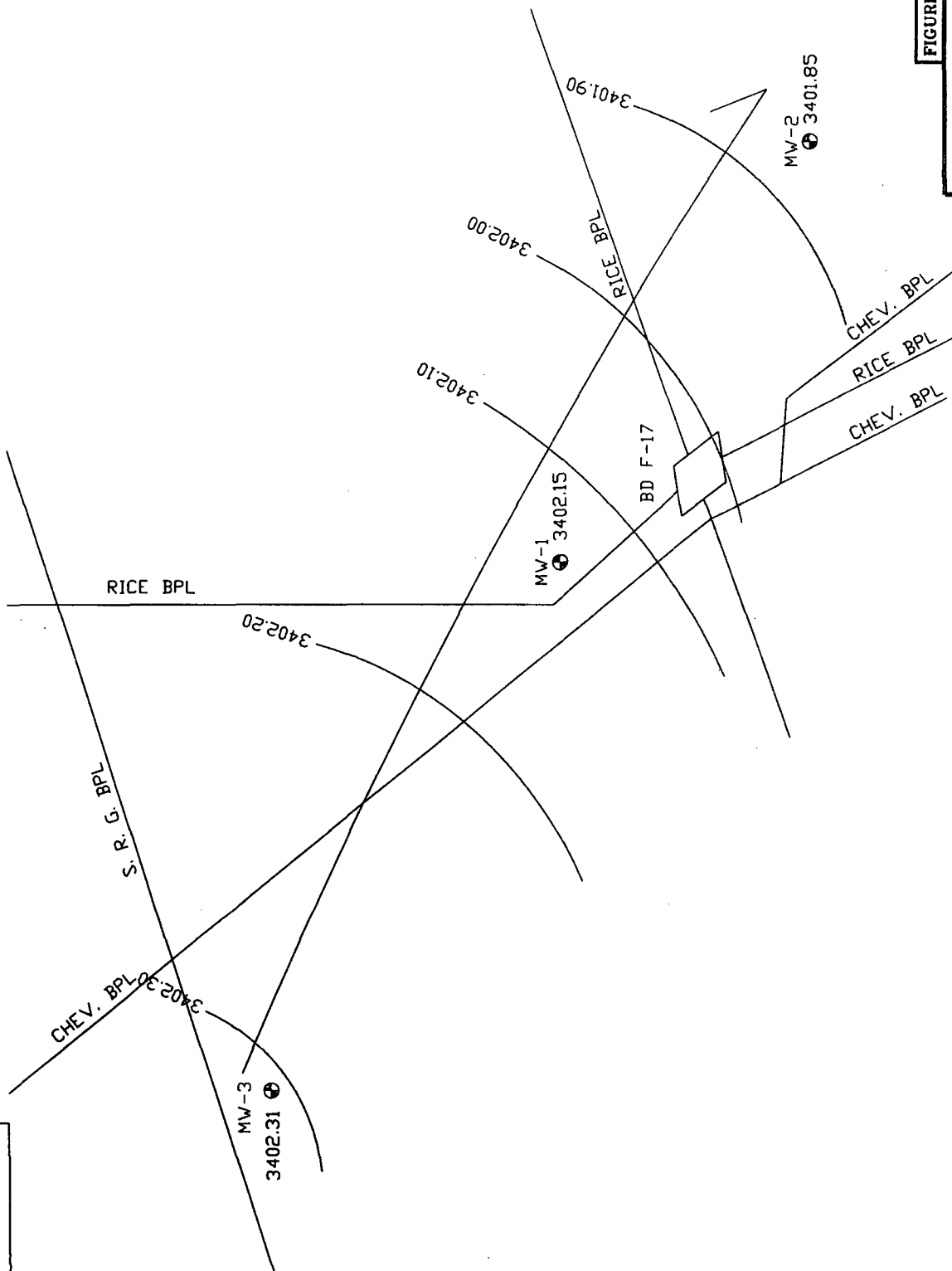


FIGURE NO. 5

| |
|--------------------------------|
| LEA COUNTY, NEW MEXICO |
| RICE OPERATING COMPANY |
| BD F-17 JUNCTION |
| GROUNDWATER GRADIENT MAP |
| GAUGED ON 4-16-07 |
| HIGHLANDER ENVIRONMENTAL CORP. |
| MIDLAND, TEXAS |

| | |
|-----------|-------------|
| DRAWN BY: | RC |
| FILE: | C:\NCE\1305 |
| SITE MAP | |

NOT TO SCALE

C.I. = 0.10'
MONITOR WELL LOCATIONS



CHEVRON
TANK BATTERY

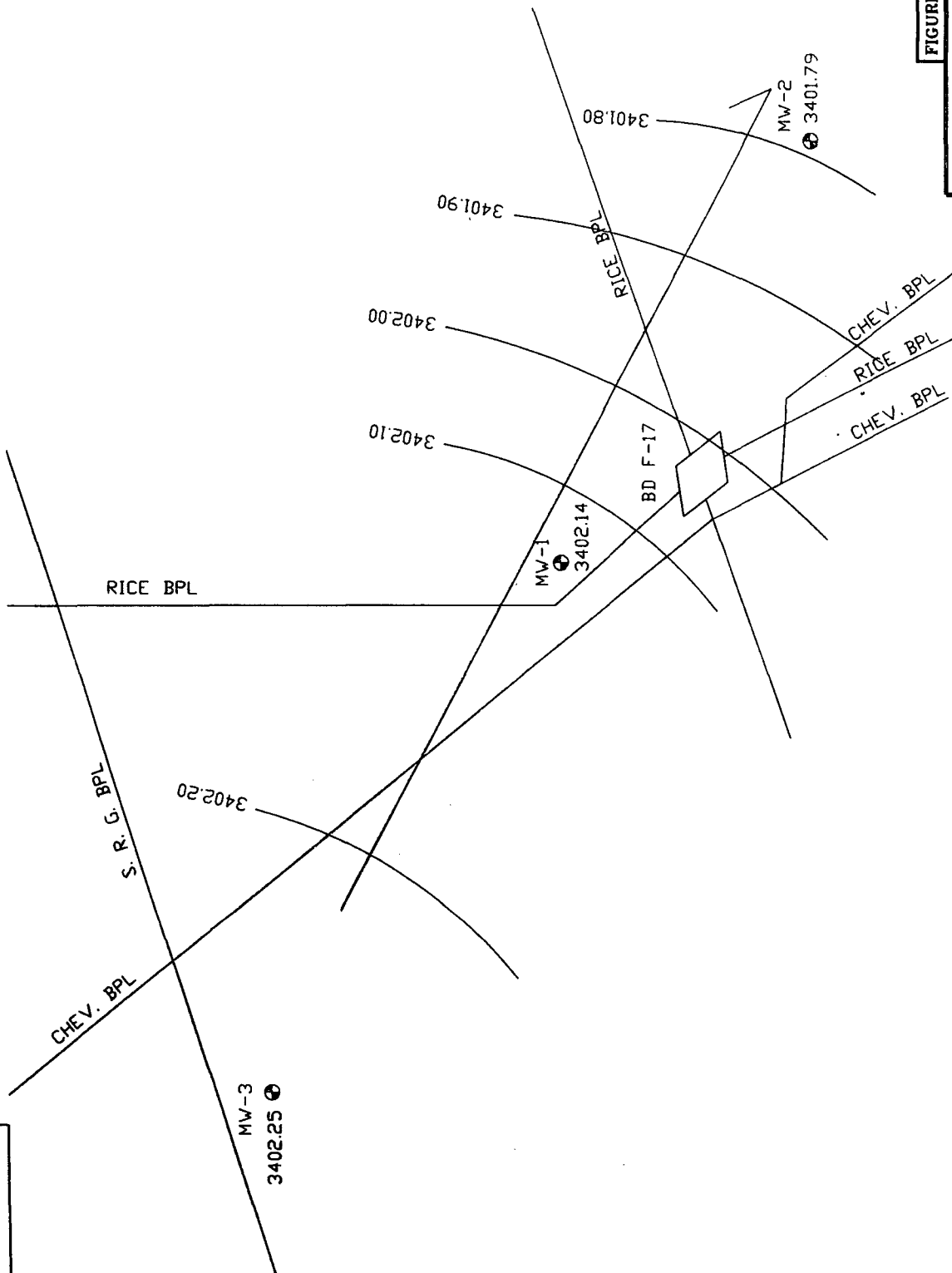


FIGURE NO. 6

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

BD F-17 JUNCTION
GROUNDWATER GRADIENT MAP
GAUGED ON 7-23-07

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DRAWN BY:
RC
FILE:
C:\env\3406
SITE MAP

NOT TO SCALE

C.I. = 0.10'
MONITOR WELL LOCATIONS



CHEVRON
TANK BATTERY

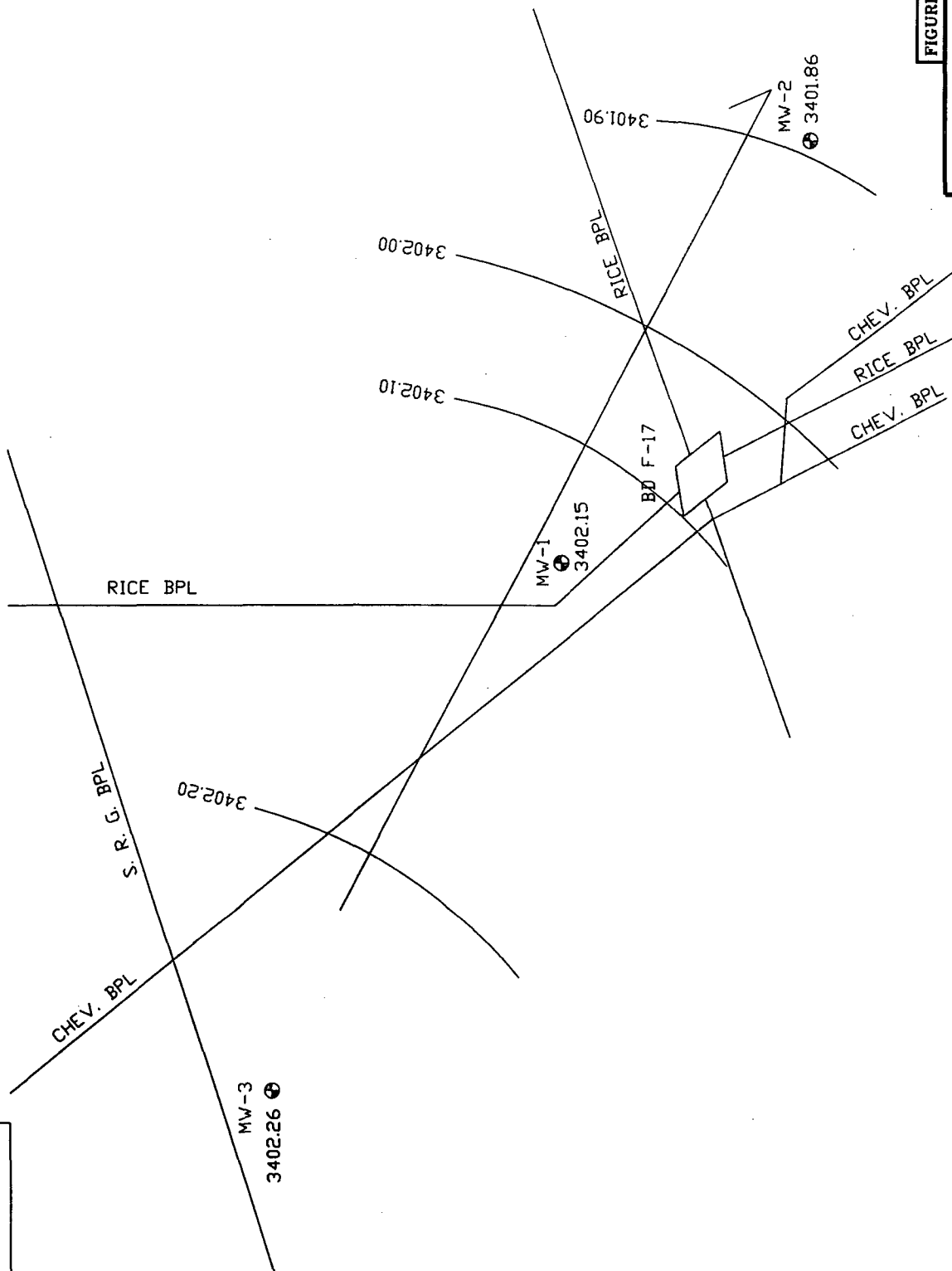


FIGURE NO. 7

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

BD F-17 JUNCTION
GROUNDWATER GRADIENT MAP
GAUGED ON 10-4-07

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DRAWN BY: RC
FILE: C:\MEX3305
SITE MAP

NOT TO SCALE

C.I. = 0.10'

● MONITOR WELL LOCATIONS

TABLES

Rice Engineering Operating
F-17

Lea County, New Mexico

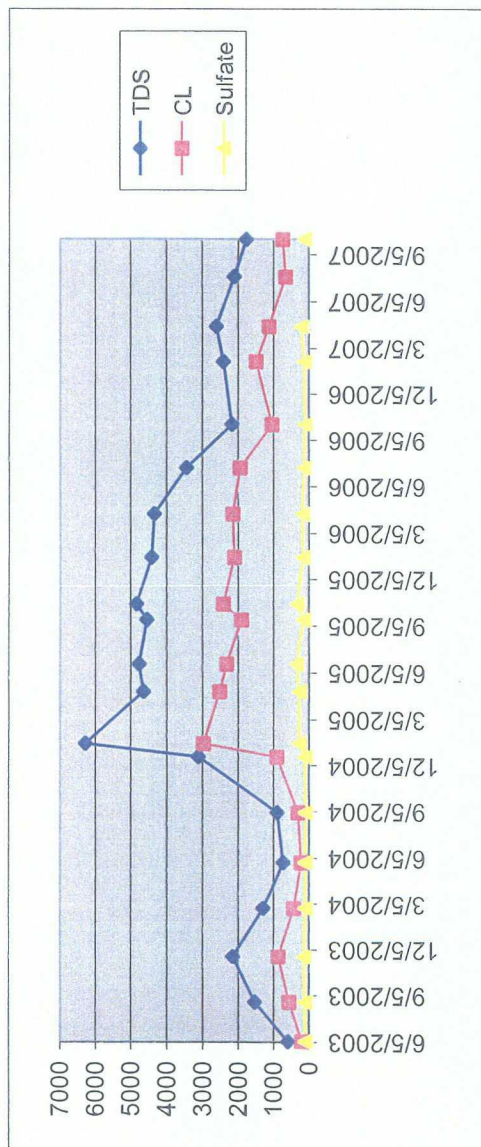
| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|------|------|---------|---------|---------------|---------------|---------|---------------|
| 1 | 75.67 | 85.20 | 1.5240 | 4.5 | 06/05/03 | 177 | 589 | <0.001 | <0.001 | <0.001 | <0.001 | 97.6 | |
| 1 | 75.73 | 85.12 | 1.50 | 4.5 | 08/22/03 | 549 | 1540 | <0.001 | <0.001 | <0.001 | <0.001 | 112 | |
| 1 | 75.75 | 84.85 | 1.456 | 4.3 | 11/20/03 | 851 | 2160 | <0.001 | <0.001 | <0.001 | <0.001 | 132 | |
| 1 | 75.73 | 84.48 | 1.40 | 4.2 | 02/25/04 | 415 | 1300 | <0.001 | <0.001 | <0.001 | <0.001 | 96.8 | |
| 1 | 71.75 | 85.12 | 2.13 | 6.4 | 05/27/04 | 195 | 726 | <0.001 | <0.001 | <0.001 | <0.001 | 97.8 | |
| 1 | 75.48 | 84.60 | 1.46 | 4.4 | 09/02/04 | 284 | 896 | <0.001 | <0.001 | <0.001 | <0.001 | 90.6 | Lt brown |
| 1 | 75.10 | 84.00 | 1.42 | 4.5 | 12/21/04 | 886 | 3120 | <0.001 | <0.001 | <0.001 | <0.001 | 96.2 | |
| 1 | 75.18 | 84.07 | 1.42 | 4.26 | 01/16/05 | 2970 | 6280 | <0.001 | <0.001 | <0.001 | <0.001 | 257 | Re-sample |
| 1 | 75.21 | 84.20 | 1.44 | 5.0 | 04/28/05 | 2510 | 4640 | <0.001 | <0.001 | <0.001 | <0.001 | 259 | |
| 1 | 75.20 | 84.15 | 1.43 | 10.0 | 06/21/05 | 2310 | 4770 | <0.001 | <0.001 | <0.001 | <0.001 | 339 | |
| 1 | 75.21 | 84.20 | 1.40 | 12.0 | 09/16/05 | 1890 | 4540 | <0.001 | <0.001 | <0.001 | <0.001 | 147 | |
| 1 | 75.20 | 84.20 | 1.40 | 5.0 | 10/17/05 | 2400 | 4830 | <0.001 | <0.001 | <0.001 | <0.001 | 319 | |
| 1 | 85.15 | 84.20 | 1.40 | 8.0 | 01/16/06 | 2090 | 4410 | <0.001 | <0.001 | <0.001 | <0.001 | 154 | Silt to clear |
| 1 | 75.20 | 84.20 | 1.40 | 8.0 | 04/11/06 | 2130 | 4340 | <0.001 | <0.001 | <0.001 | <0.001 | 167 | Silt to clear |
| 1 | 75.22 | 84.20 | 1.40 | 10.0 | 07/11/06 | 1930 | 3440 | <0.001 | <0.001 | <0.001 | <0.001 | 126 | Clear |
| 1 | 75.22 | 84.20 | 1.40 | 10.0 | 10/05/06 | 1020 | 2170 | <0.001 | <0.001 | <0.001 | <0.001 | 98.1 | Clear |
| 1 | 75.22 | 87.35 | 1.90 | 8.0 | 02/06/07 | 1480 | 2410 | <0.001 | <0.001 | <0.001 | <0.001 | 120 | Clear |
| 1 | 75.24 | 87.35 | 1.90 | 8.0 | 04/16/07 | 1110 | 2610 | <0.001 | <0.001 | <0.001 | <0.001 | 202 | Clear |
| 1 | 75.25 | 87.35 | 1.90 | 8.0 | 07/23/07 | 637 | 2110 | <0.001 | <0.001 | <0.001 | <0.001 | | Clear |
| 1 | 75.24 | 87.35 | 1.90 | 8.0 | 10/04/07 | 720 | 1765 | <0.001 | <0.001 | <0.001 | <0.003 | 107 | Clear |

Rice Engineering Operating

F-17

Lea County, New Mexico

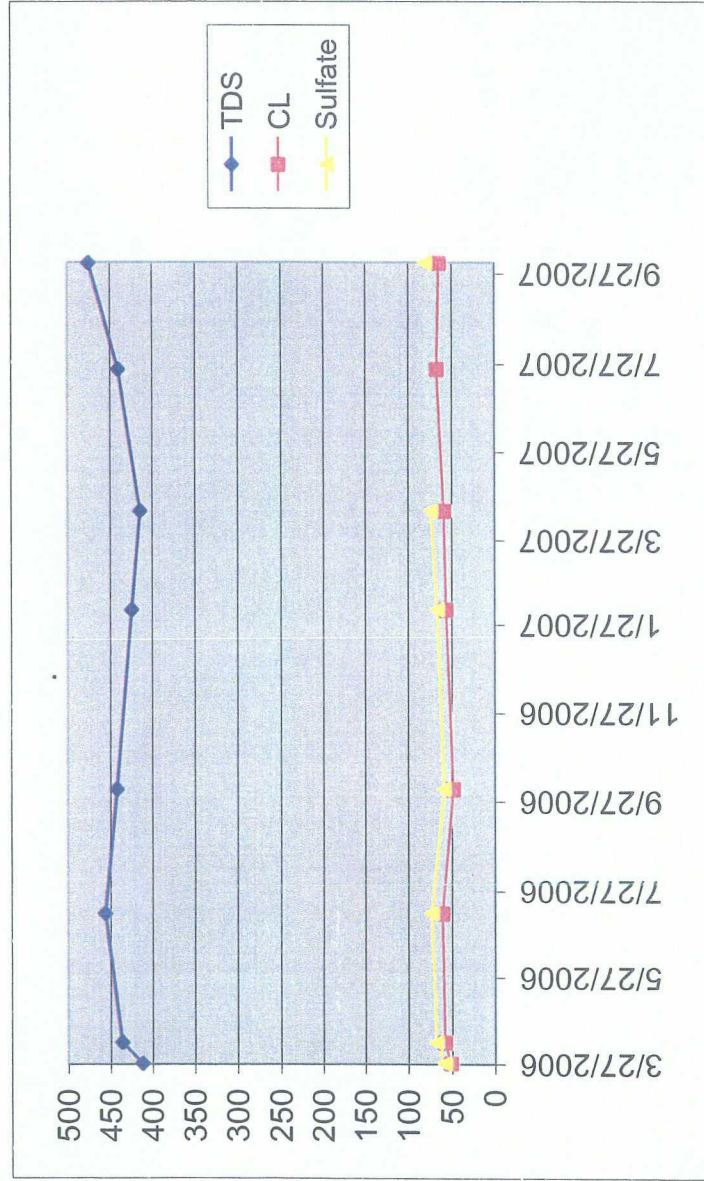
MW-1



Rice Engineering Operating
F-17

Lea County, New Mexico

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | CI | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|------|-----|---------|---------|---------------|---------------|---------|---------------|
| 2 | 75.55 | 90.00 | 2.30 | 10.0 | 03/27/06 | 50.8 | 412 | <0.001 | <0.001 | <0.001 | <0.001 | 58.4 | |
| 2 | 75.90 | 90.00 | 2.30 | 10.0 | 04/11/06 | 57.9 | 436 | <0.001 | <0.001 | <0.001 | <0.001 | 68.2 | |
| 2 | 75.60 | 90.00 | 2.30 | 10.0 | 07/11/06 | 60.5 | 456 | <0.001 | <0.001 | <0.001 | <0.001 | 73.3 | |
| 2 | 75.62 | 90.00 | 2.30 | 10.0 | 10/05/06 | 47.6 | 442 | <0.001 | <0.001 | <0.001 | <0.001 | 59.2 | Clear no odor |
| 2 | 75.61 | 89.44 | 2.20 | 10.0 | 02/06/07 | 56 | 424 | <0.001 | <0.001 | <0.001 | <0.001 | 66.5 | Clear no odor |
| 2 | 75.62 | 89.44 | 2.20 | 8.0 | 04/16/07 | 58.5 | 414 | <0.001 | <0.001 | <0.001 | <0.001 | 74.2 | Clear no odor |
| 2 | 75.68 | 89.44 | 2.20 | 8.0 | 07/23/07 | 66.8 | 440 | <0.001 | <0.001 | <0.001 | <0.001 | | Sandy |
| 2 | 75.61 | 89.44 | 2.20 | 8.0 | 10/04/07 | 64 | 475 | <0.001 | <0.001 | <0.001 | <0.003 | 80.5 | Clear no odor |

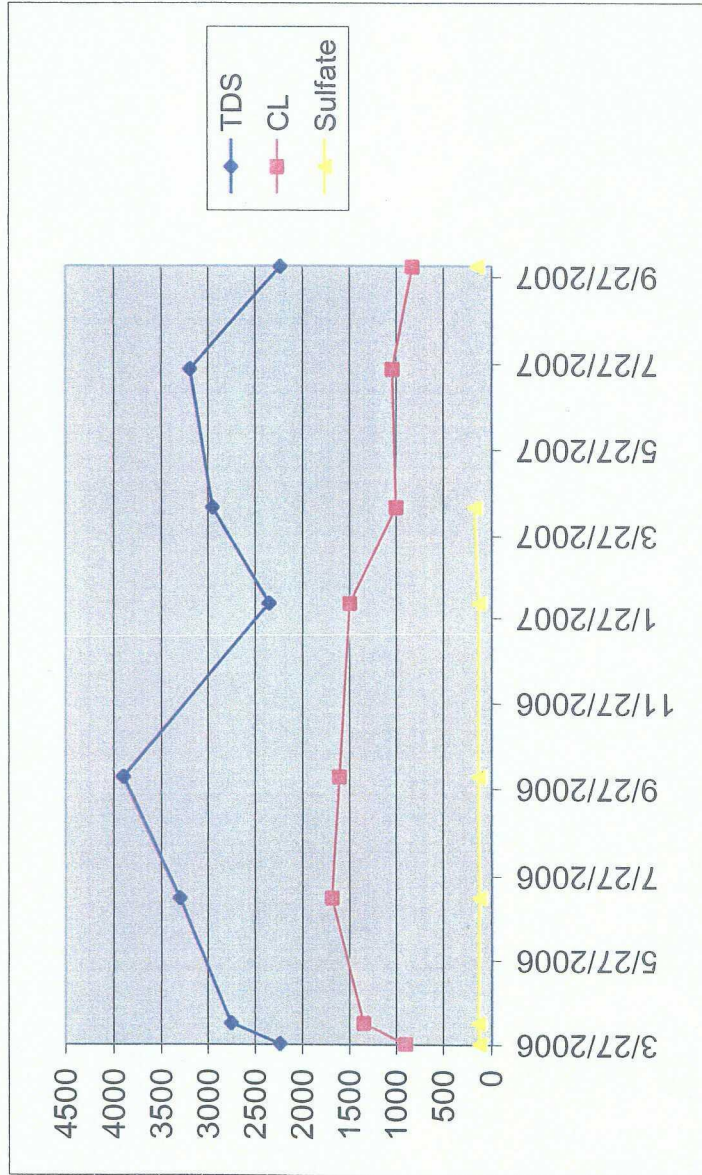


Rice Engineering Operating

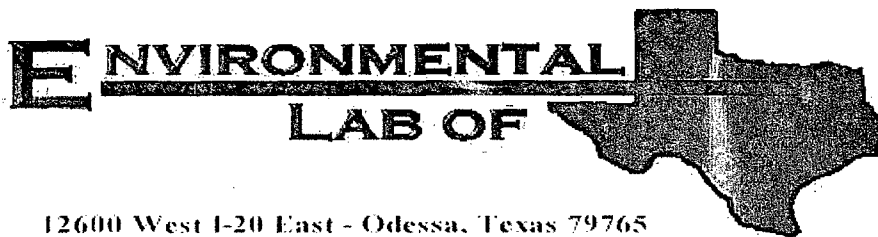
F-17

Lea County, New Mexico

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|------|------|---------|---------|---------------|---------------|---------|----------|
| 3 | 73.91 | 88.00 | 2.30 | 10.0 | 03/27/06 | 901 | 2240 | <0.001 | <0.001 | <0.001 | <0.001 | 126 | |
| 3 | 73.93 | 88.00 | 2.30 | 10.0 | 04/11/06 | 1340 | 2750 | <0.001 | <0.001 | <0.001 | <0.001 | 138 | |
| 3 | 73.91 | 88.00 | 2.30 | 10.0 | 07/11/06 | 1680 | 3300 | <0.001 | <0.001 | <0.001 | <0.001 | 125 | |
| 3 | 73.95 | 88.00 | 2.20 | 10.0 | 10/05/06 | 1600 | 3900 | <0.001 | <0.001 | <0.001 | <0.001 | 134 | Clear |
| 3 | 73.92 | 87.84 | 2.20 | 10.0 | 02/06/07 | 1490 | 2350 | <0.001 | <0.001 | <0.001 | <0.001 | 132 | Clear |
| 3 | 73.92 | 87.84 | 2.20 | 10.0 | 04/16/07 | 999 | 2950 | <0.001 | <0.001 | <0.001 | <0.001 | 177 | Clear |
| 3 | 73.98 | 87.84 | 2.20 | 8.0 | 07/23/07 | 1040 | 3190 | <0.001 | <0.001 | <0.001 | <0.002 | | Clear |
| 3 | 73.97 | 87.84 | 2.20 | 8.0 | 10/04/07 | 830 | 2235 | <0.001 | <0.001 | <0.001 | <0.003 | 150 | Clear |



APPENDIX A



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Junction F-17

Project Number: None Given

Location: T17S R37E Sec17 F ~ Lea County New Mexico

Lab Order Number: 7B09004

Report Date: 02/19/07

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|----------------|------------------|
| Monitor Well #1 | 7B09004-01 | Water | 02/06/07 10:20 | 02-08-2007 16:50 |
| Monitor Well #2 | 7B09004-02 | Water | 02/06/07 09:25 | 02-08-2007 16:50 |
| Monitor Well #3 | 7B09004-03 | Water | 02/06/07 11:10 | 02-08-2007 16:50 |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1 (7B09004-01) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EB71210 | 02/12/07 | 02/13/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 84.8 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 82.0 % | 80-120 | | " | " | " | " | |
| Monitor Well #2 (7B09004-02) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EB71210 | 02/12/07 | 02/13/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 83.6 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80.8 % | 80-120 | | " | " | " | " | |
| Monitor Well #3 (7B09004-03) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EB71210 | 02/12/07 | 02/13/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 82.8 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 80.6 % | 80-120 | | " | " | " | " | |

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| Monitor Well #1 (7B09004-01) Water | | | | | | | | | |
| Total Alkalinity | 212 | 2.00 | mg/L | 1 | EB71213 | 02/10/07 | 02/10/07 | EPA 310.1M | |
| Chloride | 1480 | 25.0 | " | 50 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |
| Total Dissolved Solids | 2410 | 10.0 | " | 1 | EB71003 | 02/09/07 | 02/10/07 | EPA 160.1 | |
| Sulfate | 120 | 25.0 | " | 50 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |
| Monitor Well #2 (7B09004-02) Water | | | | | | | | | |
| Total Alkalinity | 182 | 2.00 | mg/L | 1 | EB71213 | 02/10/07 | 02/10/07 | EPA 310.1M | |
| Chloride | 56.0 | 5.00 | " | 10 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |
| Total Dissolved Solids | 424 | 10.0 | " | 1 | EB71003 | 02/09/07 | 02/10/07 | EPA 160.1 | |
| Sulfate | 66.5 | 5.00 | " | 10 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |
| Monitor Well #3 (7B09004-03) Water | | | | | | | | | |
| Total Alkalinity | 280 | 2.00 | mg/L | 1 | EB71213 | 02/10/07 | 02/10/07 | EPA 310.1M | |
| Chloride | 1490 | 25.0 | " | 50 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |
| Total Dissolved Solids | 2350 | 10.0 | " | 1 | EB71003 | 02/09/07 | 02/10/07 | EPA 160.1 | |
| Sulfate | 132 | 25.0 | " | 50 | EB71202 | 02/12/07 | 02/13/07 | EPA 300.0 | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1 (7B09004-01) Water | | | | | | | | | |
| Calcium | 234 | 4.05 | mg/L | 50 | EB70903 | 02/09/07 | 02/09/07 | EPA 6010B | |
| Magnesium | 118 | 1.80 | " | " | " | " | " | " | |
| Potassium | 10.1 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 586 | 2.15 | " | 50 | " | " | " | " | |
| Monitor Well #2 (7B09004-02) Water | | | | | | | | | |
| Calcium | 41.8 | 0.810 | mg/L | 10 | EB70903 | 02/09/07 | 02/09/07 | EPA 6010B | |
| Magnesium | 19.4 | 0.360 | " | " | " | " | " | " | |
| Potassium | 3.55 | 0.600 | " | " | " | " | " | " | |
| Sodium | 55.1 | 2.15 | " | 50 | " | " | " | " | |
| Monitor Well #3 (7B09004-03) Water | | | | | | | | | |
| Calcium | 353 | 4.05 | mg/L | 50 | EB70903 | 02/09/07 | 02/09/07 | EPA 6010B | |
| Magnesium | 148 | 1.80 | " | " | " | " | " | " | |
| Potassium | 14.3 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 378 | 2.15 | " | 50 | " | " | " | " | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|---------------------------------------|------------------|---------------------------------------|----------------|-----|--------------|-------|
| Batch EB71210 - EPA 5030C (GC) | | | | | | | | | | |
| Blank (EB71210-BLK1) | | | | | | | | | | |
| | | | | Prepared: 02/12/07 Analyzed: 02/13/07 | | | | | | |
| Benzene | ND | 0.00100 | mg/L | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00100 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 42.1 | | ug/l | 50.0 | | 84.2 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.1 | | " | 50.0 | | 88.2 | 80-120 | | | |
| LCS (EB71210-BS1) | | | | | | | | | | |
| | | | | Prepared: 02/12/07 Analyzed: 02/13/07 | | | | | | |
| Benzene | 0.0473 | 0.00100 | mg/L | 0.0500 | | 94.6 | 80-120 | | | |
| Toluene | 0.0462 | 0.00100 | " | 0.0500 | | 92.4 | 80-120 | | | |
| Ethylbenzene | 0.0424 | 0.00100 | " | 0.0500 | | 84.8 | 80-120 | | | |
| Xylene (p/m) | 0.0971 | 0.00100 | " | 0.100 | | 97.1 | 80-120 | | | |
| Xylene (o) | 0.0411 | 0.00100 | " | 0.0500 | | 82.2 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 42.9 | | ug/l | 50.0 | | 85.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 45.4 | | " | 50.0 | | 90.8 | 80-120 | | | |
| Calibration Check (EB71210-CCV1) | | | | | | | | | | |
| | | | | Prepared: 02/12/07 Analyzed: 02/14/07 | | | | | | |
| Benzene | 54.3 | | ug/l | 50.0 | | 109 | 80-120 | | | |
| Toluene | 51.1 | | " | 50.0 | | 102 | 80-120 | | | |
| Ethylbenzene | 48.1 | | " | 50.0 | | 96.2 | 80-120 | | | |
| Xylene (p/m) | 93.3 | | " | 100 | | 93.3 | 80-120 | | | |
| Xylene (o) | 40.3 | | " | 50.0 | | 80.6 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 50.2 | | " | 50.0 | | 100 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.3 | | " | 50.0 | | 88.6 | 80-120 | | | |
| Matrix Spike (EB71210-MS1) | | | | | | | | | | |
| | | | | Source: 7B09003-01 | | Prepared: 02/12/07 Analyzed: 02/14/07 | | | | |
| Benzene | 0.0448 | 0.00100 | mg/L | 0.0500 | ND | 89.6 | 80-120 | | | |
| Toluene | 0.0427 | 0.00100 | " | 0.0500 | ND | 85.4 | 80-120 | | | |
| Ethylbenzene | 0.0409 | 0.00100 | " | 0.0500 | ND | 81.8 | 80-120 | | | |
| Xylene (p/m) | 0.0831 | 0.00100 | " | 0.100 | ND | 83.1 | 80-120 | | | |
| Xylene (o) | 0.0406 | 0.00100 | " | 0.0500 | ND | 81.2 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 42.5 | | ug/l | 50.0 | | 85.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 41.2 | | " | 50.0 | | 82.4 | 80-120 | | | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch EB71210 - EPA 5030C (GC)

| Matrix Spike Dup (EB71210-MSD1) | | Source: 7B09003-01 | | Prepared: 02/12/07 | | Analyzed: 02/14/07 | | | | |
|-----------------------------------|--------|--------------------|------|--------------------|----|--------------------|--------|------|----|--|
| Benzene | 0.0439 | 0.00100 | mg/L | 0.0500 | ND | 87.8 | 80-120 | 2.03 | 20 | |
| Toluene | 0.0420 | 0.00100 | " | 0.0500 | ND | 84.0 | 80-120 | 1.65 | 20 | |
| Ethylbenzene | 0.0417 | 0.00100 | " | 0.0500 | ND | 83.4 | 80-120 | 1.94 | 20 | |
| Xylene (p/m) | 0.0817 | 0.00100 | " | 0.100 | ND | 81.7 | 80-120 | 1.70 | 20 | |
| Xylene (o) | 0.0400 | 0.00100 | " | 0.0500 | ND | 80.0 | 80-120 | 1.49 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 41.0 | | ug/l | 50.0 | | 82.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 40.3 | | " | 50.0 | | 80.6 | 80-120 | | | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch EB71003 - Filtration Preparation

Blank (EB71003-BLK1) Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (EB71003-DUP1) Source: 7B09002-01 Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids 852 10.0 mg/L 908 6.36 20

Duplicate (EB71003-DUP2) Source: 7B09006-02 Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids 1550 10.0 mg/L 1420 8.75 20

Batch EB71202 - General Preparation (WetChem)

Blank (EB71202-BLK2) Prepared: 02/12/07 Analyzed: 02/13/07

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

LCS (EB71202-BS1) Prepared: 02/12/07 Analyzed: 02/13/07

Chloride 10.5 0.500 mg/L 10.0 105 80-120

Sulfate 11.1 0.500 " 10.0 111 80-120

Calibration Check (EB71202-CCV1) Prepared: 02/12/07 Analyzed: 02/13/07

Sulfate 10.1 mg/L 10.0 101 80-120

Chloride 10.3 " 10.0 103 80-120

Duplicate (EB71202-DUP1) Source: 7B09002-01RE1 Prepared: 02/12/07 Analyzed: 02/13/07

Sulfate 20.3 10.0 mg/L 21.0 3.39 20

Chloride 33.3 10.0 " 36.8 9.99 20

Duplicate (EB71202-DUP2) Source: 7B09006-02 Prepared: 02/12/07 Analyzed: 02/13/07

Chloride 566 12.5 mg/L 576 1.75 20

Sulfate 265 12.5 " 268 1.13 20

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch EB71202 - General Preparation (WetChem)

Matrix Spike (EB71202-MS1) Source: 7B09002-01RE1 Prepared: 02/12/07 Analyzed: 02/13/07

| | | | | | | | | | | |
|----------|-----|------|------|-----|------|-----|--------|--|--|--|
| Sulfate | 256 | 10.0 | mg/L | 200 | 21.0 | 118 | 80-120 | | | |
| Chloride | 255 | 10.0 | " | 200 | 36.8 | 109 | 80-120 | | | |

Matrix Spike (EB71202-MS2) Source: 7B09006-02 Prepared: 02/12/07 Analyzed: 02/13/07

| | | | | | | | | | | |
|----------|-----|------|------|-----|-----|-----|--------|--|--|--|
| Sulfate | 533 | 12.5 | mg/L | 250 | 268 | 106 | 80-120 | | | |
| Chloride | 845 | 12.5 | " | 250 | 576 | 108 | 80-120 | | | |

Batch EB71213 - General Preparation (WetChem)

Blank (EB71213-BLK1) Prepared & Analyzed: 02/10/07

| | | | | | | | | | | |
|------------------|----|------|------|--|--|--|--|--|--|--|
| Total Alkalinity | ND | 2.00 | mg/L | | | | | | | |
|------------------|----|------|------|--|--|--|--|--|--|--|

LCS (EB71213-BS1) Prepared & Analyzed: 02/10/07

| | | | | | | | | | | |
|------------------------|-----|------|------|-----|--|------|--------|--|--|--|
| Bicarbonate Alkalinity | 194 | 2.00 | mg/L | 200 | | 97.0 | 85-115 | | | |
|------------------------|-----|------|------|-----|--|------|--------|--|--|--|

Duplicate (EB71213-DUP1) Source: 7B09002-01 Prepared & Analyzed: 02/10/07

| | | | | | | | | | | |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|
| Total Alkalinity | 226 | 2.00 | mg/L | | 228 | | | 0.881 | 20 | |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|

Reference (EB71213-SRM1) Prepared & Analyzed: 02/10/07

| | | | | | | | | | | |
|------------------|-----|--|------|-----|--|-----|--------|--|--|--|
| Total Alkalinity | 250 | | mg/L | 250 | | 100 | 90-110 | | | |
|------------------|-----|--|------|-----|--|-----|--------|--|--|--|

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch EB70903 - 6010B/No Digestion

Blank (EB70903-BLK1)

Prepared & Analyzed: 02/09/07

| | | | | | | | | | | |
|-----------|----|--------|------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0810 | mg/L | | | | | | | |
| Magnesium | ND | 0.0360 | " | | | | | | | |
| Potassium | ND | 0.0600 | " | | | | | | | |
| Sodium | ND | 0.0430 | " | | | | | | | |

Calibration Check (EB70903-CCV1)

Prepared & Analyzed: 02/09/07

| | | | | | | | | | | |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium | 2.10 | | mg/L | 2.00 | | 105 | 85-115 | | | |
| Magnesium | 2.17 | | " | 2.00 | | 108 | 85-115 | | | |
| Potassium | 1.73 | | " | 2.00 | | 86.5 | 85-115 | | | |
| Sodium | 1.78 | | " | 2.00 | | 89.0 | 85-115 | | | |

Duplicate (EB70903-DUP1)

Source: 7B09002-01

Prepared & Analyzed: 02/09/07

| | | | | | | | | | | |
|-----------|------|-------|------|--|------|--|--|------|----|--|
| Calcium | 139 | 4.05 | mg/L | | 137 | | | 1.45 | 20 | |
| Magnesium | 25.4 | 0.360 | " | | 26.3 | | | 3.48 | 20 | |
| Potassium | 2.51 | 0.600 | " | | 2.58 | | | 2.75 | 20 | |
| Sodium | 108 | 2.15 | " | | 110 | | | 1.83 | 20 | |

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Junction F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 2/19/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Ride Op.
Date/ Time: 2/8/07 4:50
Lab ID #: 7B69004
Initials: UK

Sample Receipt Checklist

| | | | | Client Initials | |
|-----|--|----------------|----|--------------------------|--|
| #1 | Temperature of container/ cooler? | Yes | No | 2.5 °C | |
| #2 | Shipping container in good condition? | Yes | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 | Chain of Custody present? | Yes | No | | |
| #6 | Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 | Containers supplied by EL0T? | Yes | No | | |
| #12 | Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 | Samples properly preserved? | Yes | No | See Below | |
| #14 | Sample bottles intact? | Yes | No | | |
| #15 | Preservations documented on Chain of Custody? | Yes | No | | |
| #16 | Containers documented on Chain of Custody? | Yes | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 | All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

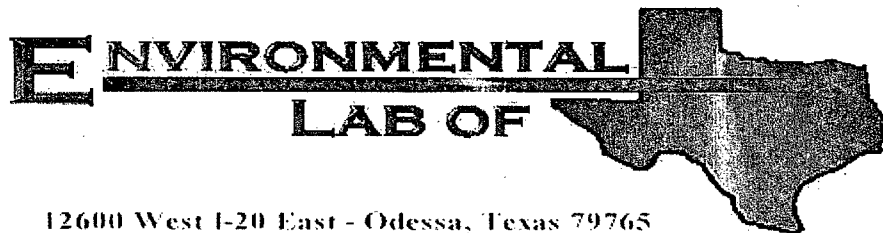
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Jct. F-17

Project Number: None Given

Location: T21S R37E Sec17 F ~ Lea County New Mexico

Lab Order Number: 7D18020

Report Date: 05/04/07

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------------|---------------|--------|----------------|------------------|
| Monitor Well # 1 | 7D18020-01 | Water | 04/16/07 10:10 | 04-18-2007 14:55 |
| Monitor Well # 2 | 7D18020-02 | Water | 04/16/07 09:15 | 04-18-2007 14:55 |
| Monitor Well # 3 | 7D18020-03 | Water | 04/16/07 11:20 | 04-18-2007 14:55 |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| Monitor Well # 1 (7D18020-01) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | ED72007 | 04/20/07 | 04/24/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 117 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 112 % | 80-120 | | " | " | " | " | |
| Monitor Well # 2 (7D18020-02) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | ED72007 | 04/20/07 | 04/24/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 116 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 80-120 | | " | " | " | " | |
| Monitor Well # 3 (7D18020-03) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | ED72007 | 04/20/07 | 04/24/07 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 121 % | 80-120 | | " | " | " | " | S-04 |
| Surrogate: 4-Bromofluorobenzene | | 112 % | 80-120 | | " | " | " | " | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| Monitor Well # 1 (7D18020-01) Water | | | | | | | | | |
| Total Alkalinity | 216 | 2.00 | mg/L | 1 | ED71913 | 04/19/07 | 04/19/07 | EPA 310.1M | |
| Chloride | 1110 | 25.0 | " | 50 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |
| Total Dissolved Solids | 2610 | 10.0 | " | 1 | ED72104 | 04/21/07 | 04/23/07 | EPA 160.1 | |
| Sulfate | 202 | 25.0 | " | 50 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |
| Monitor Well # 2 (7D18020-02) Water | | | | | | | | | |
| Total Alkalinity | 194 | 2.00 | mg/L | 1 | ED71913 | 04/19/07 | 04/19/07 | EPA 310.1M | |
| Chloride | 58.5 | 5.00 | " | 10 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |
| Total Dissolved Solids | 414 | 10.0 | " | 1 | ED72104 | 04/21/07 | 04/23/07 | EPA 160.1 | |
| Sulfate | 74.2 | 5.00 | " | 10 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |
| Monitor Well # 3 (7D18020-03) Water | | | | | | | | | |
| Total Alkalinity | 248 | 2.00 | mg/L | 1 | ED71913 | 04/19/07 | 04/19/07 | EPA 310.1M | |
| Chloride | 999 | 12.5 | " | 25 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |
| Total Dissolved Solids | 2950 | 10.0 | " | 1 | ED72104 | 04/21/07 | 04/23/07 | EPA 160.1 | |
| Sulfate | 177 | 12.5 | " | 25 | ED72411 | 04/24/07 | 04/27/07 | EPA 300.0 | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well # 1 (7D18020-01) Water | | | | | | | | | |
| Calcium | 229 | 4.05 | mg/L | 50 | ED72703 | 04/27/07 | 04/27/07 | EPA 6010B | |
| Magnesium | 122 | 1.80 | " | " | " | " | " | " | |
| Potassium | 8.29 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 343 | 4.30 | " | 100 | " | " | " | " | |
| Monitor Well # 2 (7D18020-02) Water | | | | | | | | | |
| Calcium | 42.6 | 0.810 | mg/L | 10 | ED72703 | 04/27/07 | 04/27/07 | EPA 6010B | |
| Magnesium | 20.6 | 0.360 | " | " | " | " | " | " | |
| Potassium | 4.03 | 0.600 | " | " | " | " | " | " | |
| Sodium | 63.7 | 0.430 | " | " | " | " | " | " | |
| Monitor Well # 3 (7D18020-03) Water | | | | | | | | | |
| Calcium | 310 | 4.05 | mg/L | 50 | ED72703 | 04/27/07 | 04/27/07 | EPA 6010B | |
| Magnesium | 136 | 1.80 | " | " | " | " | " | " | |
| Potassium | 9.94 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 271 | 4.30 | " | 100 | " | " | " | " | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch ED72007 - EPA 5030C (GC) | | | | | | | | | | |
| Blank (ED72007-BLK1) | | | | | | | | | | |
| Prepared: 04/20/07 Analyzed: 04/24/07 | | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00100 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 57.6 | | ug/l | 50.0 | | 115 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 57.5 | | " | 50.0 | | 115 | 80-120 | | | |
| LCS (ED72007-BS1) | | | | | | | | | | |
| Prepared: 04/20/07 Analyzed: 04/24/07 | | | | | | | | | | |
| Benzene | 0.0528 | 0.00100 | mg/L | 0.0500 | | 106 | 80-120 | | | |
| Toluene | 0.0551 | 0.00100 | " | 0.0500 | | 110 | 80-120 | | | |
| Ethylbenzene | 0.0567 | 0.00100 | " | 0.0500 | | 113 | 80-120 | | | |
| Xylene (p/m) | 0.107 | 0.00100 | " | 0.100 | | 107 | 80-120 | | | |
| Xylene (o) | 0.0574 | 0.00100 | " | 0.0500 | | 115 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 56.7 | | ug/l | 50.0 | | 113 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 55.1 | | " | 50.0 | | 110 | 80-120 | | | |
| Calibration Check (ED72007-CCV1) | | | | | | | | | | |
| Prepared: 04/20/07 Analyzed: 04/24/07 | | | | | | | | | | |
| Benzene | 54.8 | | ug/l | 50.0 | | 110 | 80-120 | | | |
| Toluene | 55.1 | | " | 50.0 | | 110 | 80-120 | | | |
| Ethylbenzene | 56.5 | | " | 50.0 | | 113 | 80-120 | | | |
| Xylene (p/m) | 106 | | " | 100 | | 106 | 80-120 | | | |
| Xylene (o) | 57.1 | | " | 50.0 | | 114 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 56.9 | | " | 50.0 | | 114 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 53.1 | | " | 50.0 | | 106 | 80-120 | | | |
| Matrix Spike (ED72007-MS1) | | | | | | | | | | |
| Source: 7D18018-03 Prepared: 04/20/07 Analyzed: 04/24/07 | | | | | | | | | | |
| Benzene | 0.0552 | 0.00100 | mg/L | 0.0500 | ND | 110 | 80-120 | | | |
| Toluene | 0.0573 | 0.00100 | " | 0.0500 | ND | 115 | 80-120 | | | |
| Ethylbenzene | 0.0565 | 0.00100 | " | 0.0500 | ND | 113 | 80-120 | | | |
| Xylene (p/m) | 0.109 | 0.00100 | " | 0.100 | ND | 109 | 80-120 | | | |
| Xylene (o) | 0.0598 | 0.00100 | " | 0.0500 | ND | 120 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 58.3 | | ug/l | 50.0 | | 117 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 57.6 | | " | 50.0 | | 115 | 80-120 | | | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|----------------|--|------|----------------|------|--------------|-------|
| Batch ED72007 - EPA 5030C (GC) | | | | | | | | | | |
| Matrix Spike Dup (ED72007-MSD1) | | Source: 7D18018-03 | | | Prepared: 04/20/07 Analyzed: 04/24/07 | | | | | |
| Benzene | 0.0549 | 0.00100 | mg/L | 0.0500 | ND | 110 | 80-120 | 0.00 | 20 | |
| Toluene | 0.0575 | 0.00100 | " | 0.0500 | ND | 115 | 80-120 | 0.00 | 20 | |
| Ethylbenzene | 0.0593 | 0.00100 | " | 0.0500 | ND | 119 | 80-120 | 5.17 | 20 | |
| Xylene (p/m) | 0.111 | 0.00100 | " | 0.100 | ND | 111 | 80-120 | 1.82 | 20 | |
| Xylene (o) | 0.0611 | 0.00100 | " | 0.0500 | ND | 122 | 80-120 | 1.65 | 20 | QM-07 |
| Surrogate: a,a,a-Trifluorotoluene | 60.0 | | ug/l | 50.0 | | 120 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 58.8 | | " | 50.0 | | 118 | 80-120 | | | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch ED71913 - General Preparation (WetChem)

Blank (ED71913-BLK1) Prepared & Analyzed: 04/19/07

Total Alkalinity ND 2.00 mg/L

LCS (ED71913-BS1) Prepared & Analyzed: 04/19/07

Bicarbonate Alkalinity 176 2.00 mg/L 200 88.0 85-115

Duplicate (ED71913-DUP1) Source: 7D18017-01 Prepared & Analyzed: 04/19/07

Total Alkalinity 226 2.00 mg/L 232 2.62 20

Reference (ED71913-SRM1) Prepared & Analyzed: 04/19/07

Total Alkalinity 246 mg/L 250 98.4 90-110

Batch ED72104 - Filtration Preparation

Blank (ED72104-BLK1) Prepared: 04/21/07 Analyzed: 04/23/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (ED72104-DUP1) Source: 7D18020-03 Prepared: 04/21/07 Analyzed: 04/23/07

Total Dissolved Solids 2450 10.0 mg/L 2950 18.5 20

Batch ED72411 - General Preparation (WetChem)

Blank (ED72411-BLK1) Prepared & Analyzed: 04/24/07

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

Blank (ED72411-BLK2) Prepared: 04/24/07 Analyzed: 04/27/07

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|----------------|------------------|----------------|-------|--------------|-------|
| Batch ED72411 - General Preparation (WetChem) | | | | | | | | | |
| LCS (ED72411-BS1) Prepared: 04/24/07 Analyzed: 04/27/07 | | | | | | | | | |
| Sulfate | 9.66 | 0.500 | mg/L | 10.0 | | 96.6 80-120 | | | |
| Chloride | 9.02 | 0.500 | " | 10.0 | | 90.2 80-120 | | | |
| Calibration Check (ED72411-CCV1) Prepared: 04/24/07 Analyzed: 04/27/07 | | | | | | | | | |
| Sulfate | 11.0 | | mg/L | 10.0 | | 110 80-120 | | | |
| Chloride | 8.05 | | " | 10.0 | | 80.5 80-120 | | | |
| Duplicate (ED72411-DUP1) Source: 7D23008-01 Prepared: 04/24/07 Analyzed: 04/27/07 | | | | | | | | | |
| Sulfate | 74.3 | 5.00 | mg/L | | 74.0 | | 0.405 | 20 | |
| Chloride | 187 | 5.00 | " | | 187 | | 0.00 | 20 | |
| Duplicate (ED72411-DUP2) Source: 7D18018-06 Prepared: 04/24/07 Analyzed: 04/27/07 | | | | | | | | | |
| Chloride | 361 | 12.5 | mg/L | | 367 | | 1.65 | 20 | |
| Sulfate | 492 | 12.5 | " | | 490 | | 0.407 | 20 | |
| Matrix Spike (ED72411-MS1) Source: 7D23008-01 Prepared & Analyzed: 04/24/07 | | | | | | | | | |
| Chloride | 291 | 5.00 | mg/L | 100 | 187 | 104 80-120 | | | |
| Sulfate | 166 | 5.00 | " | 100 | 74.0 | 92.0 80-120 | | | |
| Matrix Spike (ED72411-MS2) Source: 7D18018-06 Prepared: 04/24/07 Analyzed: 04/27/07 | | | | | | | | | |
| Chloride | 631 | 12.5 | mg/L | 250 | 367 | 106 80-120 | | | |
| Sulfate | 774 | 12.5 | " | 250 | 490 | 114 80-120 | | | |

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch ED72703 - 6010B/No Digestion

Blank (ED72703-BLK1)

Prepared & Analyzed: 04/27/07

| | | | | | | | | | | |
|-----------|----|--------|------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0810 | mg/L | | | | | | | |
| Magnesium | ND | 0.0360 | " | | | | | | | |
| Potassium | ND | 0.0600 | " | | | | | | | |
| Sodium | ND | 0.0430 | " | | | | | | | |

Calibration Check (ED72703-CCV1)

Prepared & Analyzed: 04/27/07

| | | | | | | | | | | |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium | 1.90 | | mg/L | 2.00 | | 95.0 | 85-115 | | | |
| Magnesium | 2.07 | | " | 2.00 | | 104 | 85-115 | | | |
| Potassium | 1.98 | | " | 2.00 | | 99.0 | 85-115 | | | |
| Sodium | 2.29 | | " | 2.00 | | 114 | 85-115 | | | |

Duplicate (ED72703-DUP1)

Source: 7D18014-01

Prepared & Analyzed: 04/27/07

| | | | | | | | | | | |
|-----------|------|-------|------|--|------|--|--|-------|----|--|
| Calcium | 140 | 4.05 | mg/L | | 133 | | | 5.13 | 20 | |
| Magnesium | 76.4 | 1.80 | " | | 76.8 | | | 0.522 | 20 | |
| Potassium | 15.7 | 0.600 | " | | 15.6 | | | 0.639 | 20 | |
| Sodium | 350 | 4.30 | " | | 358 | | | 2.26 | 20 | |

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM. 88240

Project: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Cele D. Keene

Date:

05/04/07

Brent Barron, Laboratory Director/Corp. Technical Director
Cele D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas
A Xenco Laboratories Company

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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Rice
Date/ Time: 4-18-07 2:55
Lab ID #: TD18028
Initials: AL

Sample Receipt Checklist

Client Initials

| | | | | | |
|-----|--|------------|----|--------------------------|--|
| #1 | Temperature of container/ cooler? | <u>Yes</u> | No | <u>-1.0</u> °C | |
| #2 | Shipping container in good condition? | <u>Yes</u> | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | <u>Yes</u> | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | <u>Yes</u> | No | Not Present | |
| #5 | Chain of Custody present? | <u>Yes</u> | No | | |
| #6 | Sample instructions complete of Chain of Custody? | <u>Yes</u> | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | <u>Yes</u> | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | <u>Yes</u> | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | <u>Yes</u> | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <u>Yes</u> | No | | |
| #11 | Containers supplied by ELOT? | <u>Yes</u> | No | | |
| #12 | Samples in proper container/ bottle? | <u>Yes</u> | No | See Below | |
| #13 | Samples properly preserved? | <u>Yes</u> | No | See Below | |
| #14 | Sample bottles intact? | <u>Yes</u> | No | | |
| #15 | Preservations documented on Chain of Custody? | <u>Yes</u> | No | | |
| #16 | Containers documented on Chain of Custody? | <u>Yes</u> | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | <u>Yes</u> | No | See Below | |
| #18 | All samples received within sufficient hold time? | <u>Yes</u> | No | See Below | |
| #19 | Subcontract of sample(s)? | <u>Yes</u> | No | <u>Not Applicable</u> | |
| #20 | VOC samples have zero headspace? | <u>Yes</u> | No | Not Applicable | |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 286626

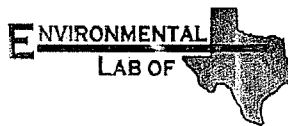
for

Rice Operating Co.

Project Manager: Kristin Pope

BD Junction F-17

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



13-AUG-07

Project Manager: **Kristin Pope**
Rice Operating Co.
122 West Taylor
Hobbs, NM 88240

Reference: XENCO Report No: **286626**
BD Junction F-17
Project Address: T21S R37E Sec17 F ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 286626. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 286626 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 286626

Rice Operating Co., Hobbs, NM



Project Name: BD Junction F-17

Project Id:

Date Received in Lab: Jul-26-07 02:15 pm

Contact: Kristin Pope

Report Date: 13-AUG-07


Project Location: T21S R37E Sec17 F ~ Lea County New M

Project Manager: Brent Barron, II

| Analysis Requested | Lab Id: | 286626-001 | 286626-002 | 286626-003 | |
|--|------------|------------------|------------------|------------------|--|
| | Field Id: | Monitor Well # 1 | Monitor Well # 2 | Monitor Well # 3 | |
| | Depth: | | | | |
| | Matrix: | WATER | WATER | WATER | |
| | Sampled: | Jul-23-07 14:15 | Jul-23-07 13:20 | Jul-23-07 15:05 | |
| Alkalinity by EPA 310.1 | Extracted: | | | | |
| | Analyzed: | Jul-27-07 14:45 | Jul-27-07 14:45 | Jul-27-07 14:45 | |
| | Units/RL: | mg/L RL | mg/L RL | mg/L RL | |
| Alkalinity, Total (as CaCO3) | | 944 4.00 | 800 4.00 | 2500 4.00 | |
| BTEX by EPA 8021B | Extracted: | Jul-27-07 13:38 | Jul-27-07 13:38 | Jul-27-07 13:38 | |
| | Analyzed: | Jul-30-07 18:25 | Jul-30-07 18:46 | Jul-30-07 19:06 | |
| | Units/RL: | mg/L RL | mg/L RL | mg/L RL | |
| Benzene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | |
| Toluene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | |
| Ethylbenzene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | |
| m,p-Xylene | | ND 0.0020 | ND 0.0020 | ND 0.0020 | |
| o-Xylene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | |
| Total Xylenes | | ND | ND | ND | |
| Total BTEX | | ND | ND | ND | |
| Inorganic Anions by EPA 300 | Extracted: | | | | |
| | Analyzed: | Jul-27-07 14:53 | Jul-27-07 14:53 | Jul-27-07 14:53 | |
| | Units/RL: | mg/L RL | mg/L RL | mg/L RL | |
| Chloride | | 637 12.5 | 66.8 5.00 | 1040 25.0 | |
| Metals per ICP by SW846 6010B | Extracted: | Jul-31-07 09:16 | Jul-31-07 09:16 | Jul-31-07 09:16 | |
| | Analyzed: | Jul-31-07 14:50 | Jul-31-07 14:57 | Jul-31-07 14:55 | |
| | Units/RL: | mg/L RL | mg/L RL | mg/L RL | |
| Calcium | | 193 1.00 | 51.3 1.00 | 358 1.00 | |
| Magnesium | | 95.3 0.100 | 22.8 0.100 | 160 0.100 | |
| Potassium | | 6.85 2.00 | 3.60 2.00 | 10.9 2.00 | |
| Sodium | | 252 5.00 | 57.8 5.00 | 241 5.00 | |
| Residue, Filterable (TDS) by EPA 160.1 | Extracted: | | | | |
| | Analyzed: | Jul-26-07 16:30 | Jul-26-07 16:30 | Jul-26-07 16:30 | |
| | Units/RL: | mg/L RL | mg/L RL | mg/L RL | |
| Total dissolved solids | | 2110 5.00 | 440 5.00 | 3190 5.00 | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (201) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |



Form 2 - Surrogate Recoveries



Project Name: BD Junction F-17

Work Order #: 286626

Project ID:

Lab Batch #: 701442

Sample: 286626-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0457 | 0.0500 | 91 | 80-120 | |

Lab Batch #: 701442

Sample: 286626-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0466 | 0.0500 | 93 | 80-120 | |

Lab Batch #: 701442

Sample: 286626-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0541 | 0.0500 | 108 | 80-120 | |

Lab Batch #: 701442

Sample: 286638-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0524 | 0.0500 | 105 | 80-120 | |

Lab Batch #: 701442

Sample: 286638-004 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0532 | 0.0500 | 106 | 80-120 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: BD Junction F-17



Work Order #: 286626

Project ID:

Lab Batch #: 701442

Sample: 497682-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0410 | 0.0500 | 82 | 80-120 | |

Lab Batch #: 701442

Sample: 497682-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------|-----------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes | | | | | |
| 4-Bromofluorobenzene | 0.0451 | 0.0500 | 90 | 80-120 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: BD Junction F-17

Work Order #: 286626

Project ID:

Lab Batch #: 701211

Sample: 701211-1-BKS

Matrix: Water

Date Analyzed: 07/27/2007

Date Prepared: 07/27/2007

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Alkalinity by EPA 310.1 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|---------------------|--------------------|---------------------------|-----------------------|----------------------|-------|
| Alkalinity, Total (as CaCO ₃) | ND | 400 | 340 | 85 | 80-120 | |

Lab Batch #: 701442

Sample: 497682-1-BKS

Matrix: Water

Date Analyzed: 07/30/2007

Date Prepared: 07/27/2007

Analyst: CELKEE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|-------------------------------|---------------------|--------------------|---------------------------|-----------------------|----------------------|-------|
| Benzene | ND | 0.0500 | 0.0457 | 91 | 70-125 | |
| Toluene | ND | 0.0500 | 0.0468 | 94 | 70-125 | |
| Ethylbenzene | ND | 0.0500 | 0.0501 | 100 | 71-129 | |
| m,p-Xylene | ND | 0.1000 | 0.0898 | 90 | 70-131 | |
| o-Xylene | ND | 0.0500 | 0.0475 | 95 | 71-133 | |

Lab Batch #: 701264

Sample: 701264-1-BKS

Matrix: Water

Date Analyzed: 07/27/2007

Date Prepared: 07/27/2007

Analyst: IRO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|---|---------------------|--------------------|---------------------------|-----------------------|----------------------|-------|
| Chloride | ND | 10.0 | 9.94 | 99 | 90-110 | |

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: BD Junction F-17

Work Order #: 286626

Analyst: DAT

Lab Batch ID: 701350

Sample: 497762-1-BKS

Units: mg/L

Project ID:

Date Analyzed: 07/31/2007

Matrix: Water

Date Prepared: 07/31/2007

Batch #: 1

| BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | | |
|---|--|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Units: mg/L | | | | | | | | | | | | |
| Metals per ICP by SW846 6010B | | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | | | | | | | | | | | |
| Calcium | | ND | 1.00 | 1.02 | 102 | 1.0 | 1.05 | 105 | 3 | 75-125 | 25 | |
| Magnesium | | ND | 1.00 | 1.13 | 113 | 1.0 | 1.12 | 112 | 1 | 75-125 | 25 | |
| Potassium | | ND | 10.0 | 9.95 | 100 | 10.0 | 9.89 | 99 | 1 | 75-125 | 25 | |
| Sodium | | ND | 11.0 | 10.8 | 98 | 11.0 | 10.7 | 97 | 1 | 75-125 | 25 | |

Relative Percent Difference RPD = $200 \cdot (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 \cdot (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 \cdot (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: BD Junction F-17



Work Order #: 286626

Lab Batch #: 701264

Date Analyzed: 07/27/2007

QC- Sample ID: 286626-003 S

Reporting Units: mg/L

Date Prepared: 07/27/2007

Project ID:

Analyst: IRO

Batch #: 1

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|---|-----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
| | | | | | | |
| Chloride | 1040 | 500 | 1630 | 118 | 90-110 | X |

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: BD Junction F-17

Work Order #: 286626

Lab Batch ID: 701442

Date Analyzed: 07/31/2007

Reporting Units: mg/L

Project ID:

QC- Sample ID: 286638-004 S

Date Prepared: 07/27/2007

Batch #: 1 Matrix: Water

Analyst: CELKEE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| BTEX by EPA 8021B | | | | | | | | | | | |
| Benzene | 0.0309 | 0.0500 | 0.0808 | 100 | 0.0500 | 0.0774 | 93 | 7 | 70-125 | 25 | |
| Toluene | 0.0010 | 0.0500 | 0.0603 | 119 | 0.0500 | 0.0581 | 114 | 4 | 70-125 | 25 | |
| Ethylbenzene | ND | 0.0500 | 0.0633 | 127 | 0.0500 | 0.0613 | 123 | 3 | 71-129 | 25 | |
| m,p-Xylene | 0.0042 | 0.1000 | 0.1137 | 110 | 0.1000 | 0.1103 | 106 | 4 | 70-131 | 25 | |
| o-Xylene | ND | 0.0500 | 0.0609 | 122 | 0.0500 | 0.0591 | 118 | 3 | 71-133 | 25 | |

Lab Batch ID: 701350

Date Analyzed: 07/31/2007

QC- Sample ID: 286807-001 S

Date Prepared: 07/31/2007

Batch #: 1 Matrix: Water

Analyst: DAT

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| Metals per ICP by SW846 6010B | | | | | | | | | | | |
| Calcium | 300 | 2.00 | 307 | 350 | 2.00 | 303 | 150 | 80 | 75-125 | 20 | XF |
| Magnesium | 9.93 | 2.00 | 12.1 | 109 | 2.00 | 12.0 | 104 | 5 | 75-125 | 20 | |
| Potassium | 15.1 | 20.0 | 39.1 | 120 | 20.0 | 38.9 | 119 | 1 | 75-125 | 20 | |
| Sodium | 4.39 | 22.0 | 28.3 | 109 | 22.0 | 27.5 | 105 | 4 | 75-125 | 20 | |

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times (D-G)/(D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$



Sample Duplicate Recovery



Project Name: BD Junction F-17

Work Order #: 286626

Lab Batch #: 701211

Date Analyzed: 07/27/2007

QC- Sample ID: 286139-012 D

Reporting Units: mg/L

Project ID:

Analyst: WRU

Date Prepared: 07/27/2007

Batch #: 1

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|---|--------------------------|-----------------------------|-----|---------------------|------|
| Alkalinity by EPA 310.1 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Alkalinity, Total (as CaCO ₃) | 2200 | 2200 | 0 | 20 | |

Lab Batch #: 701264

Date Analyzed: 07/27/2007

QC- Sample ID: 286626-003 D

Reporting Units: mg/L

Date Prepared: 07/27/2007

Batch #: 1

Analyst: IRO

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Inorganic Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Chloride | 1040 | 1060 | 2 | 20 | |

Lab Batch #: 701255

Date Analyzed: 07/26/2007

QC- Sample ID: 286139-012 D

Reporting Units: mg/L

Date Prepared: 07/26/2007

Batch #: 1

Analyst: IRO

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|--|--------------------------|-----------------------------|-----|---------------------|------|
| Residue, Filterable (TDS) by EPA 160.1 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Total dissolved solids | 5020 | 5370 | 7 | 30 | |

Lab Batch #: 701255

Date Analyzed: 07/26/2007

QC- Sample ID: 286633-006 D

Reporting Units: mg/L

Date Prepared: 07/26/2007

Batch #: 1

Analyst: IRO

Matrix: Water

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|--|--------------------------|-----------------------------|-----|---------------------|------|
| Residue, Filterable (TDS) by EPA 160.1 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Total dissolved solids | 2980 | 3090 | 4 | 30 | |

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Rice
Date/ Time: 7-26-07 2:15
Lab ID #: 286626
Initials: AL

Sample Receipt Checklist

| | | | | Client Initials | |
|-----|--|---|-----------------------------|--------------------------|-----|
| #1 | Temperature of container/ cooler? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <u>1.5</u> | ° C |
| #2 | Shipping container in good condition? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Present | |
| #5 | Chain of Custody present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #6 | Sample instructions complete of Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #7 | Chain of Custody signed when relinquished/ received? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #8 | Chain of Custody agrees with sample label(s)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #11 | Containers supplied by ELOT? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #12 | Samples in proper container/ bottle? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | See Below | |
| #13 | Samples properly preserved? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | See Below | |
| #14 | Sample bottles intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #15 | Preservations documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #16 | Containers documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | |
| #17 | Sufficient sample amount for indicated test(s)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | See Below | |
| #18 | All samples received within sufficient hold time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | See Below | |
| #19 | Subcontract of sample(s)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Applicable | |
| #20 | VOC samples have zero headspace? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Applicable | |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/05/07
Reporting Date: 10/12/07
Project Number: NOT GIVEN
Project Name: BD JUNCTION F-17
Project Location: T21S R37E SEC17 F~LEA COUNTY, NM

Sampling Date: 10/04/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS

| LAB NUMBER | SAMPLE ID | Na (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Conductivity (u S/cm) | T-Alkalinity (mgCaCO ₃ /L) |
|-----------------------------|-----------------|--------------|--------------|--------------|-------------|--------------------------|--|
| ANALYSIS DATE: | | 10/12/07 | 10/11/07 | 10/11/07 | 10/12/07 | 10/10/07 | 10/10/07 |
| H13452-1 | MONITOR WELL #1 | 259 | 164 | 79.9 | 6.10 | 2,740 | 184 |
| H13452-2 | MONITOR WELL #2 | 64 | 47.9 | 21.8 | 4.89 | 683 | 180 |
| H13452-3 | MONITOR WELL #3 | 225 | 246 | 107 | 10.4 | 3,200 | 232 |
| Quality Control | | NR | 50.6 | 51.6 | 1.87 | 9,760 | NR |
| True Value QC | | NR | 50.0 | 50.0 | 2.00 | 10,000 | NR |
| % Recovery | | NR | 101 | 103 | 93.6 | 97.6 | NR |
| Relative Percent Difference | | NR | < 0.1 | 1.6 | 5.7 | 0.1 | NR |

| | | | | | |
|----------|-------------|-----------|------|-------|-------|
| METHODS: | SM3500-Ca-D | 3500-Mg E | 8049 | 120.1 | 310.1 |
|----------|-------------|-----------|------|-------|-------|

| | Cl ⁻ (mg/L) | SO ₄ (mg/L) | CO ₃ (mg/L) | HCO ₃ (mg/L) | pH (s.u.) | TDS (mg/L) |
|-------------------------------|---------------------------|---------------------------|---------------------------|----------------------------|--------------|---------------|
| ANALYSIS DATE: | 10/11/07 | 10/11/07 | 10/10/07 | 10/10/07 | 10/10/07 | 10/11/07 |
| H13452-1 MONITOR WELL #1 | 720 | 107 | 0 | 224 | 7.28 | 1,765 |
| H13452-2 MONITOR WELL #2 | 64 | 80.5 | 0 | 220 | 7.54 | 475 |
| H13452-3 MONITOR WELL #3 | 830 | 150 | 0 | 283 | 7.19 | 2,235 |
| | | | | | | |
| | | | | | | |
| Quality Control | 500 | 54.0 | NR | 1000 | 7.00 | NR |
| True Value QC | 500 | 50.0 | NR | 1000 | 7.00 | NR |
| % Recovery | 100 | 108 | NR | 100 | 100 | NR |
| Relative Percent Difference | < 0.1 | 16.8 | NR | < 0.1 | 0.1 | NR |

| | | | | | | |
|----------|-------------|-------|-------|-------|-------|-------|
| METHODS: | SM4500-Cl-B | 375.4 | 310.1 | 310.1 | 150.1 | 160.1 |
|----------|-------------|-------|-------|-------|-------|-------|

Kristin Suplo
Chemist

10/12/07
Date

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.



ARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 10/05/07
Reporting Date: 10/10/07
Project Number: NOT GIVEN
Project Name: BD JUNCTION F-17
Project Location: T21S R37E SEC17 F - LEA COUNTY, NM

Sampling Date: 10/04/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: CK

| LAB NUMBER | SAMPLE ID | BENZENE (mg/L) | TOLUENE (mg/L) | ETHYL BENZENE (mg/L) | TOTAL XYLENES (mg/L) |
|-----------------------------|-----------------|-------------------|-------------------|----------------------------|----------------------------|
| ANALYSIS DATE | | 10/06/07 | 10/06/07 | 10/06/07 | 10/06/07 |
| H13452-1 | MONITOR WELL #1 | <0.001 | <0.001 | <0.001 | <0.003 |
| H13452-2 | MONITOR WELL #2 | <0.001 | <0.001 | <0.001 | <0.003 |
| H13452-3 | MONITOR WELL #3 | <0.001 | <0.001 | <0.001 | <0.003 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Quality Control | | 0.114 | 0.106 | 0.106 | 0.108 |
| True Value QC | | 0.100 | 0.100 | 0.100 | 0.300 |
| % Recovery | | 114 | 106.0 | 106.0 | 108.0 |
| Relative Percent Difference | | 9.3 | 11.6 | 12.1 | 12.7 |

METHOD: EPA SW-846 8021B

Chemist

Date

H13452b Rice

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[illegible]