

1R - 427-177

**Annual GW Mon.
REPORTS**

DATE:

2007



Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL
RETURN RECEIPT NO. 7002 3150 0005 0508 7706

March 19, 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

2008 MAR 31 PM 4 52
RECEIVED

Re: 2007 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Eunice Monument Eumont (EME) Saltwater Disposal System (SWD) jct. A-2-1 Release, Unit A, Section 2, T-20-S, R-36-E, Lea County, New Mexico, NMOCD CASE #1R0427-177

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) submits the following 2007 Annual Groundwater Summary Report for the Rice Operating Company (ROC), jct. A-2-1 Release, located in the Eunice Monument Eumont (EME) Salt Water Disposal System.

Background

As part of the ROC Junction Box Upgrade Workplan, starting on February 26, 2004, the junction box was moved 85 feet to the west. The former junction box site was investigated vertically and horizontally with a backhoe. Test trenches were placed 10 feet in each direction from the source and showed a decline in chloride concentrations with depth to less than 250 mg/kg at 14 feet below ground surface (bgs). The Site was excavated with dimensions of approximately 20 feet x 20 feet x 12 feet. TPH impact was noted to a depth of at least 12 feet bgs. The bottom hole chloride concentration was 659 mg/kg at 12 feet, and a 4-wall composite sample had a concentration of 915 mg/kg. Regional groundwater information indicates that depth to groundwater is approximately 50 feet bgs.

The excavated soil was blended onsite and replaced into the excavation to a depth of 7 feet bgs. At 7 feet bgs, a compacted clay barrier was installed to inhibit further hydrocarbon and chloride migration. The remaining soils were backfilled on top of the clay barrier and contoured to the surrounding surface. On June 2, 2004, a hollow-stem auger unit was utilized to conduct one soil boring at the former junction box site. The soil boring was

advanced to a total depth of 30 feet bgs. A bottom hole sample (shown as 35 feet bgs) was collected from the borehole and exhibited a TPH concentration of 242.5 mg/kg and a chloride concentration of 688 mg/kg. The site was disclosed to the NMOCD as a potential groundwater impact site on June 29, 2005. Additionally, ROC submitted a Junction Box Disclosure Report to the NMOCD dated July 1, 2005.

On September 29, 2006, ROC submitted the Investigation and Characterization Plan (ICP) to Wayne Price of the NMOCD-Santa Fe office for review. Mr. Price granted approval of the ICP in a letter dated October 4, 2006.

Between October 11 and October 13, 2006, Highlander personnel were onsite to oversee the installation of three monitor wells (MW-1 through MW-3) along with five soil borings (SB-2 through SB-6) within, up, and down gradient of the release area. The surface area affected measured approximately 45 feet by 75 feet. Soil samples were collected every 5 feet, utilizing a split spoon sampler, and field screened for chlorides. Selected samples were placed in laboratory supplied containers and delivered under chain-of-custody control for chloride analysis by EPA method 300.0, along with select samples for BTEX and TPH utilizing EPA analysis method 8021B and 8015M, respectively. Analytical results indicated, that with the exception of SB-2, residual chloride impact to subsurface soils was less than 1,000 mg/kg except near the saturated zone where chloride concentrations increase to near or slightly greater than 1,000 mg/kg.

The initial groundwater sampling (November 6, 2006) for the three monitor wells showed elevated chloride levels ranging from 7,970 mg/L in MW-3 (downgradient) to 8,680 mg/L in MW-2 (upgradient). In addition, TDS ranged from 20,400 mg/L in MW-3 to 23,600 mg/L in MW-2. BTEX concentrations were elevated in monitor well MW-1, but remained below the New Mexico Water Quality Control Commission standards. No BTEX was reported in monitor well MW-2 and MW-3.

On May 22, 2007, ROC submitted a Corrective Action Plan (CAP) for the site to Mr. Wayne Price of the NMOCD-Santa Fe office for review. The CAP proposed preparation and revegetation of the surface soils in order to provide an infiltration barrier. Based on a visual inspection and subsurface drilling, the area of the release to be revegetated is approximately 25 feet by 25 feet. The original clay liner measured 20 feet by 20 feet and extended to a depth of 7 feet bgs. It also requires an extension of 5 feet in each direction to provide a complete infiltration barrier. Mr. Price approved the CAP in a meeting with ROC and Highlander on July 18, 2007.

Between October 16 and October 31, 2007, ROC oversaw the excavation and removal of the overburden around the affected area. An area measuring 25 feet by 25 feet by 7 feet deep was excavated with approximately 84 cubic yards of soil transported offsite for disposal at the Sundance disposal facility in Eunice, New Mexico. The remaining excavated soils were blended with clean soil and tested for chlorides. The laboratory sample result



indicated the chloride levels were 336 mg/kg and a TPH DRO of 56.9 mg/kg, which is conducive for growing native grasses. Prior to backfilling of the excavation, a one foot thick clay layer was placed in the bottom of the excavation and compacted around the former clay liner. The density of the compacted clay measured 90.2%. Upon completion of the compaction, the blended soils were placed back within the excavation and brought up to grade. On November 6, 2007, the entire disturbed area (approximately 9,015 square feet) was reseeded with a blend of native vegetation and is monitored for growth.

Monitor Well Sampling

The monitor wells were sampled on a quarterly basis. Prior to sampling, the monitor wells were gauged and approximately three casing volumes of water were purged from the wells 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 well was also inspected for the presence of phase-separated hydrocarbons (PSH). PSH has been found in the past in monitor well MW-1. Since January 2007, no PSH has been measured in MW-1, however an absorbent sock has been utilized in the monitor well to recover residual PSH from the groundwater.

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/or 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

The chloride concentrations for the three monitor wells were elevated throughout the year and have ranged from a low of 7,798 mg/L in downgradient MW-3 in August 2007 to 10,100 mg/L in up and cross gradient well MW-1 and MW-2 in February 2007. The chloride concentrations for the three wells were relatively stable and consistent throughout the year. In comparing the chloride concentration analysis data with other water quality in the area, specifically the ROC EME D-1 (AP-67) which is directly downgradient of the Climax Chemical Plant Site, it appears the chloride concentrations at the site are consistent with regional groundwater degradation in the area. The EME D-1 data indicates the background chloride concentrations range from 7,910 mg/L to 12,900 mg/L in areas outside the initial release area.

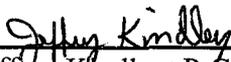


In 2007, BTEX constituents were detected at or above reporting limits for monitor well MW-1. In addition, benzene levels were above the New Mexico Water Quality Control Commission (WQCC) standards in MW-1. No BTEX constituents were detected in MW-2 or MW-3 throughout 2007. Cumulative analytical data is summarized in the Table Section of this report.

Conclusions

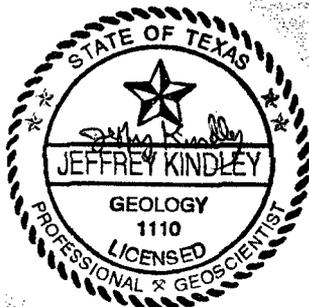
1. In 2007, BTEX constituents along with benzene were detected at or above the New Mexico Water Quality Control Commission (WQCC) standards in monitor well MW-1.
2. Chloride concentrations for the three monitor wells were elevated through the year and have ranged from a low of 7,798 mg/L in downgradient MW-3 to a high of 10,100 mg/L in up to crossgradient MW-1 an MW-2. In comparing the chloride concentration analysis data with other water quality in the area, specifically the ROC EME D-1 9 (AP-67), which is directly downgradient of the Climax Chemical Plant Site, it appears the chloride concentrations at the site are consistent with regional groundwater degradation in the area. The EME D-1 data indicates the background chloride concentrations range from 7,910 mg/L to 12,900 mg/L in areas outside the initial release area.
3. For 2008, quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD.

Respectfully Submitted,
HIGHLANDER ENVIRONMENTAL CORP.

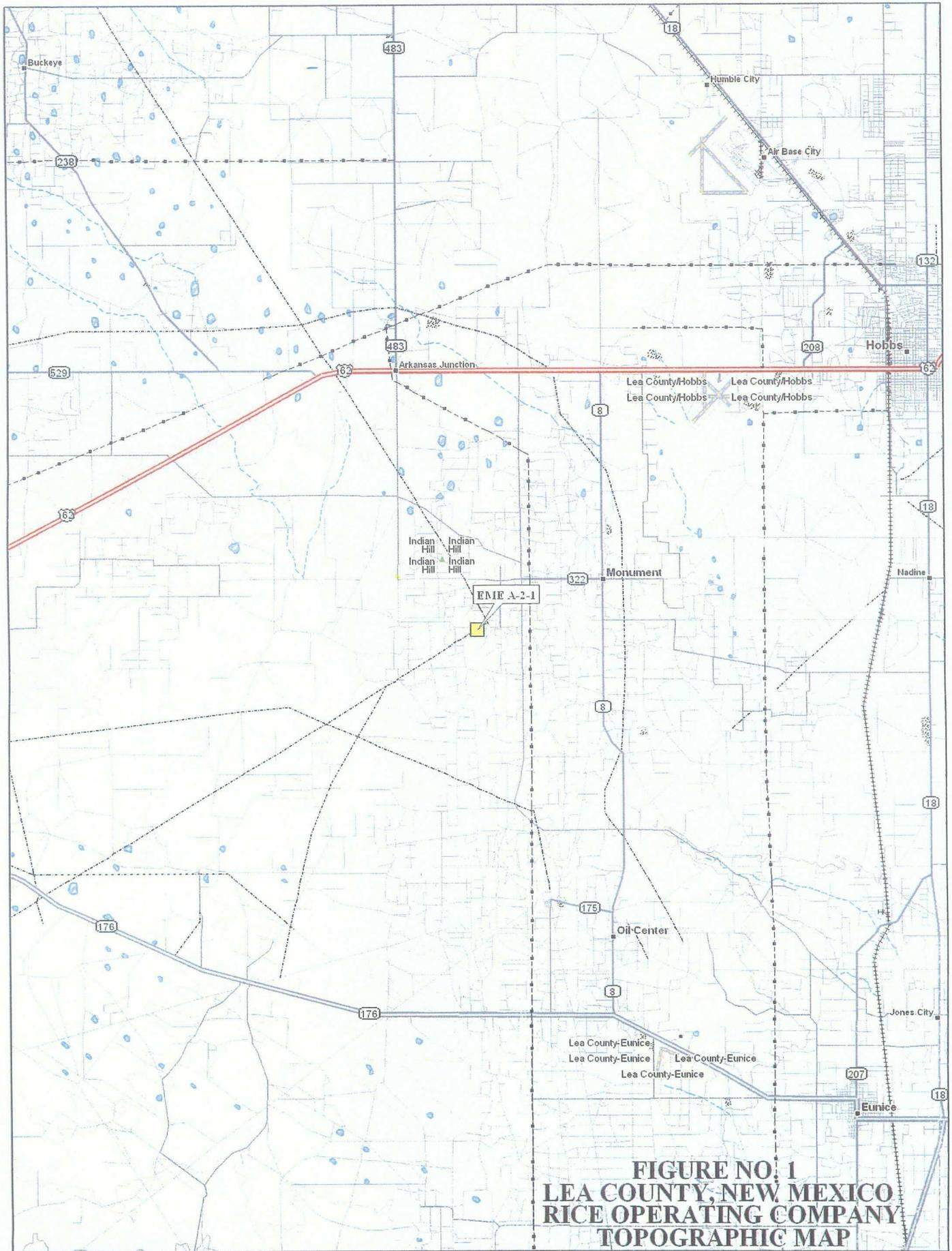


Jeffrey Kindley, P.G.
Senior Environmental Geologist

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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www.delorme.com

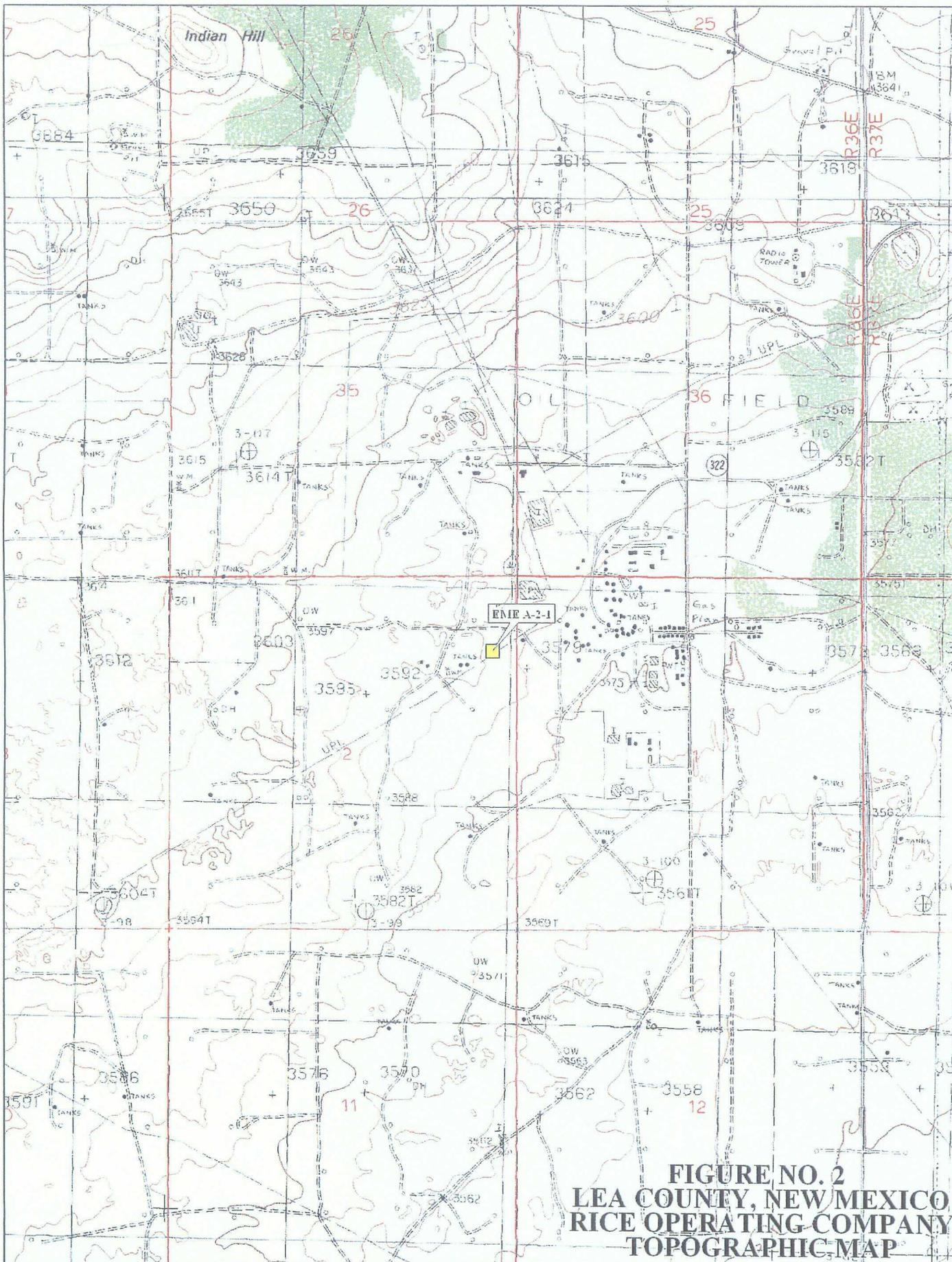
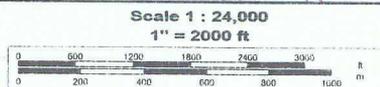


FIGURE NO. 2
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP



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- SOIL BORING LOCATIONS
- MONITOR WELL LOCATIONS

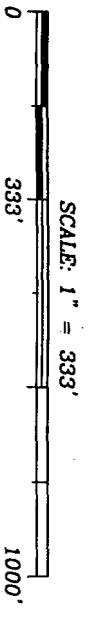
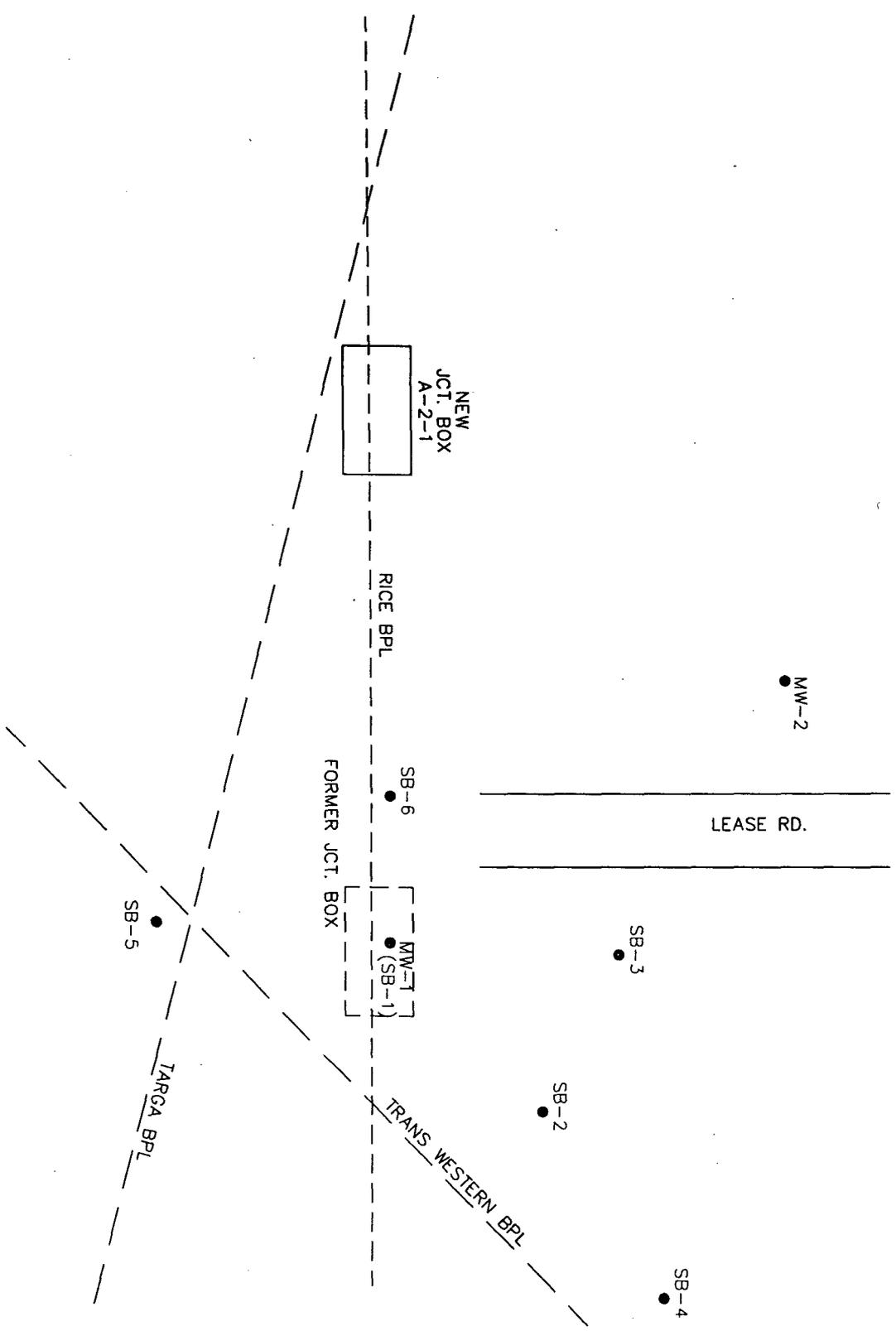
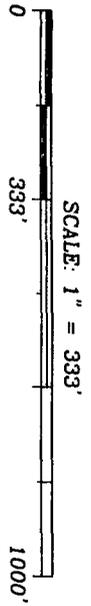


FIGURE NO. 3

DWA, Sr:	RC
FILE NO. 13946	DATE 1/1/88
HIGHLANDER ENVIRONMENTAL CORP.	
MIDLAND, TEXAS	
EME A-2-1	
SITE MAP	
RICE OPERATING COMPANY	
LEA COUNTY, NEW MEXICO	



● MONITOR WELL LOCATIONS
C.I. = .50'



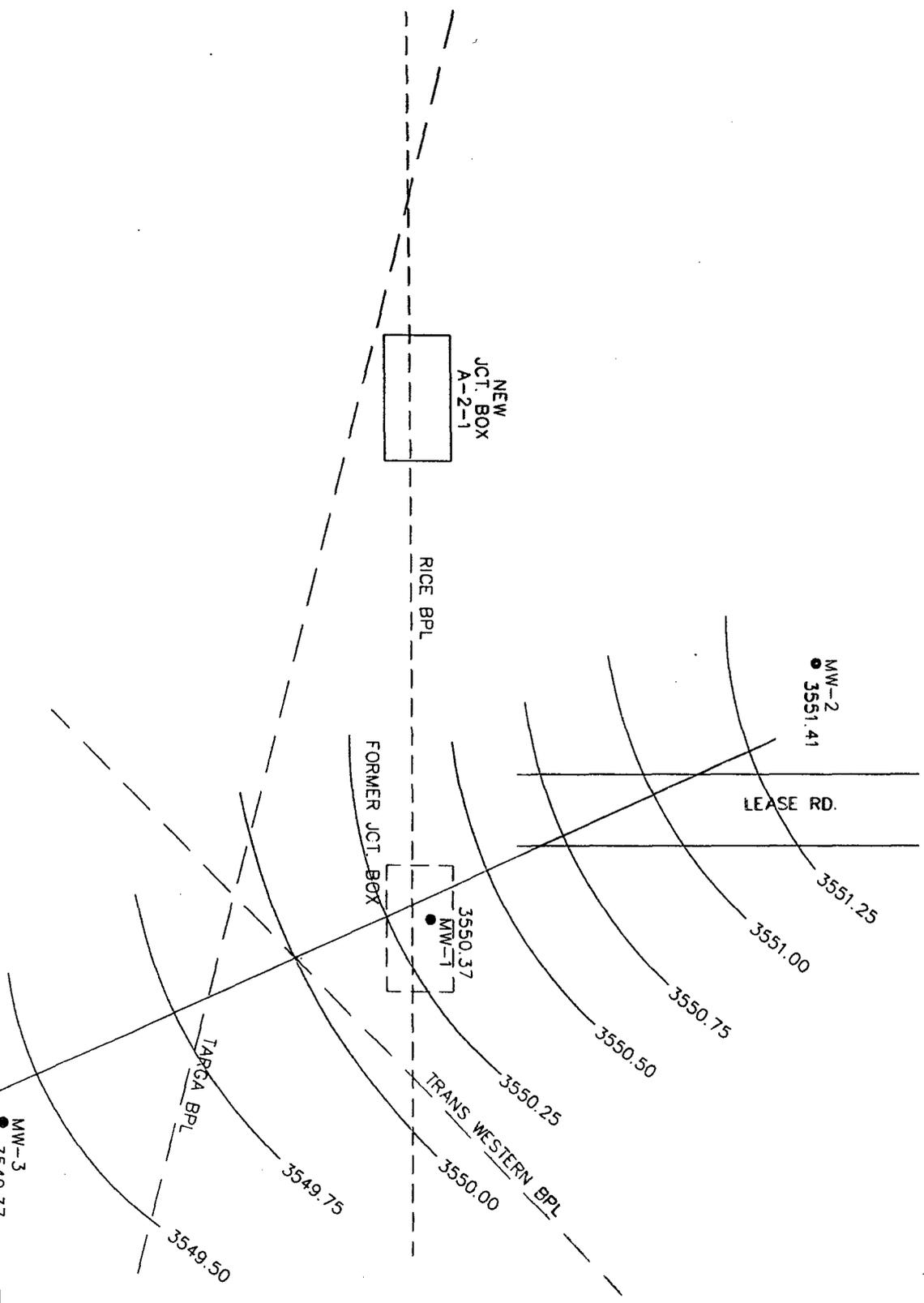
SCALE: 1" = 333'

DRAWN BY: RC
FILE NO: 3446
DATE: 11/6/08

LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
EME A-2-1
GROUNDWATER GRADIENT MAP
GAUGED ON 11-6-08
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

FIGURE NO. 4

MW-3
● 3549.37



NEW
JCT. BOX
A-2-1

RICE BPL

FORMER JCT. BOX

3550.37
● MW-1

MW-2
● 3551.41

LEASE RD.

3551.25

3551.00

3550.75

3550.50

3550.25

3550.00

TRANS WESTERN BPL

3549.75

TARGA BPL

3549.50

● MONITOR WELL LOCATIONS
C.I. = .50'

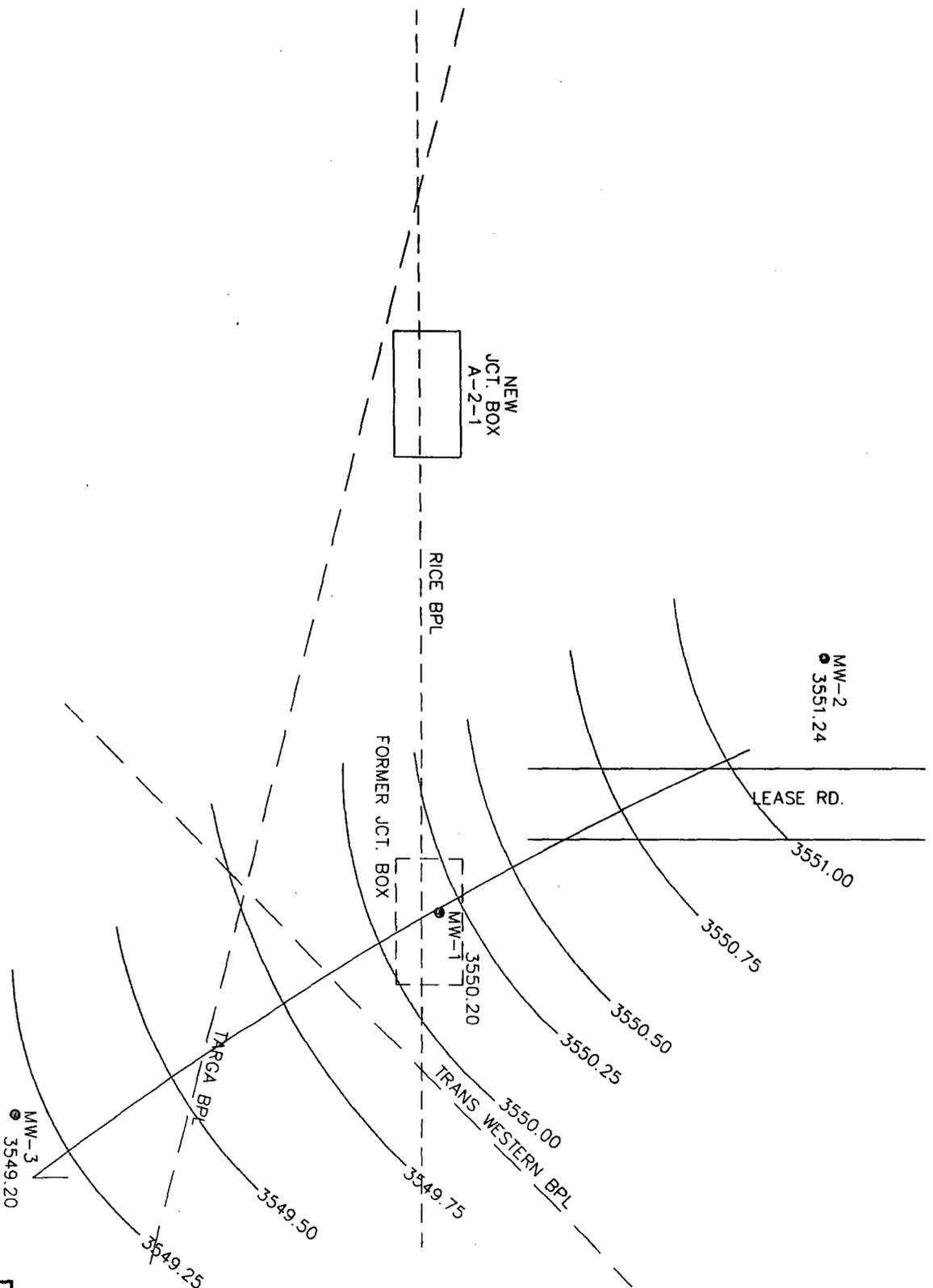
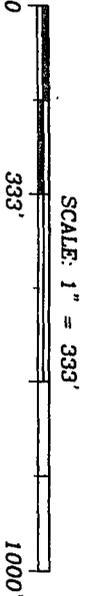
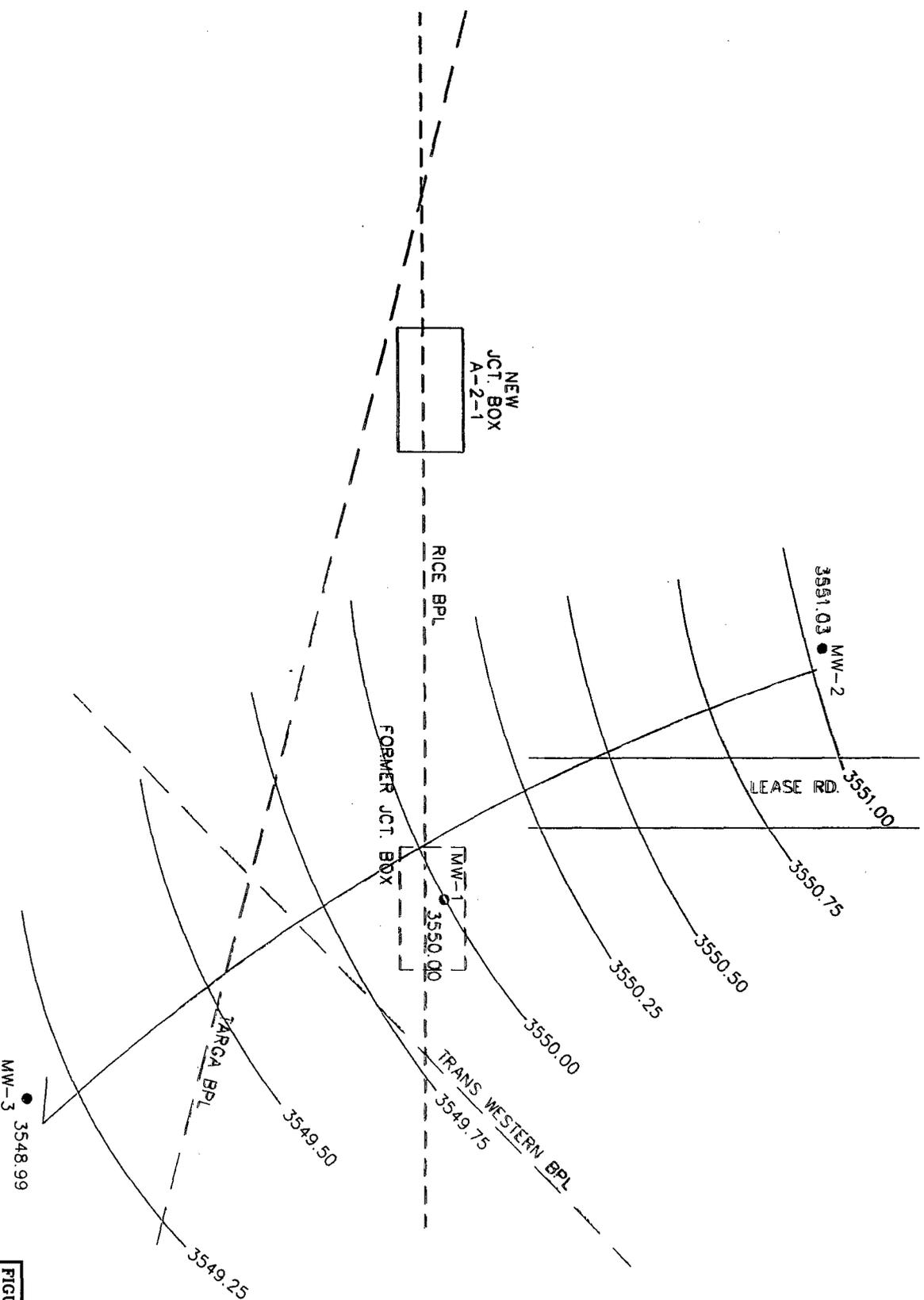
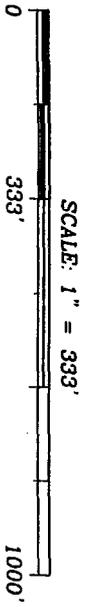


FIGURE NO. 5

DPN. Br:	RC
FILE:	Project 3446
DATE:	11/2/74
LEA COUNTY, NEW MEXICO	
RICE OPERATING COMPANY	
EME A-2-1	
GROUNDWATER GRADIENT MAP	
GAUGED ON 2-13-07	
HIGHLANDER ENVIRONMENTAL CORP.	
MIDLAND, TEXAS	



● MONITOR WELL LOCATIONS.
C.I. = .50'



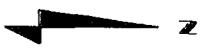
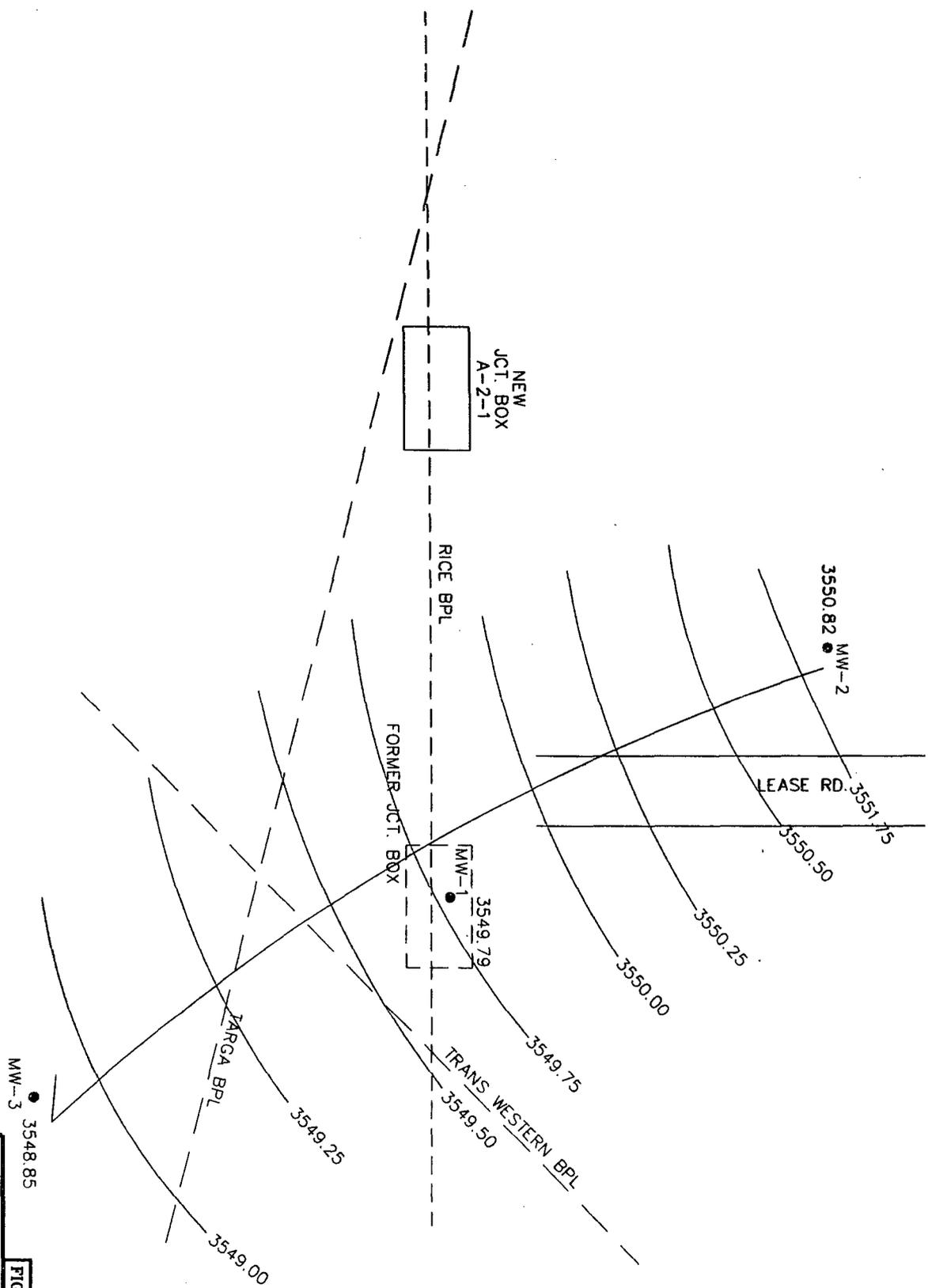
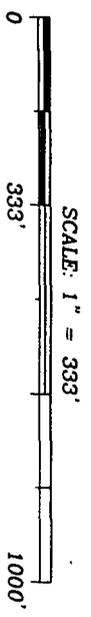
SCALE: 1" = 333'

MW-3 3548.99

FIGURE NO. 6

DRAWN BY:	RC
CHECKED BY:	RC
DATE:	05/27/94
SHEET NO.:	6
LEA COUNTY, NEW MEXICO	
RICE OPERATING COMPANY	
EME A-2-1	
GROUNDWATER GRADIENT MAP	
GAUGED ON 6-8-07	
HIGHLANDER ENVIRONMENTAL CORP.	
MIDLAND, TEXAS	

● MONITOR WELL LOCATIONS
C.I. = .50'

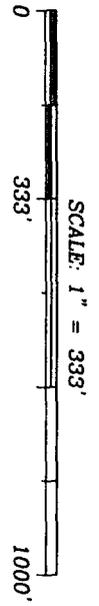


MW-3 ● 3548.85

FIGURE NO. 7

DWN. BY: RC C:\BENCH\2446 SITE MAP	LEA COUNTY, NEW MEXICO RICE OPERATING COMPANY EME A-2-1 GROUNDWATER GRADIENT MAP GAUGED ON 8-21-07 HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS
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● MONITOR WELL LOCATIONS
C.I. = .50'

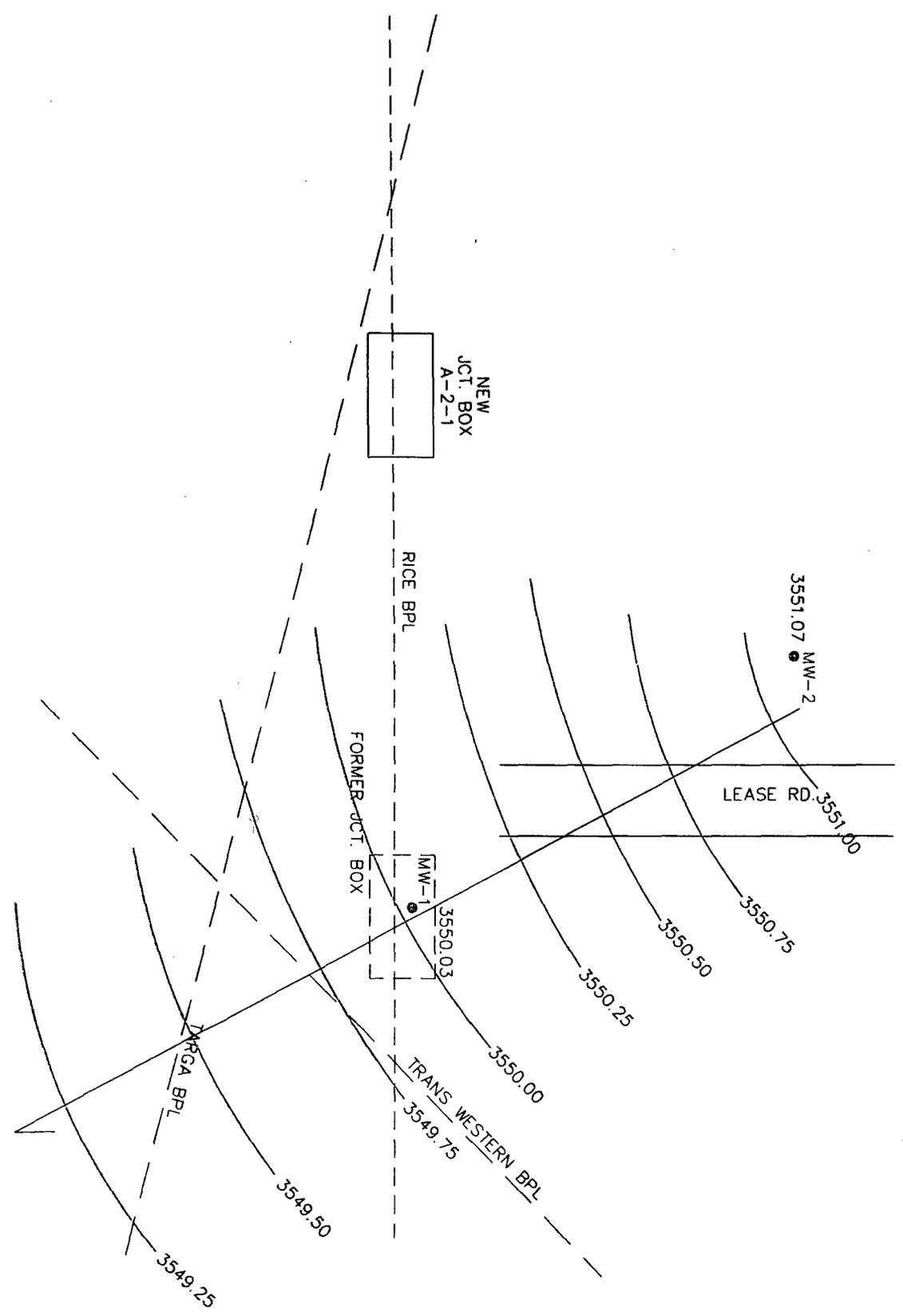


MW-3 3549.10

FIGURE NO. 8

DRAWN BY: RC
 FILE: C:\MEX\2346
 DATE: 11/88

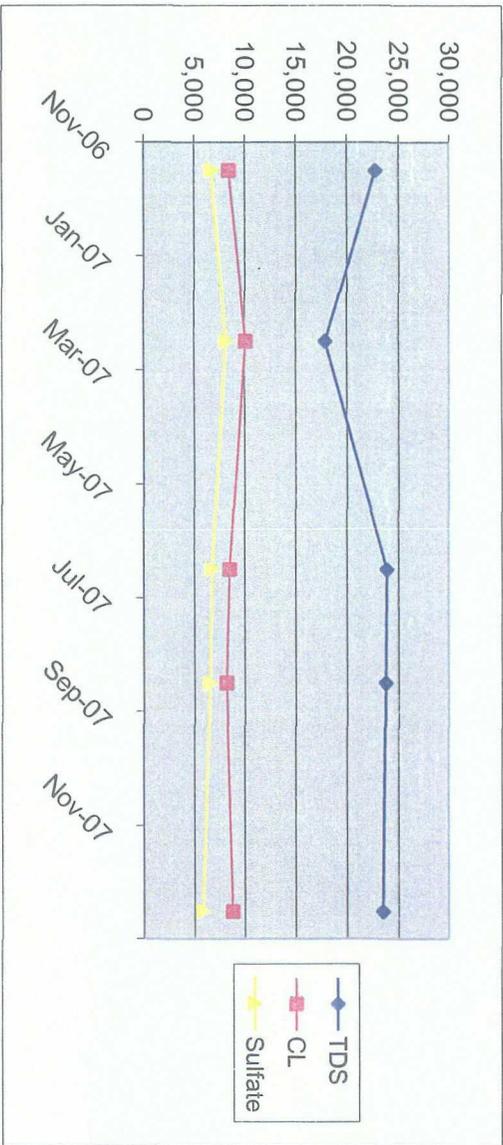
LEA COUNTY, NEW MEXICO
 RICE OPERATING COMPANY
 EME A-2-1
 GROUNDWATER GRADIENT MAP
 GAUGED ON 12-4-07
 HIGHLANDER ENVIRONMENTAL CORP.
 MIDLAND, TEXAS



TABLES

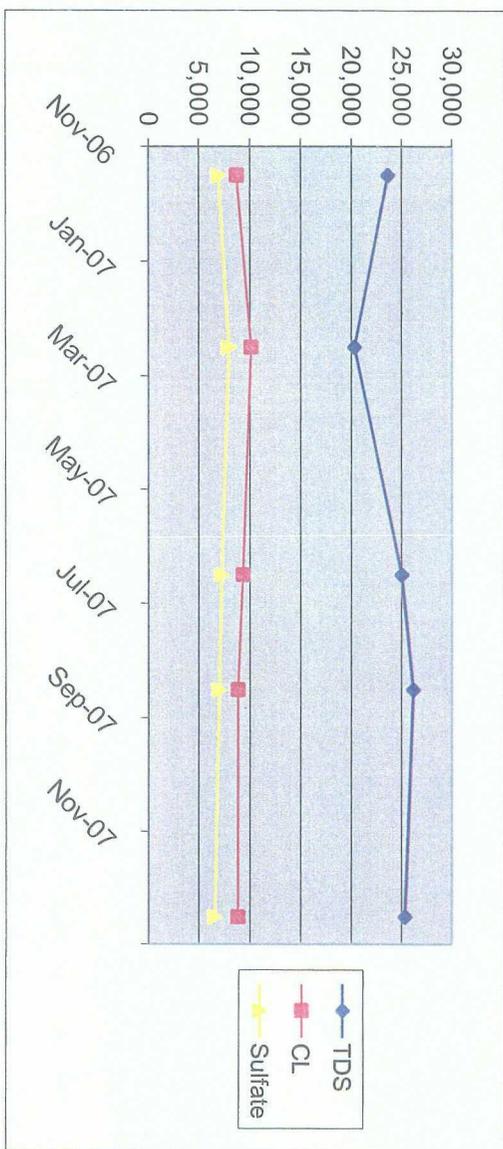
Rice Engineering Operating
 EME Jct. A-2-1
 Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	38.13	53.76	2.50	10	11/06/06	8,460	22,800	0.00331	0.00158	0.00337	0.003418	6,780	hydrocar. odr
1	38.30	53.76	2.50	8	02/13/07	10,100	17,900	0.0692	0.00526	0.0313	0.0404	8,190	hydrocar. odr
1	38.50	53.76	2.40	8	06/08/07	8,500	23,900	0.0220	0.00147	0.00799	0.00768	6,760	hydrocar. odr
1	38.71	53.76	2.40	8	08/21/07	8,197	23,775	0.0340	0.004	0.012	0.022	6,611	hydrocar. odr
1	38.47	53.76	2.40	8	12/04/07	8,800	23,481	0.0880	<0.001	0.021	0.010	5,870	hydrocar. odr



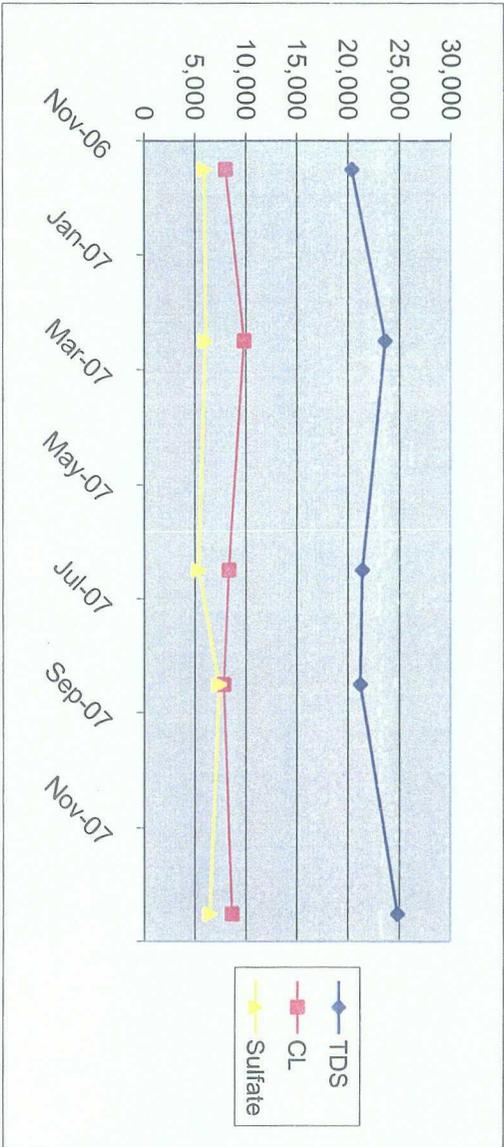
Rice Engineering Operating
 EME Jct. A-2-1
 Lea County, New Mexico

MMW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	36.45	48.65	2.00	8	11/06/06	8,680	23,600	<0.001	<0.001	<0.001	<0.001	6,960	Clear no odor
2	36.62	48.65	1.90	8	02/13/07	10,100	20,300	<0.001	<0.001	<0.001	<0.001	7,990	Clear no odor
2	36.83	48.65	1.90	8	06/08/07	9,300	25,000	<0.001	<0.001	<0.001	<0.001	7,280	Clear no odor
2	37.04	48.65	1.90	8	08/21/07	8,797	26,155	<0.004	<0.004	<0.004	<0.004	7,005	Clear no odor
2	36.79	48.65	1.90	8	12/04/07	8,800	25,329	<0.001	<0.001	<0.001	<0.003	6,570	Clear no odor

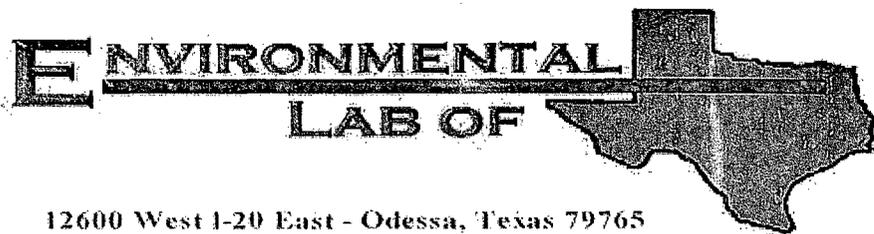


Rice Engineering Operating
 EME Jct. A-2-1
 Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	37.12	47.38	1.60	6	11/06/06	7,970	20,400	<0.001	<0.001	<0.001	<0.001	5,950	Clear no odor
3	37.29	47.38	1.60	6	02/13/07	9,820	23,600	<0.001	<0.001	<0.001	<0.001	6,050	Clear no odor
3	37.50	47.38	1.60	6	06/08/07	8,300	21,400	<0.001	<0.001	<0.001	<0.001	5,350	Clear no odor
3	37.64	47.38	1.60	6	08/21/07	7,798	21,200	<0.004	<0.004	<0.004	<0.012	7,381	Clear no odor
3	37.39	47.38	1.60	6	12/04/07	8,600	24,814	<0.001	<0.001	<0.001	<0.003	6,480	Clear no odor



APPENDIX A



12600 West 1-20 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: EME Jct. A-2-1

Project Number: None Given

Location: T20S R36E Sec 2 A ~ Lea County New Mexico

Lab Order Number: 7B16009

Report Date: 02/28/07

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

Project: EME Jct. A-2-1
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	7B16009-01	Water	02/13/07 14:30	02-16-2007 11:19
Monitor Well #2	7B16009-02	Water	02/13/07 13:25	02-16-2007 11:19
Monitor Well #3	7B16009-03	Water	02/13/07 12:40	02-16-2007 11:19

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

Project: EME Jct. A-2-1
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 (7B16009-01) Water									
Benzene	0.0692	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	0.00526	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0313	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0404	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00324	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		123 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		145 %	80-120		"	"	"	"	S-04
Monitor Well #2 (7B16009-02) Water									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	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		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	
Monitor Well #3 (7B16009-03) Water									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	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		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	

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

Project: EME Jct. A-2-1
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 (7B16009-01) Water									
Total Alkalinity	960	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
Chloride	10100	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
Total Dissolved Solids	17900	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
Sulfate	8190	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
Monitor Well #2 (7B16009-02) Water									
Total Alkalinity	730	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
Chloride	10100	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
Total Dissolved Solids	20300	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
Sulfate	7990	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
Monitor Well #3 (7B16009-03) Water									
Total Alkalinity	670	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
Chloride	9820	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
Total Dissolved Solids	23600	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
Sulfate	6050	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	

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

Project: EME Jct. A-2-1
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 (7B16009-01) Water									
Calcium	542	20.2	mg/L	250	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	220	1.80	"	50	"	"	"	"	
Potassium	30.2	3.00	"	"	"	"	"	"	
Sodium	9340	86.0	"	2000	"	"	"	"	
Monitor Well #2 (7B16009-02) Water									
Calcium	665	20.2	mg/L	250	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	306	1.80	"	50	"	"	"	"	
Potassium	29.7	3.00	"	"	"	"	"	"	
Sodium	8960	86.0	"	2000	"	"	"	"	
Monitor Well #3 (7B16009-03) Water									
Calcium	448	20.2	mg/L	250	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	198	1.80	"	50	"	"	"	"	
Potassium	32.5	3.00	"	"	"	"	"	"	
Sodium	8590	86.0	"	2000	"	"	"	"	

Environmental Lab of Texas

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

Project: EME Jct. A-2-1
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
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Batch EB72104 - EPA 5030C (GC)

Blank (EB72104-BLK1) Prepared: 02/21/07 Analyzed: 02/22/07										
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	54.0		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	59.2		"	50.0		118	80-120			

LCS (EB72104-BS1) Prepared: 02/21/07 Analyzed: 02/22/07										
Benzene	0.0592	0.00100	mg/L	0.0500		118	80-120			
Toluene	0.0557	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0564	0.00100	"	0.0500		113	80-120			
Xylene (p/m)	0.111	0.00100	"	0.100		111	80-120			
Xylene (o)	0.0500	0.00100	"	0.0500		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	55.5		ug/l	50.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	58.8		"	50.0		118	80-120			

Calibration Check (EB72104-CCV1) Prepared: 02/21/07 Analyzed: 02/23/07										
Benzene	50.0		ug/l	50.0		100	80-120			
Toluene	46.9		"	50.0		93.8	80-120			
Ethylbenzene	48.8		"	50.0		97.6	80-120			
Xylene (p/m)	95.2		"	100		95.2	80-120			
Xylene (o)	42.7		"	50.0		85.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.7		"	50.0		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	54.6		"	50.0		109	80-120			

Matrix Spike (EB72104-MS1) Source: 7B16006-01 Prepared: 02/21/07 Analyzed: 02/23/07										
Benzene	0.0507	0.00100	mg/L	0.0500	ND	101	80-120			
Toluene	0.0463	0.00100	"	0.0500	ND	92.6	80-120			
Ethylbenzene	0.0470	0.00100	"	0.0500	ND	94.0	80-120			
Xylene (p/m)	0.0930	0.00100	"	0.100	ND	93.0	80-120			
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.6		ug/l	50.0		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	48.9		"	50.0		97.8	80-120			

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

Project: EME Jct. A-2-1
 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 EB72104 - EPA 5030C (GC)										
Matrix Spike Dup (EB72104-MSD1)										
		Source: 7B16006-01			Prepared: 02/21/07		Analyzed: 02/23/07			
Benzene	0.0513	0.00100	mg/L	0.0500	ND	103	80-120	1.96	20	
Toluene	0.0482	0.00100	"	0.0500	ND	96.4	80-120	4.02	20	
Ethylbenzene	0.0492	0.00100	"	0.0500	ND	98.4	80-120	4.57	20	
Xylene (p/m)	0.0969	0.00100	"	0.100	ND	96.9	80-120	4.11	20	
Xylene (o)	0.0426	0.00100	"	0.0500	ND	85.2	80-120	4.32	20	
Surrogate: a,a,a-Trifluorotoluene	44.3		ug/l	50.0		88.6	80-120			
Surrogate: 4-Bromofluorobenzene	53.3		"	50.0		107	80-120			

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

Project: EME Jct. A-2-1
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
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Batch EB71701 - General Preparation (WetChem)

Blank (EB71701-BLK1) Prepared & Analyzed: 02/17/07

Total Alkalinity	ND	2.00	mg/L							
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LCS (EB71701-BS1) Prepared & Analyzed: 02/17/07

Total Alkalinity	192	2.00	mg/L				85-115			
Bicarbonate Alkalinity	230	2.00	"	200		115	85-115			

Duplicate (EB71701-DUP1) Source: 7B16006-01 Prepared & Analyzed: 02/17/07

Total Alkalinity	280	2.00	mg/L		290			3.51	20	
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Reference (EB71701-SRM1) Prepared & Analyzed: 02/17/07

Total Alkalinity	264		mg/L	250		106	90-110			
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Batch EB72001 - Filtration Preparation

Blank (EB72001-BLK1) Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	ND	10.0	mg/L							
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Duplicate (EB72001-DUP1) Source: 7B16006-01RE1 Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	6260	10.0	mg/L		5970			4.74	20	
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Duplicate (EB72001-DUP2) Source: 7B16009-03RE1 Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	16900	10.0	mg/L		16900			0.00	20	
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Batch EB72203 - General Preparation (WetChem)

Blank (EB72203-BLK1) Prepared & Analyzed: 02/22/07

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

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

Project: EME Jct. A-2-1
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 EB72203 - General Preparation (WetChem)										
LCS (EB72203-BS1)				Prepared & Analyzed: 02/22/07						
Chloride	10.7	0.500	mg/L	10.0		107	80-120			
Sulfate	11.1	0.500	"	10.0		111	80-120			
Calibration Check (EB72203-CCV1)				Prepared & Analyzed: 02/22/07						
Sulfate	10.3		mg/L	10.0		103	80-120			
Chloride	10.3		"	10.0		103	80-120			
Duplicate (EB72203-DUP1)				Source: 7B16008-02		Prepared & Analyzed: 02/22/07				
Sulfate	237	50.0	mg/L		226			4.75	20	
Chloride	3040	50.0	"		3060			0.656	20	
Duplicate (EB72203-DUP2)				Source: 7B16010-01		Prepared & Analyzed: 02/22/07				
Chloride	573	12.5	mg/L		587			2.41	20	
Sulfate	246	12.5	"		249			1.21	20	
Matrix Spike (EB72203-MS1)				Source: 7B16008-02		Prepared & Analyzed: 02/22/07				
Sulfate	1270	50.0	mg/L	1000	226	104	80-120			
Chloride	4180	50.0	"	1000	3060	112	80-120			
Matrix Spike (EB72203-MS2)				Source: 7B16010-01		Prepared & Analyzed: 02/22/07				
Chloride	872	12.5	mg/L	250	587	114	80-120			
Sulfate	527	12.5	"	250	249	111	80-120			

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

Project: EME Jct. A-2-1
 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
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Batch EB72209 - 6010B/No Digestion

Blank (EB72209-BLK1)

Prepared & Analyzed: 02/22/07

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

Calibration Check (EB72209-CCV1)

Prepared & Analyzed: 02/22/07

Calcium	2.08		mg/L	2.00		104	85-115			
Magnesium	1.80		"	2.00		90.0	85-115			
Potassium	1.75		"	2.00		87.5	85-115			
Sodium	1.79		"	2.00		89.5	85-115			

Duplicate (EB72209-DUP1)

Source: 7B16006-01

Prepared & Analyzed: 02/22/07

Calcium	346	20.2	mg/L		360			3.97	20	
Magnesium	182	1.80	"		183			0.548	20	
Potassium	50.4	0.600	"		38.2			27.5	20	R2
Sodium	1800	21.5	"		1980			9.52	20	

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: EME Jct. A-2-1
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.
R2 The RPD exceeded the acceptance limit.
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:

2/28/2007

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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Page 10 of 10

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

Client: Rice
 Date/ Time: 2/16/07 0940
 Lab ID #: 7B16009
 Initials: M

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	-1.5 °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	Not Applicable
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

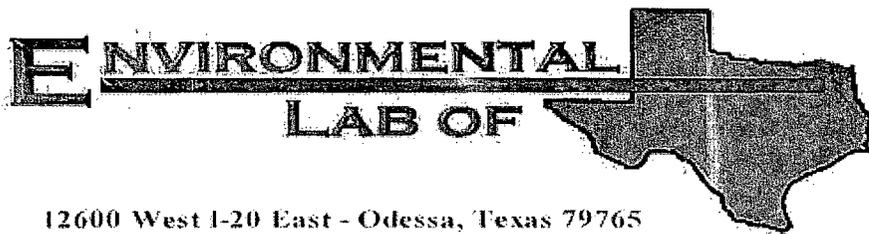
Variance Documentation

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



12600 West 1-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. A-2-1

Project Number: None Given

Location: T20S R36E Sec2 A ~ Lea County New Mexico

Lab Order Number: 7F11015

Report Date: 06/27/07

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

Project: EME Jct. A-2-1
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	7F11015-01	Water	06/08/07 14:45	06-11-2007 16:30
Monitor Well #2	7F11015-02	Water	06/08/07 13:00	06-11-2007 16:30
Monitor Well #3	7F11015-03	Water	06/08/07 13:50	06-11-2007 16:30

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

Project: EME Jct. A-2-1
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 (7F11015-01) Water									
Benzene	0.0220	0.00100	mg/L	1	EF71312	06/13/07	06/15/07	EPA 8021B	
Toluene	0.00147	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00799	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00768	0.00100	"	"	"	"	"	"	
Xylene (o)	1 [0.000577]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	80-120		"	"	"	"	
Monitor Well #2 (7F11015-02) Water									
Benzene	ND	0.00100	mg/L	1	EF71312	06/13/07	06/15/07	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		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
Monitor Well #3 (7F11015-03) Water									
Benzene	ND	0.00100	mg/L	1	EF71312	06/13/07	06/15/07	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		98.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-120		"	"	"	"	

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Project: EME Jct. A-2-1
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 (7F11015-01) Water									
Total Alkalinity	760	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	8500	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	23900	10.0	"	1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	6760	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Monitor Well #2 (7F11015-02) Water									
Total Alkalinity	710	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	9300	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	25000	10.0	"	1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	7280	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Monitor Well #3 (7F11015-03) Water									
Total Alkalinity	770	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	8300	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	21400	10.0	"	1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	5350	250	"	500	EF71504	06/15/07	06/15/07	EPA 300.0	

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Hobbs NM, 88240

Project: EME Jct. A-2-1
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 (7F11015-01) Water									
Calcium	426	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	176	3.60	"	100	"	"	"	"	
Potassium	26.8	0.600	"	10	"	"	"	"	
Sodium	9110	86.0	"	2000	"	"	"	"	
Monitor Well #2 (7F11015-02) Water									
Calcium	524	8.10	mg/L	100	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	238	3.60	"	"	"	"	"	"	
Potassium	26.5	0.600	"	10	"	"	"	"	
Sodium	10300	86.0	"	2000	"	"	"	"	
Monitor Well #3 (7F11015-03) Water									
Calcium	333	8.10	mg/L	100	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	146	3.60	"	"	"	"	"	"	
Potassium	27.1	0.600	"	10	"	"	"	"	
Sodium	8010	86.0	"	2000	"	"	"	"	

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Project: EME Jct. A-2-1
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
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Batch EF71312 - EPA 5030C (GC)

Blank (EF71312-BLK1)

Prepared: 06/13/07 Analyzed: 06/15/07

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	46.1		ug/l	50.0		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.1		"	50.0		82.2	80-120			

LCS (EF71312-BS1)

Prepared: 06/13/07 Analyzed: 06/15/07

Benzene	0.0508	0.00100	mg/L	0.0500		102	80-120			
Toluene	0.0522	0.00100	"	0.0500		104	80-120			
Ethylbenzene	0.0541	0.00100	"	0.0500		108	80-120			
Xylene (p/m)	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (o)	0.0527	0.00100	"	0.0500		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.2		ug/l	50.0		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	80-120			

Calibration Check (EF71312-CCV1)

Prepared: 06/13/07 Analyzed: 06/15/07

Benzene	0.0493		mg/L	0.0500		98.6	80-120			
Toluene	0.0501		"	0.0500		100	80-120			
Ethylbenzene	0.0485		"	0.0500		97.0	80-120			
Xylene (p/m)	0.0906		"	0.100		90.6	80-120			
Xylene (o)	0.0506		"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	48.6		ug/l	50.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	46.8		"	50.0		93.6	80-120			

Matrix Spike (EF71312-MS1)

Source: 7F12005-03

Prepared: 06/13/07 Analyzed: 06/15/07

Benzene	0.0494	0.00100	mg/L	0.0500	ND	98.8	80-120			
Toluene	0.0505	0.00100	"	0.0500	ND	101	80-120			
Ethylbenzene	0.0534	0.00100	"	0.0500	ND	107	80-120			
Xylene (p/m)	0.0936	0.00100	"	0.100	ND	93.6	80-120			
Xylene (o)	0.0523	0.00100	"	0.0500	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	50.4		ug/l	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	47.1		"	50.0		94.2	80-120			

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 5 of 10

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

Project: EME Jct. A-2-1
 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
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Batch EF71312 - EPA 5030C (GC)

Matrix Spike Dup (EF71312-MSD1)

Source: 7F12005-03

Prepared: 06/13/07 Analyzed: 06/15/07

Benzene	0.0478	0.00100	mg/L	0.0500	ND	95.6	80-120	3.29	20	
Toluene	0.0495	0.00100	"	0.0500	ND	99.0	80-120	2.00	20	
Ethylbenzene	0.0523	0.00100	"	0.0500	ND	105	80-120	1.89	20	
Xylene (p/m)	0.0913	0.00100	"	0.100	ND	91.3	80-120	2.49	20	
Xylene (o)	0.0506	0.00100	"	0.0500	ND	101	80-120	3.88	20	
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/l	50.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	47.1		"	50.0		94.2	80-120			

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

Project: EME Jct. A-2-1
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
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Batch EF71403 - General Preparation (WetChem)

Blank (EF71403-BLK1) Prepared & Analyzed: 06/14/07

Total Alkalinity	ND	2.00	mg/L							
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LCS (EF71403-BS1) Prepared & Analyzed: 06/14/07

Bicarbonate Alkalinity	170	2.00	mg/L	200		85.0	85-115			
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Duplicate (EF71403-DUP1) Source: 7F11010-01 Prepared & Analyzed: 06/14/07

Total Alkalinity	320	2.00	mg/L		320			0.00	20	
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Reference (EF71403-SRM1) Prepared & Analyzed: 06/14/07

Total Alkalinity	250		mg/L	250		100	90-110			
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Batch EF71504 - General Preparation (WetChem)

Blank (EF71504-BLK1) Prepared & Analyzed: 06/15/07

Sulfate	ND	0.500	mg/L							
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Chloride	ND	0.500	"							
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LCS (EF71504-BS1) Prepared & Analyzed: 06/15/07

Sulfate	10.1	0.500	mg/L	10.0		101	80-120			
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Chloride	9.83	0.500	"	10.0		98.3	80-120			
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Calibration Check (EF71504-CCV1) Prepared & Analyzed: 06/15/07

Chloride	9.07		mg/L	10.0		90.7	80-120			
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Sulfate	12.0		"	10.0		120	80-120			
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Duplicate (EF71504-DUP1) Source: 7F11014-01 Prepared & Analyzed: 06/15/07

Sulfate	104	12.5	mg/L		104			0.00	20	
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Chloride	734	12.5	"		731			0.410	20	
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. A-2-1
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 EF71504 - General Preparation (WetChem)										
Duplicate (EF71504-DUP2)		Source: 7F11017-01			Prepared & Analyzed: 06/15/07					
Sulfate	76.7	5.00	mg/L		77.6			1.17	20	
Chloride	67.9	5.00	"		69.9			2.90	20	
Matrix Spike (EF71504-MS1)		Source: 7F11014-01			Prepared & Analyzed: 06/15/07					
Chloride	992	12.5	mg/L	250	731	104	80-120			
Sulfate	354	12.5	"	250	104	100	80-120			
Matrix Spike (EF71504-MS2)		Source: 7F11017-01			Prepared & Analyzed: 06/15/07					
Sulfate	174	5.00	mg/L	100	77.6	96.4	80-120			
Chloride	168	5.00	"	100	69.9	98.1	80-120			
Batch EF71519 - General Preparation (WetChem)										
Blank (EF71519-BLK1)					Prepared: 06/12/07 Analyzed: 06/15/07					
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EF71519-DUP1)		Source: 7F11009-01			Prepared: 06/12/07 Analyzed: 06/15/07					
Total Dissolved Solids	24600	10.0	mg/L		23000			6.72	20	
Duplicate (EF71519-DUP2)		Source: 7F11014-03			Prepared: 06/12/07 Analyzed: 06/15/07					
Total Dissolved Solids	1380	10.0	mg/L		1340			2.94	20	

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: EME Jct. A-2-1
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
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Batch EF71902 - 6010B/No Digestion

Blank (EF71902-BLK1)

Prepared & Analyzed: 06/19/07

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

Calibration Check (EF71902-CCV1)

Prepared & Analyzed: 06/19/07

Calcium	2.04		mg/L	2.00		102	85-115			
Magnesium	2.00		"	2.00		100	85-115			
Potassium	2.13		"	2.00		106	85-115			
Sodium	2.04		"	2.00		102	85-115			

Duplicate (EF71902-DUP1)

Source: 7F11010-01

Prepared & Analyzed: 06/19/07

Calcium	956	40.5	mg/L		940			1.69	20	
Magnesium	337	3.60	"		346			2.64	20	
Potassium	29.9	0.600	"		30.9			3.29	20	
Sodium	2970	21.5	"		2940			1.02	20	

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: EME Jct: A-2-1
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: _____

6/27/2007

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

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.

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice
 Date/ Time: 6-11-07 4:30
 Lab ID #: 711015
 Initials: al

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.0 °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



**ARDINAL
LABORATORIES**

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: (505) 397-1471

Receiving Date: 08/22/07
Reporting Date: 08/27/07
Project Number: NOT GIVEN
Project Name: EME JUNCTION A-2-1
Project Location: T20S-R36E-SEC2 A ~ LEA COUNTY -
NEW MEXICO

Sampling Date: 08/21/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
	ANALYSIS DATE	08/23/07	08/23/07	08/23/07	08/23/07
H13152-1	MONITOR WELL #1	0.034	0.004	0.012	0.022
H13152-2	MONITOR WELL #2	<0.004	<0.004	<0.004	<0.012
H13152-3	MONITOR WELL #3	<0.004	<0.004	<0.004	<0.012
	Quality Control	0.096	0.085	0.086	0.264
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	96	85	86	88
	Relative Percent Difference	0.9	1.8	0.8	2.8

METHOD: EPA SW-846 8021B

Benzetta J. Cooke
Chemist

8/27/07
Date



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: (505) 397-1471

Receiving Date: 08/22/07
 Reporting Date: 08/28/07
 Project Owner: NOT GIVEN
 Project Name: EME JUNCTION A-2-1
 Project Location: T20S-R36E-SEC2 A~LEA COUNTY, NM

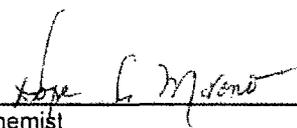
Sampling Date: 08/21/07
 Sample Type: WATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		08/23/07	08/23/07	08/23/07	08/23/07	08/23/07	08/23/07
H13152-1	MONITOR WELL #1	7605	559	254	11.8	30,700	560
H13152-2	MONITOR WELL #2	8068	665	270	11.4	33,300	640
H13152-3	MONITOR WELL #3	8067	439	161	11.5	28,800	640
Quality Control		NR	51.9	49.2	1.94	1414	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	104	98.4	97.0	100	NR
Relative Percent Difference		NR	8.0	6.3	2.1	0.6	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		08/23/07	08/23/07	08/23/07	08/23/07	08/23/07
H13152-1	MONITOR WELL #1	8197	6611	0	6.85	23,775
H13152-2	MONITOR WELL #2	8797	7005	0	6.76	26,155
H13152-3	MONITOR WELL #3	7798	7381	0	6.85	21,200
Quality Control		520	25.4	NR	939	6.95
True Value QC		500	25.0	NR	1000	7.00
% Recovery		104	101	NR	93.9	99.3
Relative Percent Difference		3.9	1.1	NR	1.4	< 0.1

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

08/28/07
 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. Cardinal and its subsidiaries shall 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.



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

Receiving Date: 12/05/07
Reporting Date: 12/06/07
Project Number: NOT GIVEN
Project Name: EME JUNCTION A-2-1
Project Location: T20S-R36E-SEC2 A ~ LEA COUNTY, NM

Sampling Date: 12/04/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/06/07	12/06/07	12/06/07	12/06/07
H13850-1	MONITOR WELL #1	0.088	<0.001	0.021	0.010
H13850-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H13850-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.103	0.099	0.099	0.312
True Value QC		0.100	0.100	0.100	0.300
% Recovery		103	99	99	104
Relative Percent Difference		1.7	1.6	1.5	1.4

METHOD: EPA SW-846 8021B

Burgess A. Cooke
Chemist

12/6/07
Date

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

Receiving Date: 12/05/07
 Reporting Date: 12/11/07
 Project Number: NOT GIVEN
 Project Name: EME JUNCTION A-2-1
 Project Location: T20S-R36E-SEC2 A-LEA COUNTY, NM

Sampling Date: 12/04/07
 Sample Type: WATER
 Sample Condition: COOL & INTACT
 Sample Received By: AB
 Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/10/07	12/10/07	12/10/07	12/10/07	12/07/07	12/07/07
H13850-1	MONITOR WELL #1	7,903	420	230	11.4	31,900	684
H13850-2	MONITOR WELL #2	8,069	552	246	10.7	33,200	708
H13850-3	MONITOR WELL #3	7,869	526	266	33.2	33,100	696
Quality Control		NR	49.2	50.8	2.88	1,404	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	102	96.0	99.4	NR
Relative Percent Difference		NR	< 0.1	1.6	12.4	1.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		12/07/07	12/07/07	12/07/07	12/07/07	12/07/07	12/06/07
H13850-1	MONITOR WELL #1	8,800	5,870	0	834	7.05	23,481
H13850-2	MONITOR WELL #2	8,800	6,570	0	864	6.93	25,329
H13850-3	MONITOR WELL #3	8,600	6,480	0	849	6.90	24,814
Quality Control		500	28.0	NR	1000	7.04	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	112	NR	100	101	NR
Relative Percent Difference		2.0	5.8	NR	1.2	0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Kristin Supplee
 Chemist

12/11/07
 Date

101 East Mariand - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: **RICE Operating Company** PO#: _____
 Project Manager: **Kristin Farris-Pope, Project Scientist**
 Address: (Street, City, Zip) **122 W Taylor Street ~ Hobbs, New Mexico 88240**
 Phone #: (505) 393-9174 Fax #: (505) 397-1471
 Project #: (505) 393-9174 Fax #: (505) 397-1471

Project Location: **T20S-R36E-Sec2 A ~ Lea County - New Mexico**
 Project Name: **EME Junction A-2-1**
 Sampler Signature: *Rozanne Johnson* (505) 631-9310
 rozanne@valornet.com

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	MATRIX			PRESERVATIVE METHOD				SAMPLING	
			WATER	AIR	SLUDGE	HCL (240ml VOA)	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE (1-1liter HDPE)	DATE (2007)
H13850-1	Monitor Well #1	3	X			2			1	12-4	14:55
-2	Monitor Well #2	3	X			2			1	12-4	12:15
-3	Monitor Well #3	3	X			2			1	12-4	13:35

Requested by: *Rozanne Johnson* Date: 12-5-07 Time: 11:50
 Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____
 Received By: (Laboratory Staff) _____ Date: 4/5/07 Time: 11:50am
 Sample Condition: Yes No Cool Intact
 CHECKED BY: *RBJ* (Initialed) *AB* 2.50c

ANALYSIS REQUEST (Circle or Specify Method No.)

GC/MS Vol. 8260B/624	
GC/MS Semi. Vol. 8270C/625	
PCBs 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
Moisture Content	
Cations (Ca, Mg, Na, K)	X
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	X
Total Dissolved Solids	X
Chlorides	X

REMARKS: _____
 Email Results to: kpope@riceswd.com
weinheimer@riceswd.com
rozanne@valornet.com

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

W COUNTY ROAD 30
MIDLAND, TX 79758

COORDINATES

Latitude (North): 32.042670 - 32° 2' 33.6"
Longitude (West): 102.303220 - 102° 18' 11.6"
Universal Transverse Mercator: Zone 13
UTM X (Meters): 754654.1
UTM Y (Meters): 3548158.5
Elevation: 2931 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 32102-A3 HACKBERRY LAKE, TX
Most Recent Revision: 1974

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL LIENS..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
LIENS 2..... CERCLA Lien Information
CORRACTS..... Corrective Action Report
RCRA-TSDF..... RCRA - Transporters, Storage and Disposal
RCRA-LQG..... RCRA - Large Quantity Generators

Live Search Maps

Search results for **St Mary Land and Exploration company**

1. **St Maryland & Exploration Co**
580 Westlake Park Blvd, Houston, TX
15.71mi (281) 496-0977
2. **St Mary Land & Exploration Co**
580 Westlake Park Blvd, Houston, TX
15.71mi (281) 677-2800

