

AP - 64

**ANNUAL GW MONITORING
REPORT**

DATE:

2002

RICE Operating Company

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

AP-64
Annual GW Mon. Report
2002

CERTIFIED MAIL

RETURN RECIEPT NO. 7002 2410 0000 4940 0834

April 4, 2003

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

RECEIVED
APR 07 2003
Environmental Bureau
Oil Conservation Division

**RE: 2002 MONITOR WELL REPORT/SAMPLING SUMMARY
ROC F-29 SWD FACILITY, HOBBS, NEW MEXICO
SEC. 29, T18S, R38E**

Mr. Price:

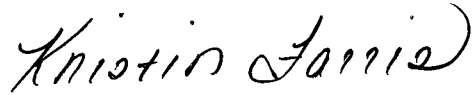
Rice Operating Company (ROC) takes this opportunity to submit the 2002 Monitor Well Report for the F-29 Salt Water Disposal Facility located on the West County Road Bypass in Hobbs. There are 3 monitor wells at this site that are sampled quarterly pursuant to NMOCD guidelines. These groundwater impacts became evident during the removal of redwood tanks in 1999.

Safety & Environmental Solutions, Inc performed 2002 first quarter sampling of the monitor wells. Second quarter samples were provided by Whole Earth Environmental Inc. and ROC. In the third quarter, BBC International Inc. performed the sampling. Environmental Technology Group, Inc. sampled the monitor wells in the fourth quarter of 2002. Water samples were analyzed by Cardinal Laboratories of Hobbs or Environmental Lab of Texas of Odessa. ROC has contracted ETGI to sample these monitor wells in the 2003 year.

Concentrations of chloride and total dissolved solids (TDS) have been below or only slightly higher than WQCC standards at all monitor wells at the site. These concentrations are not detrimental to drinking water because there is no privately owned land surrounding the site, as Occidental Permian Corporation (OXY) owns the surrounding land. ROC will to continue monitoring the wells but would like to propose sampling only bi-annually due to the consistency of the results. OXY has been informed of this proposal.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

RICE OPERATING COMAPANY

A handwritten signature in black ink that reads "Kristin Farris". The script is cursive and fluid, with the first name and last name clearly legible.

Kristin Farris
Project Scientist

Enclosures: Summary table & graph
 Analytical results
 Domestic water well survey

Cc: LBG, CDH, Roy Escobedo, file,

Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

All parameter concentrations are in mg/L

MW #	WATER LEVEL	TOTAL DEPTH	WELL VOLUME	BAILED VOLUME	SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
------	-------------	-------------	-------------	---------------	-------------	------	-----	-----	---------	---------	---------------	---------------

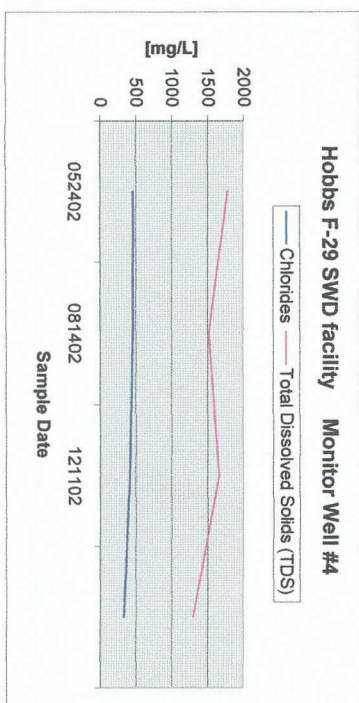
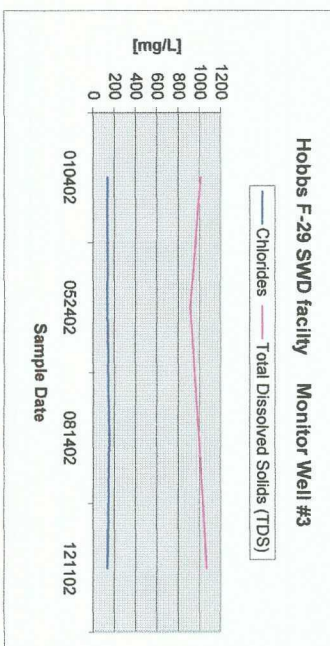
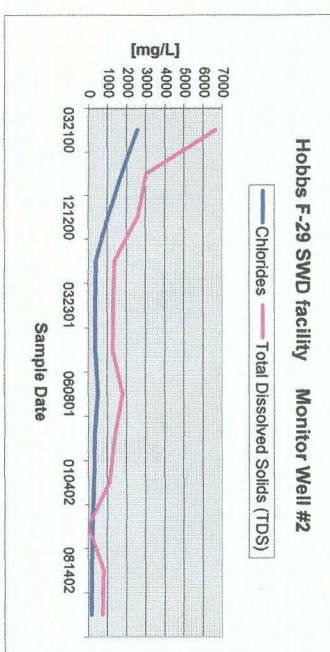
2	XXX	XXX	XXX	XXX	032100	XXX	2564	6660	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	092700	XXX	1748	3032	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	121200	XXX	1027	2586	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	031601	XXX	386	1373	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	032301	XXX	368	1312	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	050701	XXX	365	1272	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	060801	XXX	513	1796	XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX	XXX	081401	XXX	340	1385	XXX	XXX	XXX	XXX
51.16	59.15	0.205	XXX	XXX	010402	XXX	308	1114	XXX	XXX	XXX	XXX
51.90	62.80	8.800	80.00	060602	1425	221	XXX	0.100	0.100	0.100	0.300	0.300
52.07	59.93	6.500	20.50	081402	1445	186	806	<0.001	<0.001	<0.001	<0.001	<0.001
52.58	59.82	4.710	14.12	121102	0827	172	738	<0.002	<0.002	<0.002	<0.002	<0.006

(4.5" diameter, clear & sandy; lost bailer)

3	51.24	53.50	0.362	XXX	010402	XXX	136	1013	XXX	XXX	XXX	XXX
51.75	65.10	2.136	6.50	052402	1040	137	917	<0.001	<0.001	<0.001	<0.001	<0.001
52.12	66.33	2.274	9.00	081402	1520	151	998	<0.001	<0.001	<0.001	<0.001	<0.001
52.64	64.65	1.920	5.76	121102	0915	136	1069	0.005	<0.002	<0.002	<0.002	<0.006

(sandy)

4	51.56	53.74	0.349	XXX	010402	XXX	464	1781	XXX	XXX	XXX	XXX
52.10	64.85	2.040	6.25	052402	1330	461	1520	<0.001	<0.001	<0.001	<0.001	<0.001
52.50	65.30	2.048	8.50	081402	1550	416	1660	<0.001	<0.001	<0.001	<0.001	<0.001
53.00	63.59	1.690	5.08	121102	854	336	1302	0.003	<0.002	<0.002	<0.002	<0.006





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: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 12/11/02
Reporting Date: 12/16/02
Project Number: WELL #F-29
Project Name: HOBBS SWD STATION F-29
Project Location: HOBBS, NM

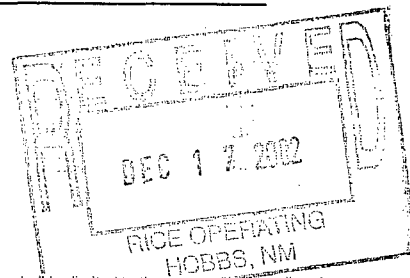
Sampling Date: 12/11/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
H7302-1	MW2	97	98	14	3.20	881	165
H7302-2	MW3	110	121	26	2.25	1149	250
H7302-3	MW4	172	135	33	2.18	1519	200
Quality Control		NR	42	41	4.67	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	84.0	82.0	93.4	93.6	NR
Relative Percent Difference		NR	0.8	1.4	1.0	0.7	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:		12/12/02	12/12/02	12/12/02	12/12/02	12/12/02	12/12/02
H7302-1	MW2	172	106	0	201	6.56	738
H7302-2	MW3	136	201	0	305	6.86	1069
H7302-3	MW4	336	170	0	244	6.98	1302
Quality Control		970	50.20	NR	1068	6.76	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		97.0	100	NR	107	96.6	NR
Relative Percent Difference		1.0	0.7	NR	7.7	0.1	0.4
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Chemist

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 licensors 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

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

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

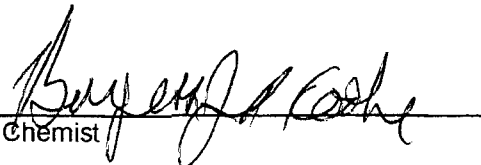
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 12/11/02
Reporting Date: 12/13/02
Project Number: WELL #F-29
Project Name: HOBBS SWD STATION F-29
Project Location: HOBBS, NM

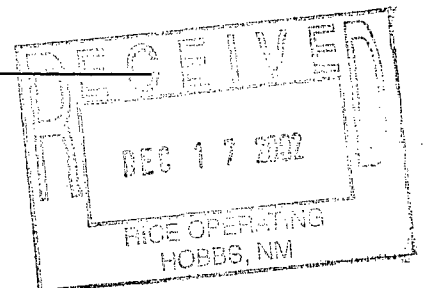
Sampling Date: 12/11/02
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/11/02	12/11/02	12/11/02	12/11/02
H7302-1	MW 2	<0.002	<0.002	<0.002	<0.006
H7302-2	MW 3	0.005	<0.002	<0.002	<0.006
H7302-3	MW 4	0.003	<0.002	<0.002	<0.006
H7302-4	E.B.-1	<0.002	<0.002	<0.002	<0.006
Quality Control		0.098	0.094	0.091	0.267
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.5	93.6	90.6	88.9
Relative Percent Difference		0.8	1.9	0.2	0.8

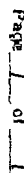
METHOD: EPA SW-846 8260


Chemist

12/13/02
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.



ANALYSIS REQUEST

Company Name: E.T.C.I. Project Manager:		Company: Rice Operating PO #:	
Address: 2540 W. Maryland City: Hobbs State: N.M. Zip: 88240		Address: 128 W. Taylor City: Hobbs State: N.M. Zip: 88240	
Phone #: 505-397-4882 Fax #: 505-397-4701		Phone #: 505-393-9174 Fax #: 505-397-1471	
Project #: Well # F-29 Project Owner: Rice Operating Project Name: Hobbs SLD Station F-29 Project Location: Hobbs, NM			

LAB I.D.		Sample I.D.		FOR LAB USE ONLY	
H7302-1	mw 2	(G)RAB OR (C)OMP.			
-2	mw 3	# CONTAINERS			
-3	mw 4	GROUNDWATER			
-4	E.B.-1	WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID:			
		ICE / COOL			
		OTHER :			
		DATE			
		TIME			

LAB I.D.		Sample I.D.		FOR LAB USE ONLY	
H7302-1	mw 2	(G)RAB OR (C)OMP.			
-2	mw 3	# CONTAINERS			
-3	mw 4	GROUNDWATER			
-4	E.B.-1	WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID:			
		ICE / COOL			
		OTHER :			
		DATE			
		TIME			

REMARKS: Bill directly to Rice Operating		ANALYSIS REQUEST	
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PHONE (505) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: bbc@bbcinternational.com

Letter of Transmittal

Date: August 27, 2002

To: Kristen Farris
Rice Operating Company
122 W. Taylor
Hobbs, NM 88240

From: Ken Swinney

Please find the attached report of the sampling activities conducted at the F-29 tank battery site on August 14, 2002.

I thank you for this opportunity to conduct sampling operations for Rice. If you require any additional information, please do not hesitate to contact me at 397-6388.

Sincerely,

Ken Swinney, CEI, CRS
Director of Operations



PHONE (505) 397-6388 • FAX (505) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: bbc@bbcinternational.com

Rice Operating Company - F-29 Tank Battery Hobbs, NM

Purging and Sampling Activities:

On August 14, 2002, BBC personnel purged and sampled three monitor wells at the Rice F-29 tank battery site located in west Hobbs. These wells were MW-2, MW-3, and MW-4.

The monitor wells were first gauged for total depth then depth to groundwater. The wells were then purged three (3) well volumes prior to sampling. The purging equipment was decontaminated and rinsed after each well was purged.

After each well was purged, two sterile glass 40 ml VOA sampling vials preserved with HCL and one sterile 1 liter polyethylene container were filled for analysis of BTEX and major ions. The samples were placed into an ice chest and preserved with ice. A chain of custody was filled out, signed by a BBC specialist, and then relinquished to Kristen Farris at Rice's offices at 16:14 MDT.

Both, the purged water from the monitor wells and the decon/rinse water was pumped into a 55 gallon drum which was disposed of at the OCD-approved disposal facility of Sundance Services in Eunice, NM (see attached waste manifest).

The data from the gauging, purging, and sampling is depicted below in **Table 1**.

Table 1.

Monitor Well	Date	Total Depth (feet)	Depth to Groundwater (feet)	Amount of Fluid Purged (gallons)	Sample Time (24 hr.) MDT
MW-2	8-14-02	59.93	52.07	20.5	14:45
MW-3	8-14-02	66.33	52.12	9.00	15:20
MW-4	8-14-02	65.30	52.50	8.5	15:50

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

142 58166

LEASE OPERATOR/SHIPPER/COMPANY: RICE

LEASE NAME: F-29

TRANSPORTER COMPANY: BBC

TIME: _____ AM/PM

DATE: 8-15-02

VEHICLE NO.: _____

DRIVER NO.: _____

CHARGE TO: BBC

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: _____

☐ Other Material:

☐ BS&W Content: _____

Description: P/W

VOLUME OF MATERIAL ☒ BBLs. 55941 drum

☐ YARD _____ : ☐ _____

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter

Revised 12/27/95



PHONE (505) 397-6388 • FAX (505) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: bbc@bbcinternational.com

Rice Operating Company - F-29 Tank Battery Hobbs, NM

Purging and Sampling Activities:

On August 14, 2002, BBC personnel purged and sampled three monitor wells at the Rice F-29 tank battery site located in west Hobbs. These wells were MW-2, MW-3, and MW-4.

The monitor wells were first gauged for total depth then depth to groundwater. The wells were then purged three (3) well volumes prior to sampling. The purging equipment was decontaminated and rinsed after each well was purged.

After each well was purged, two sterile glass 40 ml VOA sampling vials preserved with HCL and one sterile 1 liter polyethylene container were filled for analysis of BTEX and major ions. The samples were placed into an ice chest and preserved with ice. A chain of custody was filled out, signed by a BBC specialist, and then relinquished to Kristen Farris at Rice's offices at 16:14 MDT.

Both, the purged water from the monitor wells and the decon/rinse water was pumped into a 55 gallon drum which was disposed of at the OCD-approved disposal facility of Sundance Services in Eunice, NM (see attached waste manifest).

The data from the gauging, purging, and sampling is depicted below in **Table 1**.

Table 1.

Monitor Well	Date	Total Depth (feet)	Depth to Groundwater (feet)	Amount of Fluid Purged (gallons)	Sample Time (24 hr.) MDT
MW-2	8-14-02	59.93	52.07	20.5	14:45
MW-3	8-14-02	66.33	52.12	9.00	15:20
MW-4	8-14-02	65.30	52.50	8.5	15:50

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NC 58168

LEASE OPERATOR/SHIPPER/COMPANY: RICE

LEASE NAME: F-29

TRANSPORTER COMPANY: BBC

TIME: _____ AM/PM

DATE: 8-15-02 VEHICLE NO.: _____

DRIVER NO.: _____

CHARGE TO: BBC

TYPE OF MATERIAL

☒ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.: _____

☐ Other Material:

☐ BS&W Content: _____

Description: P/W

VOLUME OF MATERIAL ☒ BBLs. 1 : 559+1 drum ☐ YARD _____ : ☐ _____

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

ANALYTICAL REPORT

Prepared for:

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

Project: MW-2
PO#: ROC F-29
Order#: G0204221
Report Date: 08/22/2002

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#: G0204221
Project:
Project Name: MW-2
Location: F-29

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>
0204221-01	MW 2	WATER	8/14/02 14:45	8/14/02 20:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204221
Project:
Project Name: MW-2
Location: F-29

Lab ID: 0204221-01
Sample ID: MW 2

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0002915-02		8/20/02 23:31	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	73	115
Bromofluorobenzene	111%	72	110

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.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204221
Project:
Project Name: MW-2
Location: F-29

Lab ID: 0204221-01
Sample ID: MW 2

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Calcium	130	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM
Magnesium	22.8	mg/L	10	0.010	6010B	08/21/2002	8/22/02	SM
Potassium	7.83	mg/L	1	0.050	6010B	08/21/2002	8/22/02	SM
Sodium	168	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM

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.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204221
Project:
Project Name: MW-2
Location: F-29

Lab ID: 0204221-01
Sample ID: MW 2

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	188	mg/L	1	2.00	310.1	8/15/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
Chloride	186	mg/L	1	5.00	9253	8/17/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
SULFATE, 375.4	144	mg/L	1	0.5	375.4	8/16/02	SB

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)	806	mg/L	1	5.0	160.1	8/15/02	SB

Approval:

Raland K. Tuttle 8-23-02

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.

Order#: G0204221

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204221

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002883-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204220-01	577		588		1.9%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204221

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0002915-02			<0.001	
Ethylbenzene-mg/L		0002915-02			<0.001	
Toluene-mg/L		0002915-02			<0.001	
p/m-Xylene-mg/L		0002915-02			<0.001	
o-Xylene-mg/L		0002915-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0204268-01	0	0.1	0.095	95.%
Ethylbenzene-mg/L		0204268-01	0	0.1	0.097	97.%
Toluene-mg/L		0204268-01	0	0.1	0.099	99.%
p/m-Xylene-mg/L		0204268-01	0	0.2	0.201	100.5%
o-Xylene-mg/L		0204268-01	0	0.1	0.094	94.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0204268-01	0	0.1	0.099	99.%
Ethylbenzene-mg/L		0204268-01	0	0.1	0.101	101.%
Toluene-mg/L		0204268-01	0	0.1	0.103	103.%
p/m-Xylene-mg/L		0204268-01	0	0.2	0.210	105.%
o-Xylene-mg/L		0204268-01	0	0.1	0.100	100.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0002915-05		0.1	0.104	104.%
Ethylbenzene-mg/L		0002915-05		0.1	0.107	107.%
Toluene-mg/L		0002915-05		0.1	0.106	106.%
p/m-Xylene-mg/L		0002915-05		0.2	0.222	111.%
o-Xylene-mg/L		0002915-05		0.1	0.106	106.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204221

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002943-02			<0.01		
Magnesium-mg/L		0002943-02			<0.001		
Potassium-mg/L		0002943-02			<0.05		
Sodium-mg/L		0002943-02			<0.01		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0204220-04	100		99.5		0.5%
Magnesium-mg/L		0204220-04	13.7		13.5		1.5%
Potassium-mg/L		0204220-04	5.48		5.4		1.5%
Sodium-mg/L		0204220-04	78.8		78.7		0.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002943-05		2	2.02	101.%	
Magnesium-mg/L		0002943-05		2	1.91	95.5%	
Potassium-mg/L		0002943-05		2	1.94	97.%	
Sodium-mg/L		0002943-05		2	2	100.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204221

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002883-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204220-01	577		588		1.9%

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Sampler Signature: James H. Leary

Fax No: (505) 397-1471

PO #: ROC F-29

[illegible]

ANALYTICAL REPORT

Prepared for:

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

Project: MW 3
PO#: ROC F-29
Order#: G0204222
Report Date: 08/22/2002

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#: G0204222
Project:
Project Name: MW 3
Location: F-29

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>
0204222-01	MW 3	WATER	8/14/02 15:20	8/14/02 20:00	See COC	n/a
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204222
Project:
Project Name: MW 3
Location: F-29

Lab ID: 0204222-01
Sample ID: MW 3

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0002915-02		8/21/02 9:25	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	108%	73	115
Bromofluorobenzene	113%	72	110

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.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204222
Project:
Project Name: MW 3
Location: F-29

Lab ID: 0204222-01
Sample ID: MW 3

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>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	136	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM
Magnesium	26.3	mg/L	10	0.010	6010B	08/21/2002	8/22/02	SM
Potassium	6.6	mg/L	1	0.050	6010B	08/21/2002	8/22/02	SM
Sodium	175	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Date

Cele D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204222
Project:
Project Name: MW 3
Location: F-29

Lab ID: 0204222-01
Sample ID: MW 3

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	224	mg/L	1	2.00	310.1	8/15/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
Chloride	151	mg/L	1	5.00	9253	8/17/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
SULFATE, 375.4	284	mg/L	1	0.5	375.4	8/16/02	SB

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	998	mg/L	1	5.0	160.1	8/16/02	SB

Approval:

Raland K. Tuttle 8-23-02
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

8021B/5030 BTEX

Order#: G0204222

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0002915-02			<0.001	
Ethylbenzene-mg/L		0002915-02			<0.001	
Toluene-mg/L		0002915-02			<0.001	
p/m-Xylene-mg/L		0002915-02			<0.001	
o-Xylene-mg/L		0002915-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0204268-01	0	0.1	0.095	95.%
Ethylbenzene-mg/L		0204268-01	0	0.1	0.097	97.%
Toluene-mg/L		0204268-01	0	0.1	0.099	99.%
p/m-Xylene-mg/L		0204268-01	0	0.2	0.201	100.5%
o-Xylene-mg/L		0204268-01	0	0.1	0.094	94.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0204268-01	0	0.1	0.099	99.%
Ethylbenzene-mg/L		0204268-01	0	0.1	0.101	101.%
Toluene-mg/L		0204268-01	0	0.1	0.103	103.%
p/m-Xylene-mg/L		0204268-01	0	0.2	0.210	105.%
o-Xylene-mg/L		0204268-01	0	0.1	0.100	100.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
						RPD
Benzene-mg/L		0002915-05		0.1	0.104	104.%
Ethylbenzene-mg/L		0002915-05		0.1	0.107	107.%
Toluene-mg/L		0002915-05		0.1	0.106	106.%
p/m-Xylene-mg/L		0002915-05		0.2	0.222	111.%
o-Xylene-mg/L		0002915-05		0.1	0.106	106.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204222

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002943-02			<0.01		
Magnesium-mg/L		0002943-02			<0.001		
Potassium-mg/L		0002943-02			<0.05		
Sodium-mg/L		0002943-02			<0.01		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0204220-04	100		99.5		0.5%
Magnesium-mg/L		0204220-04	13.7		13.5		1.5%
Potassium-mg/L		0204220-04	5.48		5.4		1.5%
Sodium-mg/L		0204220-04	78.8		78.7		0.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002943-05		2	2.02	101.%	
Magnesium-mg/L		0002943-05		2	1.91	95.5%	
Potassium-mg/L		0002943-05		2	1.94	97.%	
Sodium-mg/L		0002943-05		2	2	100.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0204222

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0002845-01			<2.00	
Carbonate Alkalinity-mg/L		0002847-01			<0.10	
Chloride-mg/L		0002896-01			<5.00	
Hydroxide Alkalinity-mg/L		0002849-01			<0.10	
SULFATE, 375.4-mg/L		0002859-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0204220-01	250		251	0.4%
Carbonate Alkalinity-mg/L		0204220-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0204220-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0204220-01	110		110	0.0%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204220-01	70.9	250	319	99.2%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204220-01	70.9	250	319	99.2%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0002845-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0002847-04		0.05	0.0496	99.2%
Chloride-mg/L		0002896-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0002849-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0002859-04		50	49.4	98.8%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204222

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002884-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204222-01	998		905		9.8%

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Farris

Project Name: MW 3

Company Name

Rice Operating

Project #:

Company Address:

22 W. Taylor

Project Loc: F-29

City/State/Zip:

Hobbs, NM 88240

PO #: RDC F-29

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature:

Kenneth Swamy

[illegible]

ANALYTICAL REPORT

Prepared for:

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

Project: MW 4
PO#: ROC F-29
Order#: G0204223
Report Date: 08/22/2002

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#: G0204223
Project:
Project Name: MW 4
Location: F-29

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>
0204223-01	MW 4	WATER	8/14/02 15:51	8/14/02 20:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204223
Project:
Project Name: MW 4
Location: F-29

Lab ID: 0204223-01
Sample ID: MW 4

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0002915-02		8/21/02 9:47	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	108%	73	115
Bromofluorobenzene	122%	72	110

Approval:

Coley D. Keene 8/22/02
Raland K. Tuttle, Lab Director, QA Officer
Coley D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204223
Project:
Project Name: MW 4
Location: F-29

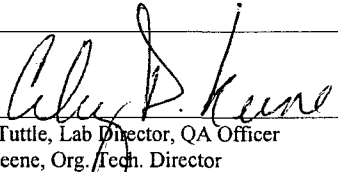
Lab ID: 0204223-01

Sample ID: MW 4

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>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	216	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM
Magnesium	43.7	mg/L	10	0.010	6010B	08/21/2002	8/22/02	SM
Potassium	7.84	mg/L	1	0.050	6010B	08/21/2002	8/22/02	SM
Sodium	309	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM

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.

Date

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204223
Project:
Project Name: MW 4
Location: F-29

Lab ID: 0204223-01
Sample ID: MW 4

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	204	mg/L	1	2.00	310.1	8/15/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
Chloride	416	mg/L	1	5.00	9253	8/17/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/15/02	SB
SULFATE, 375.4	303	mg/L	1	0.5	375.4	8/16/02	SB

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1660	mg/L	1	5.0	160.1	8/16/02	SB

Approval: Raland K. Tuttle 8-23-02
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

Test Parameters

Order#: G0204223

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002884-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204222-01	998		905		9.8%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204223

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0002915-02			<0.001		
Ethylbenzene-mg/L		0002915-02			<0.001		
Toluene-mg/L		0002915-02			<0.001		
p/m-Xylene-mg/L		0002915-02			<0.001		
o-Xylene-mg/L		0002915-02			<0.001		
MS	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0204268-01	0	0.1	0.095	95.%	
Ethylbenzene-mg/L		0204268-01	0	0.1	0.097	97.%	
Toluene-mg/L		0204268-01	0	0.1	0.099	99.%	
p/m-Xylene-mg/L		0204268-01	0	0.2	0.201	100.5%	
o-Xylene-mg/L		0204268-01	0	0.1	0.094	94.%	
MSD	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0204268-01	0	0.1	0.099	99.%	4.1%
Ethylbenzene-mg/L		0204268-01	0	0.1	0.101	101.%	4.%
Toluene-mg/L		0204268-01	0	0.1	0.103	103.%	4.%
p/m-Xylene-mg/L		0204268-01	0	0.2	0.210	105.%	4.4%
o-Xylene-mg/L		0204268-01	0	0.1	0.100	100.%	6.2%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0002915-05		0.1	0.104	104.%	
Ethylbenzene-mg/L		0002915-05		0.1	0.107	107.%	
Toluene-mg/L		0002915-05		0.1	0.106	106.%	
p/m-Xylene-mg/L		0002915-05		0.2	0.222	111.%	
o-Xylene-mg/L		0002915-05		0.1	0.106	106.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204223

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0002943-02			<0.01		
Magnesium-mg/L		0002943-02			<0.001		
Potassium-mg/L		0002943-02			<0.05		
Sodium-mg/L		0002943-02			<0.01		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0204220-04	100		99.5		0.5%
Magnesium-mg/L		0204220-04	13.7		13.5		1.5%
Potassium-mg/L		0204220-04	5.48		5.4		1.5%
Sodium-mg/L		0204220-04	78.8		78.7		0.1%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0002943-05		2	2.02	101.%	
Magnesium-mg/L		0002943-05		2	1.91	95.5%	
Potassium-mg/L		0002943-05		2	1.94	97.%	
Sodium-mg/L		0002943-05		2	2	100.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204223

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0002884-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0204222-01	998		905		9.8%

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Tarris
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174
Sample Signature: Kenneth Swearing

Project Name: MW 4
Project #:
Project Loc: F-29
PO #: ROC F-29

Fax No: (505) 397-1471

Analyze For:

[illegible]

Special Instructions:

Major cations + anions

Relinquished by:

Her Savings

Relinquished by:

Chapman

Received by:

K. J. J. J. J.

Recorded by ELDT

3

Date _____

81402 1614

Date	Time
8/402	1619

Date	Title
8/15/96	Pace

Sample Containers Intact?	Temperature Upon Receipt	Laboratory Comments

12.5 4.0 cc



To: Kristin Farrah / Rice Operating

From: Mike Griffin / Whole Earth Environmental, Inc.

Date: June 6, 2002

Subject: F-29 Bailing Activity

Kristin:

Since we're not writing up a report on this well bailing project, I thought it prudent to send you some of the relevant data in memo form.

Following the format contained within your "Rice Operating Company Monitor Well Data Sheet" the top of the water was 51.9' and the bottom approximately 62.8'. The well volume would thus be 8.8 gallons, ($\pi * r^2 * h$ or $3.1415 * 5.025^2 * 129$). We actually bailed about 80 gallons so we certainly passed the three-volume threshold.

Thanks again for the opportunity of working with you.

Mike

ANALYTICAL REPORT

Prepared for:

MIKE GRIFFIN
WHOLE EARTH
19606 SAN GABRIEL
HOUSTON, TX 77084

MW 2

Project: F-29
Order#: G0203579
Report Date: 06/17/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

WHOLE EARTH
19606 SAN GABRIEL
HOUSTON, TX 77084
281-646-8996

Order#: G0203579
Project:
Project Name: F-29
Location: Hobbs, NM

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.

<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>
0203579-01	F-29 MW-2	WATER	6/6/02 15:25	6/6/02 20:05	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: -2.0 C			
8021B/5030 BTEX						
Cations						
Alkalinity, Bicarbonate						
Alkalinity, Carbonate						
Alkalinity, Hydroxide						
Chloride						
SULFATE, 375.4						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MIKE GRIFFIN
WHOLE EARTH
19606 SAN GABRIEL
HOUSTON, TX 77084

Order#: G0203579
Project:
Project Name: F-29
Location: Hobbs, NM

Lab ID: 0203579-01
Sample ID: F-29 MW-2

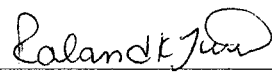
Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	86.4	mg/L	10	0.10	7140	6/26/02	CK
Magnesium	25.6	mg/L	10	0.010	7460	6/26/02	CK
Potassium	4.75	mg/L	1	0.050	7610	6/26/02	CK
Sodium	97.0	mg/L	10	0.10	7770	7/1/02	MB

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Alkalinity, Bicarbonate	178	mg/L as CaCO ₃	1	2.00	310.2	6/21/02	SB
Alkalinity, Carbonate	<0.10	mg/L as CaCO ₃	1	0.10	310.2	6/21/02	SB
Alkalinity, Hydroxide	<0.10	mg/L as CaCO ₃	1	0.10	310.1	6/21/02	SB
Chloride	221	mg/L	1	5.00	9253	6/11/02	SB
SULFATE, 375.4	135	mg/L	2.5	1.25	375.4	6/25/02	CC

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.

7-01-02

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

MIKE GRIFFIN
WHOLE EARTH
19606 SAN GABRIEL
HOUSTON, TX 77084

Order#: G0203579
Project:
Project Name: F-29
Location: Hobbs, NM

Lab ID: 0203579-01
Sample ID: F-29 MW-2

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001959-02		6/10/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Approval: Roland K. Tuttle 6-17-02
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

8021B/5030 BTEX

Order#: G0203579

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0001959-02			<0.001	
Ethylbenzene-mg/L		0001959-02			<0.001	
Toluene-mg/L		0001959-02			<0.001	
p/m-Xylene-mg/L		0001959-02			<0.001	
o-Xylene-mg/L		0001959-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0203585-02	0	0.1	0.104	104.%
Ethylbenzene-mg/L		0203585-02	0	0.1	0.100	100.%
Toluene-mg/L		0203585-02	0	0.1	0.098	98.%
p/m-Xylene-mg/L		0203585-02	0	0.2	0.200	100.%
o-Xylene-mg/L		0203585-02	0	0.1	0.100	100.%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0203585-02	0	0.1	0.096	96.% 8.%
Ethylbenzene-mg/L		0203585-02	0	0.1	0.092	92.% 8.3%
Toluene-mg/L		0203585-02	0	0.1	0.093	93.% 5.2%
p/m-Xylene-mg/L		0203585-02	0	0.2	0.183	91.5% 8.9%
o-Xylene-mg/L		0203585-02	0	0.1	0.092	92.% 8.3%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery RPD
Benzene-mg/L		0001959-05		0.1	0.102	102.%
Ethylbenzene-mg/L		0001959-05		0.1	0.098	98.%
Toluene-mg/L		0001959-05		0.1	0.096	96.%
p/m-Xylene-mg/L		0001959-05		0.2	0.194	97.%
o-Xylene-mg/L		0001959-05		0.1	0.098	98.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0203579

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002260-02			<0.010		
Magnesium-mg/L		0002260-02			0.010		
Potassium-mg/L		0002260-02			0.070		
Sodium-mg/L		0002260-02			0		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002260-03		10	9.70	97.0%	
Magnesium-mg/L		0002260-03		5	5.2	104.0%	
Potassium-mg/L		0002260-03		10	9.7	97.0%	
Sodium-mg/L		0002260-03		5	5.5	110.0%	
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0203579-01	86.4		88		1.8%
Magnesium-mg/L		0203579-01	25.6		25		2.4%
Potassium-mg/L		0203579-01	4.75		4.7		1.1%
Sodium-mg/L		0203579-01	97		97		0.0%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0002260-05		10	9.54	95.4%	
Magnesium-mg/L		0002260-05		5	5.0	100.0%	
Potassium-mg/L		0002260-05		10	10	100.0%	
Sodium-mg/L		0002260-05		5	5.2	104.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203579

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0002159-01			<2.00		
Alkalinity, Carbonate-mg/L as CaCO	0002160-01			<0.10		
Alkalinity, Hydroxide-mg/L as CaCO	0002161-01			<0.10		
Chloride-mg/L	0002043-01			<5.00		
SULFATE, 375.4-mg/L	0002176-01			<0.5		
CONTROL						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0002159-02		0.05	0.0496	99.2%	
Alkalinity, Carbonate-mg/L as CaCO	0002160-02		0.05	0.0496	99.2%	
Alkalinity, Hydroxide-mg/L as CaCO	0002161-02		0.05	0.0496	99.2%	
CONTROL DUP						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0002159-03		0.05	0.0496	99.2%	0.0%
Alkalinity, Carbonate-mg/L as CaCO	0002160-03		0.05	0.0496	99.2%	0.0%
Alkalinity, Hydroxide-mg/L as CaCO	0002161-03		0.05	0.0496	99.2%	0.0%
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SULFATE, 375.4-mg/L	0203579-01	135		137		1.5%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0203578-01	88.6	250	341	101.0%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0203578-01	88.6	250	341	101.0%	0.0%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0002043-04		5000	5050	101.0%	
SULFATE, 375.4-mg/L	0002176-04		50	46.5	93.0%	

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

M. G. F.

Project Name:

F-29

Company Name Whole Earth Environmental, Inc.

Project #:

Company Address: 19606 San Gabriel

Project Loc: Hobbs, NM.

City/State/Zip: Houston, Tx. 77084

PO #: ROC F-29-5147

Telephone No: 800.854.4358

Fax No: 281.646.8996

Sampler Signature:

M. Q. A.

[illegible]

ANALYTICAL REPORT

Prepared for:

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

MW 3

Project: F-29
Order#: G0203438
Report Date: 06/03/2002

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#: G0203438
Project:
Project Name: F-29
Location: Hobbs SWD

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.

<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>
0203438-01	MW 3	WATER	5/24/02 10:40	5/24/02 19:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

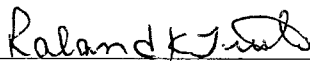
Order#: G0203438
Project:
Project Name: F-29
Location: Hobbs SWD

Lab ID: 0203438-01
Sample ID: MW 3

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001806-02		5/28/02 17:43	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Approval:  6-04-02
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

ANALYTICAL REPORT

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

Order#: G0203438
Project:
Project Name: F-29
Location: Hobbs SWD

Lab ID: 0203438-01
Sample ID: MW 3

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	270	mg/L	1	2.00	310.1	5/28/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	5/28/02	SB
Chloride	137	mg/L	1	5.00	9253	5/30/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	2	310.1	5/28/02	SB
SULFATE, 375.4	158	mg/L	5	2.5	375.4	5/31/02	CC

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	147	mg/L	50	0.500	6010B	5/31/02	SM
Magnesium	25.7	mg/L	10	0.010	6010B	5/31/02	SM
Potassium	5.45	mg/L	1	0.050	6010B	5/31/02	SM
Sodium	90.1	mg/L	50	0.500	6010B	5/31/02	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	917	mg/L	1	5.0	160.1	5/28/02	SB

Approval:

Raland K. Tuttle 6-04-02
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

8021B/5030 BTEX

Order#: G0203438

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0001806-02			<0.001		
Ethylbenzene-mg/L		0001806-02			<0.001		
Toluene-mg/L		0001806-02			<0.001		
p/m-Xylene-mg/L		0001806-02			<0.001		
o-Xylene-mg/L		0001806-02			<0.001		
MS							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0203439-04	0	0.1	0.105	105.%	
Ethylbenzene-mg/L		0203439-04	0	0.1	0.109	109.%	
Toluene-mg/L		0203439-04	0	0.1	0.110	110.%	
p/m-Xylene-mg/L		0203439-04	0	0.2	0.221	110.5%	
o-Xylene-mg/L		0203439-04	0	0.1	0.110	110.%	
MSD							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0203439-04	0	0.1	0.110	110.%	4.7%
Ethylbenzene-mg/L		0203439-04	0	0.1	0.114	114.%	4.5%
Toluene-mg/L		0203439-04	0	0.1	0.111	111.%	0.9%
p/m-Xylene-mg/L		0203439-04	0	0.2	0.231	115.5%	4.4%
o-Xylene-mg/L		0203439-04	0	0.1	0.116	116.%	5.3%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0001806-05		0.1	0.098	98.%	
Ethylbenzene-mg/L		0001806-05		0.1	0.102	102.%	
Toluene-mg/L		0001806-05		0.1	0.100	100.%	
p/m-Xylene-mg/L		0001806-05		0.2	0.208	104.%	
o-Xylene-mg/L		0001806-05		0.1	0.102	102.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0203438

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0001839-01			<2.00		
Carbonate Alkalinity-mg/L	0001840-01			<0.10		
Chloride-mg/L	0001833-01			<5.00		
Hydroxide Alkalinity-mg/L	0001841-01			<0.10		
SULFATE, 375.4-mg/L	0001847-01			<0.5		
CONTROL						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0001839-02		0.05	0.0491	98.2%	
Carbonate Alkalinity-mg/L	0001840-02		0.05	0.0491	98.2%	
Hydroxide Alkalinity-mg/L	0001841-02		0.05	0.0491	98.2%	
CONTROL DUP						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0001839-03		0.05	0.0496	99.2%	1.0%
Carbonate Alkalinity-mg/L	0001840-03		0.05	0.0496	99.2%	1.0%
Hydroxide Alkalinity-mg/L	0001841-03		0.05	0.0496	99.2%	1.0%
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SULFATE, 375.4-mg/L	0203436-01	286		275		3.9%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0203436-01	461	500	966	101.0%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0203436-01	461	500	957	99.2%	0.9%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0001833-04		5000	5050	101.0%	
SULFATE, 375.4-mg/L	0001847-04		50	45.3	90.6%	

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203438

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0001837-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0203385-02	522		506		3.1%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0203438

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0001863-02			<0.010		
Magnesium-mg/L		0001863-02			<0.001		
Potassium-mg/L		0001863-02			<0.050		
Sodium-mg/L		0001863-02			<0.010		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0203437-01	269		272		1.1%
Magnesium-mg/L		0203437-01	135		130		3.8%
Potassium-mg/L		0203437-01	13.9		13.7		1.4%
Sodium-mg/L		0203437-01	136		138		1.5%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0001863-05		2	1.96	98.8%	
Magnesium-mg/L		0001863-05		2	2.05	102.5%	
Potassium-mg/L		0001863-05		2	1.9	95.8%	
Sodium-mg/L		0001863-05		2	1.89	94.5%	

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris

Project Name: F-29

Company Name Rice Operating

Project #:

Company Address: 122 W. Taylor

Project Loc: Hobbs SWD

City/State/Zip: Hobbs, NM 88240

PO #: BAC F-29-5147

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Y. D. L. D. L. D.

[illegible]

ANALYTICAL REPORT

Prepared for:

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

MW 4

Project: F-29
Order#: G0203436
Report Date: 06/03/2002

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#: G0203436
Project:
Project Name: F-29
Location: Hobbs SWD

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.

<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>
0203436-01	MW 4	WATER	5/24/02 13:30	5/24/02 19:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp:	4 C		
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0203436
Project:
Project Name: F-29
Location: Hobbs SWD

Lab ID: 0203436-01
Sample ID: MW 4

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001806-02		5/28/02 16:59	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Approval:

Raland K. Tuttle 6-03-02
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.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0203436

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0001863-02			<0.010		
Magnesium-mg/L		0001863-02			<0.001		
Potassium-mg/L		0001863-02			<0.050		
Sodium-mg/L		0001863-02			<0.010		
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0203437-01	269		272		1.1%
Magnesium-mg/L		0203437-01	135		130		3.8%
Potassium-mg/L		0203437-01	13.9		13.7		1.4%
Sodium-mg/L		0203437-01	136		138		1.5%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0001863-05		2	1.96	98.%	
Magnesium-mg/L		0001863-05		2	2.05	102.5%	
Potassium-mg/L		0001863-05		2	1.9	95.%	
Sodium-mg/L		0001863-05		2	1.89	94.5%	

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0203436
Project:
Project Name: F-29
Location: Hobbs SWD

Lab ID: 0203436-01

Sample ID: MW 4

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	210	mg/L	1	2.00	310.1	5/28/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	5/28/02	SB
Chloride	461	mg/L	1	5.00	9253	5/30/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	2	310.1	5/28/02	SB
SULFATE, 375.4	286	mg/L	5	2.5	375.4	5/31/02	CC

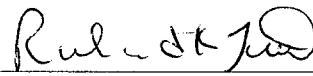
Cations

<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	186	mg/L	50	0.500	6010B	5/31/02	SM
Magnesium	46.6	mg/L	10	0.010	6010B	5/31/02	SM
Potassium	4.57	mg/L	5	0.250	6010B	5/31/02	SM
Sodium	185	mg/L	50	0.500	6010B	5/31/02	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)	1520	mg/L	1	5.0	160.1	5/28/02	SB

Approval:


Randal 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.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203436

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0001806-02			<0.001		
Ethylbenzene-mg/L		0001806-02			<0.001		
Toluene-mg/L		0001806-02			<0.001		
p/m-Xylene-mg/L		0001806-02			<0.001		
o-Xylene-mg/L		0001806-02			<0.001		
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0203439-04	0	0.1	0.105	105.0%	
Ethylbenzene-mg/L		0203439-04	0	0.1	0.109	109.0%	
Toluene-mg/L		0203439-04	0	0.1	0.110	110.0%	
p/m-Xylene-mg/L		0203439-04	0	0.2	0.221	110.5%	
o-Xylene-mg/L		0203439-04	0	0.1	0.110	110.0%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0203439-04	0	0.1	0.110	110.0%	4.7%
Ethylbenzene-mg/L		0203439-04	0	0.1	0.114	114.0%	4.5%
Toluene-mg/L		0203439-04	0	0.1	0.111	111.0%	0.9%
p/m-Xylene-mg/L		0203439-04	0	0.2	0.231	115.5%	4.4%
o-Xylene-mg/L		0203439-04	0	0.1	0.116	116.0%	5.3%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0001806-05		0.1	0.098	98.0%	
Ethylbenzene-mg/L		0001806-05		0.1	0.102	102.0%	
Toluene-mg/L		0001806-05		0.1	0.100	100.0%	
p/m-Xylene-mg/L		0001806-05		0.2	0.208	104.0%	
o-Xylene-mg/L		0001806-05		0.1	0.102	102.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0203436

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0001839-01			<2.00		
Carbonate Alkalinity-mg/L		0001840-01			<0.10		
Chloride-mg/L		0001833-01			<5.00		
Hydroxide Alkalinity-mg/L		0001841-01			<0.10		
SULFATE, 375.4-mg/L		0001847-01			<0.5		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0001839-02		0.05	0.0491	98.2%	
Carbonate Alkalinity-mg/L		0001840-02		0.05	0.0491	98.2%	
Hydroxide Alkalinity-mg/L		0001841-02		0.05	0.0491	98.2%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0001839-03		0.05	0.0496	99.2%	1.1%
Carbonate Alkalinity-mg/L		0001840-03		0.05	0.0496	99.2%	1.1%
Hydroxide Alkalinity-mg/L		0001841-03		0.05	0.0496	99.2%	1.1%
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
SULFATE, 375.4-mg/L		0203436-01	286		275		3.9%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0203436-01	461	500	966	101.1%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0203436-01	461	500	957	99.2%	0.9%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0001833-04		5000	5050	101.1%	
SULFATE, 375.4-mg/L		0001847-04		50	45.3	90.6%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203436

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0001837-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0203385-02	522		506		3.1%

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: F-29

Project #:

Project Loc: Hobbs SWD

PO #: ROC F-29-5147

PO #: ROC F-29-5177

Fax No: (505) 397-1471

Sampler Signature: Kevin Jones

[illegible]



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

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DAVE BOYER
703 E. CLINTON, STE. 103
HOBBS, NM 88240
FAX TO: (505) 393-4388

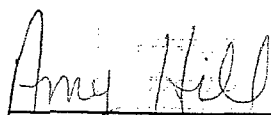
Receiving Date: 01/04/02
Reporting Date: 01/07/02
Project Number: NOT GIVEN
Project Name: RICE F-29
Project Location: HOBBS, NM

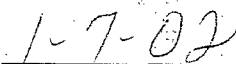
Sampling Date: 01/04/01
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Cl (mg/L)
ANALYSIS DATE:		01/07/02	01/04/02
H6390-1	MONITOR WELL #12	1114	308
H6390-2	NORTH WELL 3	1013	136
H6390-3	SOUTH WELL 4	1781	464
Quality Control		NR	1050
True Value QC		NR	1000
% Recovery		NR	105
Relative Percent Difference		5.1	3.0

METHODS: EPA 600/4-79-02	160.1	4500-ClB*
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*Std. Methods


Chemist


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, INC.

Page

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† Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

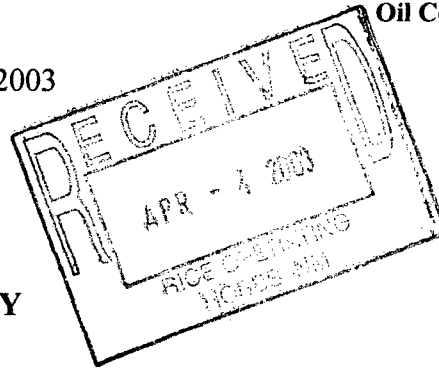
Lori Wrotenberg

Director

Oil Conservation Division

March 26, 2003

RICE OPERATING CO
122 W TAYLOR
HOBBS, NM 88240-0000



RE: DOMESTIC WATER WELL SURVEY

Gentlemen:

The State of New Mexico Oil Conservation Division (NMOCD) is initiating a study of ground water conditions in the vicinity of what has been called the Windmill Oil site. As part of this study, we are conducting a survey of water wells within sections 29 and 30 of Township 18 South Range 38 East, Lea County, New Mexico. Where water wells are identified, the NMOCD is requesting permission to sample water from the wells and submit the samples for a laboratory analysis of the ground water quality. The NMOCD has contracted with INTERA, Inc. to conduct the survey and sample the water wells. All water sampling costs and laboratory sample analyses will be paid for by the NMOCD. A copy of the analyses and an explanation of the water quality in each well will be provided to the well owners.

You have been identified as owning property in this area. We request that you please complete the attached well survey form and return the survey form in either the self-addressed stamped envelope or by fax as indicated on the form. If you have a water well, our contractor, INTERA, Inc., will be contacting you on behalf of the NMOCD to request a convenient time to sample your water well. Your cooperation in this survey is greatly appreciated and will help us better understand the ground water conditions in this area.

If you have any questions, please don't hesitate to call me at (505) 476-3490 or Bill Olson of my staff at (505) 476-3491. Thank you for your cooperation.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief



DOMESTIC WATER WELL SURVEY
WINDMILL OIL SITE

The information gathered in this survey is for the sole purpose of conducting a domestic well sampling program at the request of the New Mexico Oil Conservation Division. Your information will aid our field technicians in developing a schedule that will accommodate your availability. We would like to thank you for your aid and ask that you complete this survey in a timely manner and to the best of your knowledge. Please complete and return using the enclosed self addressed stamped envelope or fax to (505) 246-2600 Attn: Jerome A. Marez.

Property Owner(s) Name: RICE Operating Company

Address: 122 W. Taylor Hobbs

State: NM Zip: 88240

How many wells are located on the property? 3 How many wells are for domestic use? 0

Where is each domestic use well located on the Property? Please describe with as much detail as possible.

Well No. 1: _____

Well No. 2: _____

Well No. 3: _____

Well No. 4: _____

When was each domestic use well constructed (MM/DD/YY)?

Well No. 1 _____ Well No. 2 _____ Well No. 3 _____

Well No. 4 _____

What is each domestic use well approximate total depth and depth to water?

Well No. 1 _____ Well No. 2 _____

Well No. 3 _____ Well No. 4 _____

How can the well be accessed? Exterior access point (lawn spigot, at well, etc) or interior access point (kitchen faucet, bathroom sink, etc)

Well No. 1 _____ Well No. 2 _____ Well No. 3 _____

Well No. 4 _____

Please circle the following:

Day(s) and time(s) that would best for our technician to visit and take water samples?

DAY:

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

TIME:

7:00 am 9:00 am 11:00 am 1:00 pm 3:00 pm 5:00 pm 7:00 pm

When would be the best time to call to arrange an appointment to test your well on the day(s) and time(s) specified above?

Person to Call Kristin Farris

Telephone Daytime: 393-9174 Evening: _____

Mobile Phone: 631-5075

For the protection of our technicians, please list all animals located onsite or around the well location.

Animals Located Onsite (livestock, dogs, etc): None

Are any of the domestic use wells registered with State of New Mexico Engineer's office? Yes or No?

Additional comments or questions regarding this survey:

All 3 wells are monitoring wells for the purpose of groundwater monitoring. OCD + Rice Operating has analysis for every quarter since 2000.

I hereby grant access to INTERA representatives to my property for the sole purpose of obtaining water samples for testing from my domestic supply well. I also verify that I (or a representative for me) will be available during the time(s) indicated above.

Name: Kristin Farris

Signature: Kristin Farris