

AP - 43

STAGE 1 & 2 REPORTS

DATE:

JAN. 22, 2003

1R0427-89

DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE FORM**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	A-20	A	20	20S	37E	Lea	Length	Width	Depth
							Box Has Not Been Built Yet		

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

Depth to Groundwater _____ 25 _____ feet NMOCD SITE ASSESSMENT RANKING SCORE: _____ 20 _____

Date Started _____ 10/1/2001 _____ Date Completed _____ not complete _____ OCD Witness _____ No _____

Soil Excavated _____ 150 _____ cubic yards Excavation Length _____ 15 _____ Width _____ 15 _____ Depth _____ 25 _____ feet

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

FINAL ANALYTICAL RESULTS: Sample Date _____ n/a _____ Sample Depth _____ n/a _____

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
Vadose Zone Samples Will Be Included With Final Closure Report							

CHLORIDE FIELD TESTS

General Description of Remedial Action: Site was delineated vertically and laterally with a backhoe. Chloride and TPH impact was consistent vertically. Impact was found to reach groundwater when it was exposed. A cased monitor well was installed and the groundwater has been sampled and analyzed quarterly (see annual groundwater report for results). Oil has been found on the water during sampling and ROC regularly removes the oil until only a skim remains. ROC has contracted a hydrologic consultant to assist ROC in developing a remediation plan for the vadose zone at groundwater-impacted sites with the ultimate objective being final closure.

LOCATION	DEPTH (ft)	ppm
Vertical	7	1150
	11	3400
	15	2000
Groundwater	25	3200

TPH FIELD TESTS

Vertical	8	14400
	10	14600
	14	28800
	18	26800
	22	25700

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

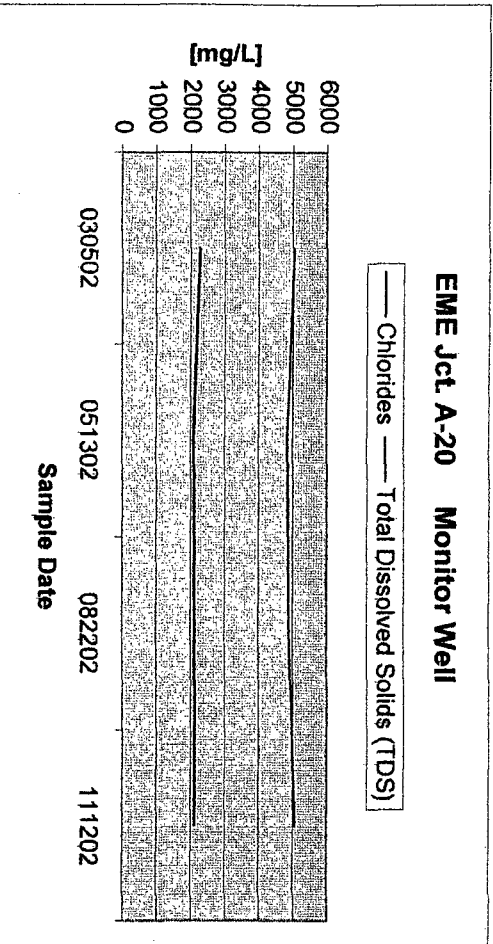
DATE _____ 1/22/2003 _____ PRINTED NAME _____ Kristin Farris _____
SIGNATURE _____ *Kristin Farris* _____ TITLE _____ Project Scientist _____

EME Jct. A-20
A, 20, 20S, 37E

Rice Operating Co. Monitor Well Data Sheet

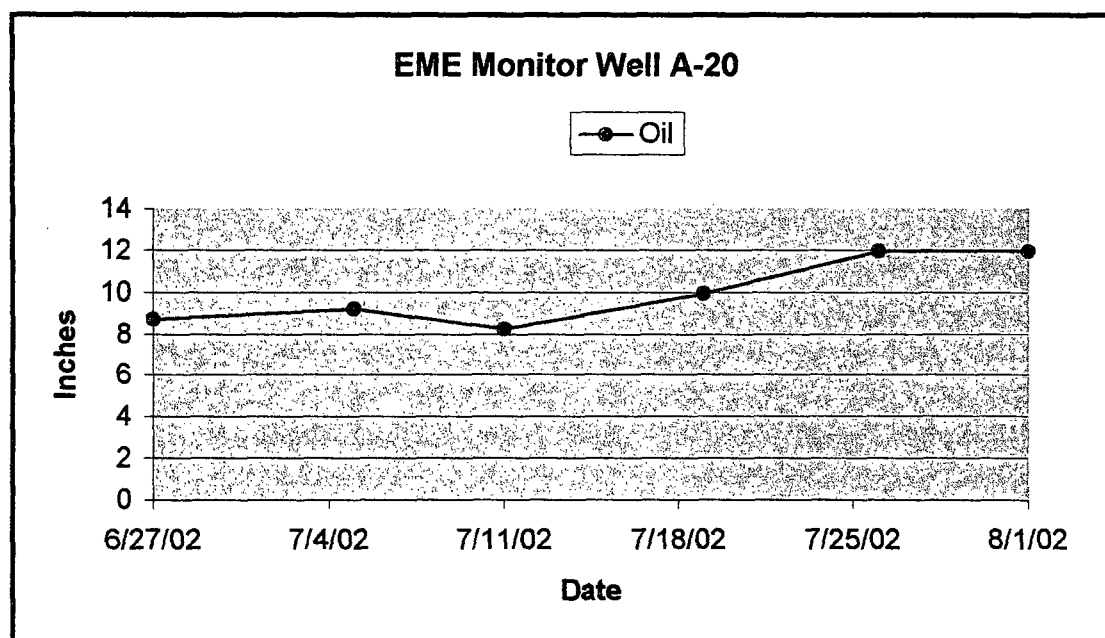
All parameter concentrations are in mg/L.

MW #	(ft)		(gal)		SAMPLE DATE	TIME	CL.	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	
	WATER LEVEL	TOTAL DEPTH	WELL VOLUME	VOLUME BAILED									
1	24.70	38.40	2.200	6.70	030502	1130	2279	5044	<0.002	0.003	0.006	0.014	
1	25.62	38.22	2.000	6.00	051302	1145	2100	4840	XXX	XXX	XXX	XXX	12" oil
1	26.00	38.25	1.960	6.00	082202	1625	2130	4890	XXX	XXX	XXX	XXX	15.5" oil
1	24.97	38.25	2.125	6.50	111202	1500	2130	5070	XXX	XXX	XXX	XXX	oil film



EME A-20
Monitor Well

<u>Date</u>	<u>Height of oil (in.)</u>	<u>Depth to water (ft.)</u>
6/27/02	8.75	25.40
7/5/02	9.25	25.36
7/11/02	8.30	25.30
7/19/02	10.00	25.32
7/26/02	12.00	25.48
8/1/02	12.00	25.64



ANALYTICAL REPORT

Prepared for:

**Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240**

Project: Jct. A-20
PO#: 510
Order#: G0205003
Report Date: 11/16/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0205003
Project:
Project Name: Jct. A-20
Location: EME

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205003-01	MW 1	WATER	11/12/02 15:00	11/12/02 19:15	L HDPE	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 4 C			
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0205003
Project:
Project Name: Jct. A-20
Location: EME

Lab ID: 0205003-01
Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	450	mg/L	1	2.00	310.1	11/13/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	11/13/02	SB
Chloride	2130	mg/L	1	5.00	9253	11/13/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	11/13/02	SB
SULFATE, 375.4	780	mg/L	25	12.5	375.4	11/14/02	SB

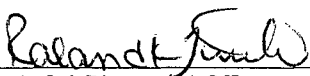
Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	240	mg/L	100	1.0	6010B	11/15/02	SM
Magnesium	23.1	mg/L	100	0.10	6010B	11/15/02	SM
Potassium	22.9	mg/L	10	0.50	6010B	11/15/02	SM
Sodium	1130	mg/L	1000	10.0	6010B	11/15/02	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	5070	mg/L	1	5.0	160.1	11/13/02	TAL

Approval:


Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

11-18-02
Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0205003

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0003746-01			<2.00	
Carbonate Alkalinity-mg/L		0003747-01			<0.10	
Chloride-mg/L		0003750-01			<5.00	
Hydroxide Alkalinity-mg/L		0003748-01			<0.10	
SULFATE, 375.4-mg/L		0003767-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0204999-01	512		510	0.4%
Carbonate Alkalinity-mg/L		0204999-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0204999-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0204999-01	2.8		2.9	3.5%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204999-01	3720	5000	8680	99.2%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204999-01	3720	5000	8600	97.6%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0003746-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0003747-04		0.05	0.0496	99.2%
Chloride-mg/L		0003750-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0003748-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0003767-04		50	53.2	106.4%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0205003

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003781-02			<0.010		
Magnesium-mg/L		0003781-02			<0.001		
Potassium-mg/L		0003781-02			<0.050		
Sodium-mg/L		0003781-02			<0.010		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0204999-01	171		172		0.6%
Magnesium-mg/L		0204999-01	6.77		7.47		9.8%
Potassium-mg/L		0204999-01	11		11.6		5.3%
Sodium-mg/L		0204999-01	1940		1900		2.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003781-05		2	2.09	104.5%	
Magnesium-mg/L		0003781-05		2	1.89	94.5%	
Potassium-mg/L		0003781-05		2	1.75	87.5%	
Sodium-mg/L		0003781-05		2	1.88	94.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0205003

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0003753-01			<5.0		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0204999-01	6020		6070		0.8%

12500 West I-20 East
Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Farris

Company Name

RICE Operating

Company Address:

122 W. Taylor

City/State/Zip:

Hobbs, NM 88240

Telephone No. 1

(505) 393-9174

Sampler Signature:

Kristin Lewis

Fax No:

(505) 397-1471

PO #:

510

Project #:

Project Loc:

EME

Project Name:

1st. A-20

[illegible]

ANALYTICAL REPORT

Prepared for:

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

A-20

Project: MW 1
PO#:
Order#: G0204340
Report Date: 09/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0204340
Project:
Project Name: MW 1
Location: EME A-20

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204340-01	MW 1	WATER	8/22/02 16:25	8/23/02 19:25	L HDPE	None
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0204340
Project:
Project Name: MW 1
Location: EME A-20

Lab ID: 0204340-01
Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	386	mg/L	1	2.00	310.1	8/26/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/26/02	SB
Chloride	2130	mg/L	1	5.00	9253	8/28/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/26/02	SB
SULFATE, 375.4	822	mg/L	1	0.5	375.4	8/28/02	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	250	mg/L	100	1.0	6010B	9/3/02	SM
Magnesium	217	mg/L	100	0.10	6010B	9/3/02	SM
Potassium	26.4	mg/L	10	0.50	6010B	9/3/02	SM
Sodium	1,340	mg/L	1000	10.0	6010B	9/3/02	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	4890	mg/L	1	5.0	160.1	8/26/02	SB

Approval:

Raland K. Tuttle 9-05-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0204340

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0002990-01			<2.00	
Carbonate Alkalinity-mg/L		0002981-01			<0.10	
Chloride-mg/L		0002987-01			<5.00	
Hydroxide Alkalinity-mg/L		0002982-01			<0.10	
SULFATE, 375.4-mg/L		0002991-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0204339-01	358		360	0.6%
Carbonate Alkalinity-mg/L		0204339-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0204339-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0204339-01	2380		2360	0.8%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0204339-01	2040	1000	3050	101.0%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Chloride-mg/L		0204339-01	2040	1000	3030	99.0% 0.7%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Bicarbonate Alkalinity-mg/L		0002990-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0002981-04		0.05	0.0496	99.2%
Chloride-mg/L		0002987-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0002982-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0002991-04		50	49.1	98.2%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204340

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0003026-01			<0.010	
Magnesium-mg/L		0003026-01			<0.001	
Potassium-mg/L		0003026-01			<0.050	
Sodium-mg/L		0003026-01			<0.010	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0204340-01	250		260	3.9%
Magnesium-mg/L		0204340-01	217		210	3.3%
Potassium-mg/L		0204340-01	26.4		26.2	0.8%
Sodium-mg/L		0204340-01	1340		1,330	0.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0003026-04		2	2.07	103.5%
Magnesium-mg/L		0003026-04		2	2.19	109.5%
Potassium-mg/L		0003026-04		2	1.75	87.5%
Sodium-mg/L		0003026-04		2	1.93	96.5%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204340

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002985-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204339-01	7740		7770		0.4%

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: MW |
Project #:
Project Loc: EME A-20
PO #:

Project Manager: K. Farris
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No.: (505) 393-9174
Fax No.: (505) 397-1471
Sampler Signature: K. Farris

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ANALYTICAL REPORT

Prepared for:

DONNIE ANDERSON
RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242

Project: A-20
Order#: G0203353
Report Date: 05/17/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242
505-397-1471

Order#: G0203353
Project:
Project Name: A-20
Location: EME SWD

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<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203353-01	MW 1	WATER	5/13/02 11:45	5/15/02 10:00	L HDPE	None
<u>Lab Testing:</u>		Rejected: No	Temp: 18.5 C			
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING COMPANY
122 W. TAYLOR
HOBBS, NM 88242

Order#: G0203353
Project:
Project Name: A-20
Location: EME SWD

Lab ID: 0203353-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	328	mg/L	1	2.0	310.1	5/15/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.1	310.1	5/15/02	SB
Chloride	2100	mg/L	1	5.00	9253	5/16/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.1	310.1	5/15/02	SB
SULFATE, 375.4	793	mg/L	25	125	375.4	5/17/02	SB

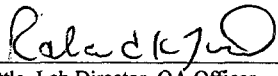
Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	245	mg/L	50	0.500	6010B	5/16/02	SM
Magnesium	174	mg/L	50	0.050	6010B	5/16/02	SM
Potassium	23.0	mg/L	10	0.500	6010B	5/16/02	SM
Sodium	1010	mg/L	250	2.50	6010B	5/16/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	4840	mg/L	1	5.0	160.1	5/15/02	SB

Approval:

 5-19-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0203353

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0001737-01			<2.00	
Carbonate Alkalinity-mg/L		0001738-01			<0.10	
Chloride-mg/L		0001733-01			<5.00	
Hydroxide Alkalinity-mg/L		0001739-01			<0.10	
SULFATE, 375.4-mg/L		0001741-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0203354-01	292		293	0.3%
Carbonate Alkalinity-mg/L		0203354-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0203354-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0203355-01	610		610	0.0%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0203354-01	860	500	1360	100.0%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0203354-01	860	500	1360	100.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0001737-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0001738-04		0.05	0.0496	99.2%
Chloride-mg/L		0001733-04		5000	5050	101.0%
Hydroxide Alkalinity-mg/L		0001739-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0001741-04		50	49.9	99.8%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0203353

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0001725-02			<0.010	
Magnesium-mg/L		0001725-02			<0.001	
Potassium-mg/L		0001725-02			<0.050	
Sodium-mg/L		0001725-02			<0.010	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0203354-01	266		264	0.8%
Magnesium-mg/L		0203354-01	106		106	0.0%
Potassium-mg/L		0203354-01	15.4		14.8	4.0%
Sodium-mg/L		0203354-01	303		308	1.6%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Calcium-mg/L		0001725-05		2	1.99	99.5%
Magnesium-mg/L		0001725-05		2	2.06	103.0%
Potassium-mg/L		0001725-05		2	1.77	88.5%
Sodium-mg/L		0001725-05		2	1.91	95.5%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203353

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0001731-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0203354-01	2680		2760		2.9%

12500 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: A-20

Project #:

Project Loc: FME SWD

PO #: 716

716

Fax No: (505) 397-1471

Sampler Signature: Justin Jarriss

[illegible]



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/05/02
Reporting Date: 03/08/02
Project Owner: RICE
Project Name: RICE A-20
Project Location: NOT GIVEN

Sampling Date: 03/05/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO ₃ /L)
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ANALYSIS DATE:	03/08/02	03/08/02	03/08/02	03/08/02	03/08/02	03/08/02
H6563-1 WROA203502MW	1405	295	200	19.5	8029	297
Quality Control	NR	55	49	5.27	1489	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	110	97.2	105	105	NR
Relative Percent Difference	NR	0	6.0	0	0.3	NR

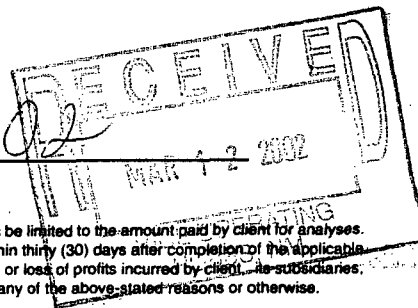
METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	03/08/02	03/08/02	03/08/02	03/08/02	03/08/02	03/06/02
H6563-1 WROA203502MW	2279	1087	0	363	7.42	5044
Quality Control	1040	52.66	NR	975	7.11	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	104	105	NR	97.5	102	NR
Relative Percent Difference	2.0	0.6	NR	2.7	0.4	5.1

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

Amy Hill
Chemist

3-8-02
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.

H6563



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

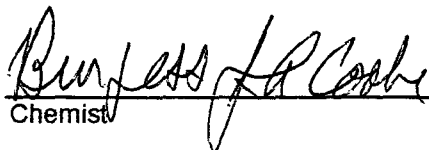
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: DONNIE ANDERSON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/05/02
Reporting Date: 03/06/02
Project Owner: RICE OPERATING
Project Name: RICE A-20
Project Location: NOT GIVEN

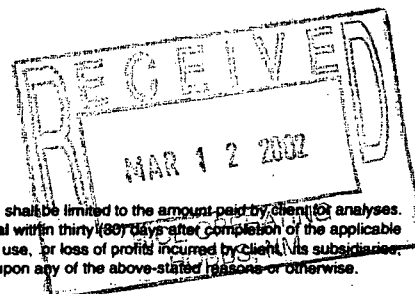
Sampling Date: 03/05/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		03/05/02	03/05/02	03/05/02	03/05/02
H6563-1	WROA203502MW	<0.002	0.003	0.006	0.014
Quality Control		0.098	0.096	0.092	0.260
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.6	96.0	91.7	86.7
Relative Percent Difference		2.5	4.1	9.1	15.2

METHOD: EPA SW-846 8260


Chemist

3/6/02
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.

H6563B.XLS

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

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ENVIRONMENTAL PLUS, INC.

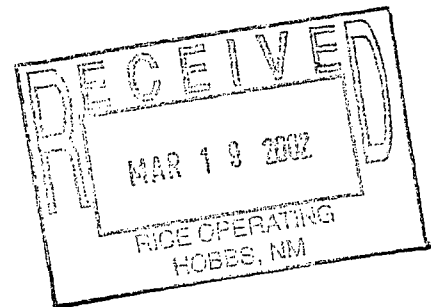
Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

March 10, 2002

Mr. Donnie Anderson
Rice Operating Company
122 West Taylor
Hobbs, New Mexico 88240



Subject: Zachary Hinton #5 and A-20 Monitor Well Sampling

Dear Mr. Anderson,

Included below is the development and sampling information collected by Environmental Plus, Inc. (EPI) on 3-5-02 for the Zachary Hinton and A-20 monitor wells.

RICE OPERATING
ZACHARY HINTON AND A-20 MONITOR WELLS

MONITOR WELL ID	DATE	WELL CASING INSIDE DIAMETER INCHES	WATER LEVEL FROM TOP OF CASING FEET	TOTAL DEPTH FROM TOP OF CASING FEET	BORE WATER VOLUME GALLONS	PURGE VOLUME GALLONS	PURGE WATER OBSERVATIONS
ZACHARY HINTON	3/5/2002	2	56.1	67.0	1.8	5.3	NO OIL SHEEN ON PURGE WATER
A-20	3/5/2002	2	24.7	38.4	2.2	6.7	OIL SHEEN ON PURGE WATER

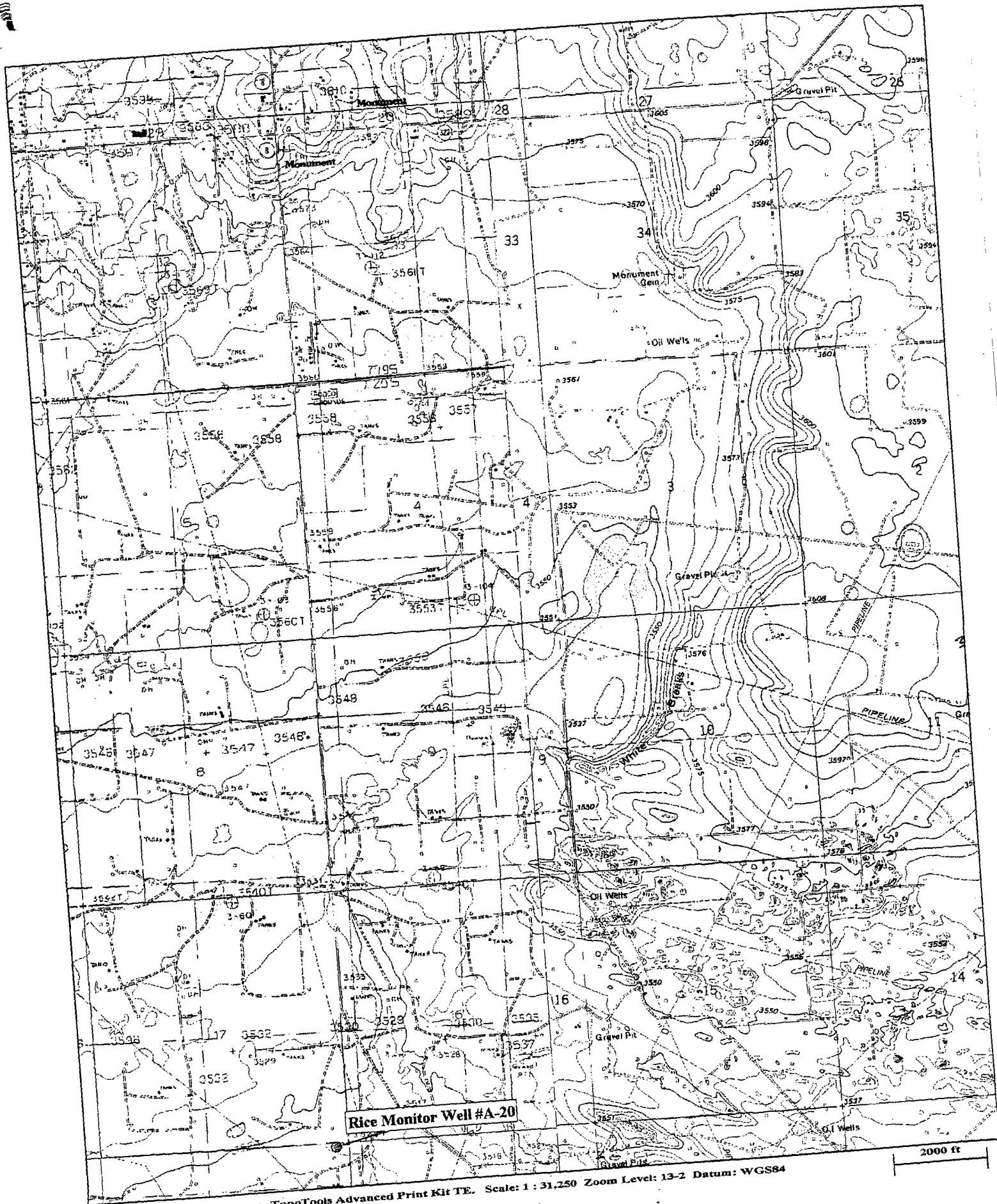
If you have any questions or require more information please call Mr. Ben Miller or myself at the office or at 505.390.0288 or 505.390.7864, respectively.

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

ENVIRONMENTAL PLUS, INC.



DRILLING LOG		Site Name/Location			Logged by: DEA	
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471		Jct. Box A-20 20-T20S-R37E EME SWD System Lea County, NM		Well No: MW1	Date Drilled: 2/28/02	Driller: Eades
		Well Depth: 35'	Boring Depth: 35'	Well Material: PVC	Construction: Sand and bentonite above screen.	
		Casing Length: 20	Boring Diameter: 4.75"	Casing Size: 2"		
		Screen Length: 15'	Drilling Method: Air Rotary	Slot Size: N/A		

TEST					
DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	(ppm)	REMARKS	Boring
0	Ground surface		Cr		
1	Topsoil				
2	Caliche				
3					
4					
5					
6					cuttings
7					
8					
9					
10					
11					
12	Sandy brown clay				
13					
14					
15					
16					
17					
18	Sand			TPH odor	bentonite
19				"	
20				"	
21				"	
22				"	
23				"	
24					
25					
26					
27					
28					
29					water
30					
31	Sandy brown clay				
32					
33					
34					
35					

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7000 1530 0005 9895 4473

January 29, 2002

Mr. Roger Anderson
NM Energy, Minerals, and Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

RECEIVED
FER 01 2002
Environmental Bureau
Oil Conservation Division

RE: NOTIFICATION OF GROUNDWATER IMPACT
EUNICE MONUMENT EUMONT (EME) SWD SYSTEM, JCT A-20
Unit Letter A, Sec. 20, T20S, R37E, Lea County, NM

Mr. Anderson:

Rice Operating Company (ROC) takes this opportunity to notify the Director of the NMOCD, Environmental Bureau of groundwater impact in accordance with NM Rule 116. The Jct. A-20 site qualifies for this notification. The remediation of this site may fall under NM Rule 19 procedures.

Impact of the vadose zone was delineated by trenching this site. There appears to be phase separated TPH present at groundwater. Groundwater in this area is 25' bgs. ROC will backfill the excavation with clean soil to satisfy our safety concerns. A remediation plan will be developed for this site and submitted to the NMOCD for approval.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of the pipelines, wells or facilities. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Please accept this notification for Jct. A-20.

RICE OPERATING COMPANY


Donnie Anderson
Project Leader-Environmental

Cc: LBG, CDH, SC, file Mr. Chris Williams
NMOCD, District 1 Office
1625 N. French Drive
Hobbs, NM 88240