1R – 428 - 41

ANNUAL GW MONITOR REPORT

DATE:

2007

1R428-41
Annual GW Mon. Report 2007

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

RECEIVED
2008 FEB 7 PM 2 42

January 24, 2008

Wayne Price
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2007 Annual Ground Water Monitoring Report
I-29 Vent, Sec 29, T18S, R38E, Unit "I"
NMOCD Case #: 1R428-41

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the I-29 Vent site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
3. Laboratory data sheets associated with the routine sampling for 2007.
4. Site Survey

A Correction Action Plan was submitted to NMOCD on April 13, 2007. The Correction Action Plan was approved by NMOCD on July 18, 2007. In August of 2007, the site was seeded to create the proposed infiltration barrier through surface restoration and vegetation. A Closure Report was submitted to NMOCD on Decemeber 4, 2007; we respectively request NMOCD approval in writing. As noted in the Closure Report, ROC plans to leave the well at this site in place pending investigation of other Section 29 sites.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of this report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.

Randall T. Hicks
Principal

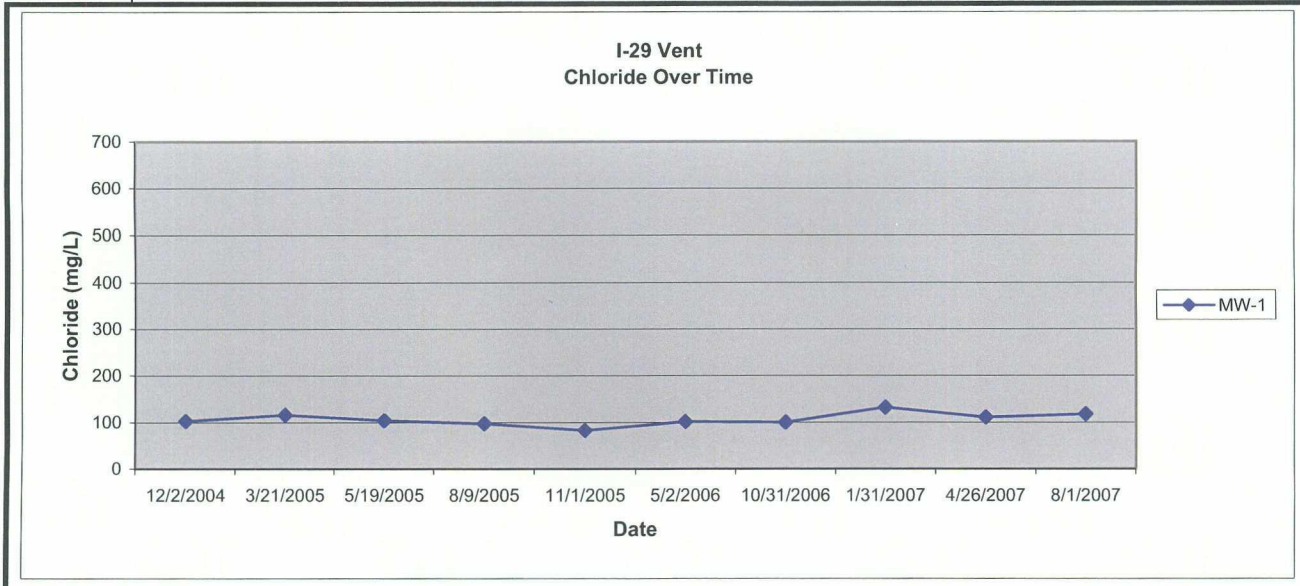
Copy: Hobbs NMOCD office; Rice Operating Company

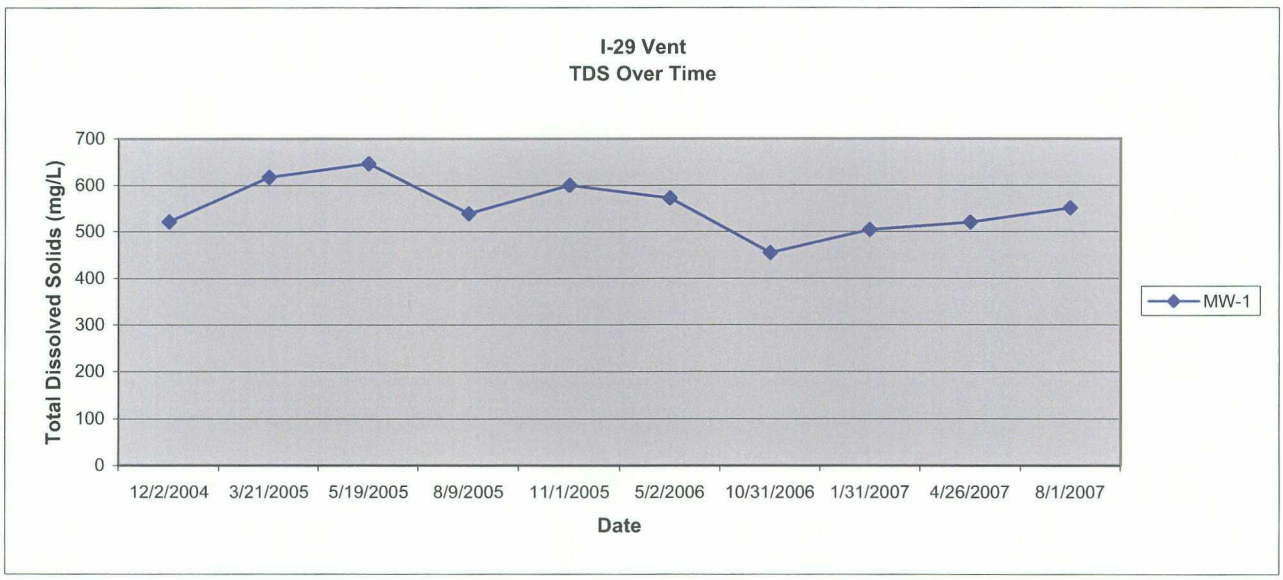
I-29 Vent

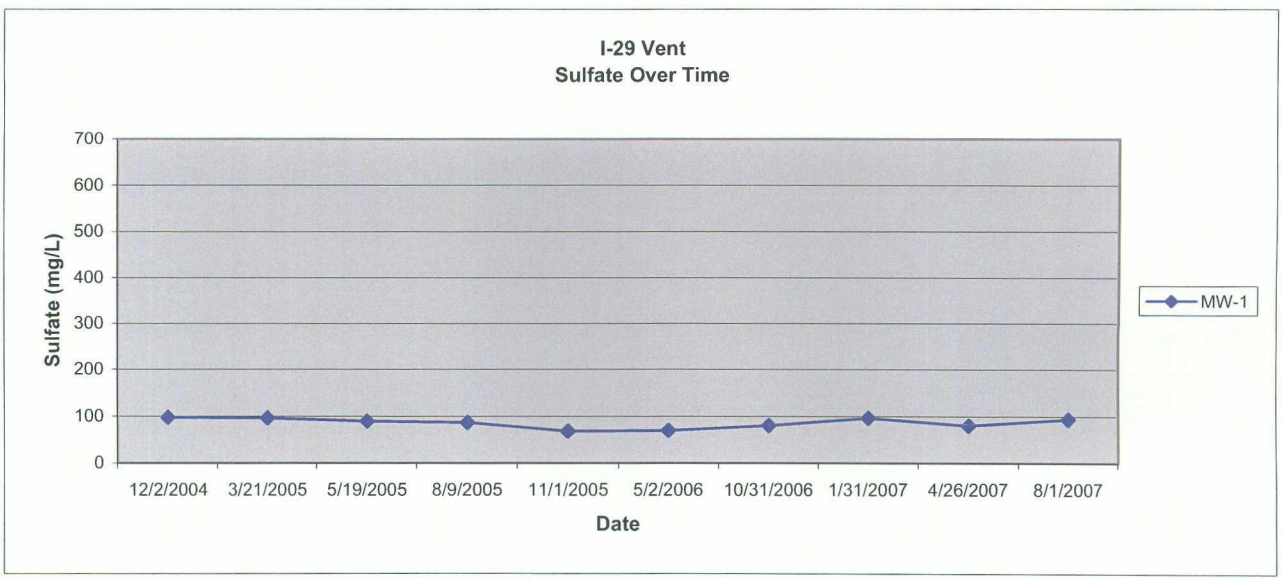
Table 1: chemistry over time

Well Name	*Date*	*DTW (ft)*	*Chloride (mg/L)*	*Sulfate (mg/L)*	*TDS (mg/L)*	*Benzene (mg/L)*	*Toluene (mg/L)*	*EthylBenzene (mg/L)*	*Total Xylenes (mg/L)*	*Comments*
MW-1		67.74	83.1	59.6	508	<0.001	<0.001	<0.001	<0.001	
MW-1	12/2/2004	68.12	103	97.7	521	<0.001	<0.001	<0.001	<0.001	red; silty
MW-1	3/21/2005	67.52	116	96.6	617	<0.001	<0.001	<0.001	<0.001	red; silty
MW-1	5/19/2005	67.44	104	89.7	647	<0.001	<0.001	<0.001	<0.001	
MW-1	8/9/2005	67.53	97.7	87.5	538	<0.001	<0.001	<0.001	<0.001	
MW-1	11/1/2005	67.45	82.7	68	600	<0.001	j[0.000346}	<0.001	j[0.000799]	
MW-1	5/2/2006	67.66	102	69.6	572	<0.001	<0.001	<0.001	<0.001	
MW-1	10/31/2006	67.92	100	80.3	454	<0.001	<0.001	<0.001	<0.001	No odor Clear with some sand
MW-1	1/31/2007	67.88	132	96.4	504	<0.001	<0.001	<0.001	<0.001	No
MW-1	4/26/2007	68	111	79.7	520	<0.001	<0.001	<0.001	<0.001	No Odor/ Clear with some sand
MW-1	8/1/2007	68.22	118	93.8	550	<0.001	<0.001	<0.001	<0.002	Clear No Odor Some Sand

R:\Annual Reports\2007\i-29 vent.xls







R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW, Suite F-142 Albuquerque, NM 87104 505-266-5004	Ground Water Chemistry	I-29 Vent
	Rice Operating Company 2007 Annual Report	1/24/2008

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs I-29 Vent

Project Number: None Given

Location: T18S R38E Sec.29 I- Lea County, NM

Lab Order Number: 7B01017

Report Date: 02/08/07

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7B01017-01	Water	01/31/07 11:25	02-01-2007 15:42

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B01017-01) Water									
Benzene	ND	0.00100	mg/L	1	EB70501	02/05/07	02/07/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.8 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*		*80-120*		"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B01017-01) Water									
Total Alkalinity	**178**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**132**	5.00	"	10	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**504**	10.0	"	1	EB70302	02/02/07	02/03/07	EPA 160.1	
Sulfate	**96.4**	5.00	"	10	EB70208	02/02/07	02/03/07	EPA 300.0	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B01017-01) Water									
Calcium	**62.5**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 6010B	
Magnesium	**17.6**	0.360	"	10	"	"	"	"	
Potassium	**1.79**	0.600	"	"	"	"	"	"	
Sodium	**52.8**	2.15	"	50	"	"	"	"	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70501 - EPA 5030C (GC)										
Blank (EB70501-BLK1)				Prepared: 02/05/07 Analyzed: 02/06/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*47.2*		*ug/l*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.0*		*"*	*40.0*		*87.5*	*80-120*			
LCS (EB70501-BS1)				Prepared: 02/05/07 Analyzed: 02/06/07						
Benzene	0.0405	0.00100	mg/L	0.0500		81.0	80-120			
Toluene	0.0420	0.00100	"	0.0500		84.0	80-120			
Ethylbenzene	0.0425	0.00100	"	0.0500		85.0	80-120			
Xylene (p/m)	0.0857	0.00100	"	0.100		85.7	80-120			
Xylene (o)	0.0414	0.00100	"	0.0500		82.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.3*		*ug/l*	*40.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.8*		*"*	*40.0*		*94.5*	*80-120*			
Calibration Check (EB70501-CCV1)				Prepared: 02/05/07 Analyzed: 02/07/07						
Benzene	42.8		ug/l	50.0		85.6	80-120			
Toluene	42.5		"	50.0		85.0	80-120			
Ethylbenzene	45.8		"	50.0		91.6	80-120			
Xylene (p/m)	81.2		"	100		81.2	80-120			
Xylene (o)	42.1		"	50.0		84.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.8*		*"*	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.7*		*"*	*40.0*		*99.2*	*80-120*			
Matrix Spike (EB70501-MS1)	**Source: 7B01002-01**			Prepared: 02/05/07 Analyzed: 02/07/07						
Benzene	0.0430	0.00100	mg/L	0.0500	ND	86.0	80-120			
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120			
Ethylbenzene	0.0474	0.00100	"	0.0500	ND	94.8	80-120			
Xylene (p/m)	0.0910	0.00100	"	0.100	ND	91.0	80-120			
Xylene (o)	0.0418	0.00100	"	0.0500	ND	83.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.3*		*ug/l*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.2*		*"*	*40.0*		*118*	*80-120*			

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70501 - EPA 5030C (GC)										
Matrix Spike Dup (EB70501-MSD1)	**Source: 7B01002-01**			Prepared: 02/05/07 Analyzed: 02/07/07						
Benzene	0.0401	0.00100	mg/L	0.0500	ND	80.2	80-120	6.98	20	
Toluene	0.0403	0.00100	"	0.0500	ND	80.6	80-120	10.4	20	
Ethylbenzene	0.0490	0.00100	"	0.0500	ND	98.0	80-120	3.32	20	
Xylene (p/m)	0.0873	0.00100	"	0.100	ND	87.3	80-120	4.15	20	
Xylene (o)	0.0430	0.00100	"	0.0500	ND	86.0	80-120	2.83	20	
Surrogate: a,a,a-Trifluorotoluene	*36.6*		*ug/l*	*40.0*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.7*		*"*	*40.0*		*112*	*80-120*			

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70208 - General Preparation (WetChem)										
Blank (EB70208-BLK1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	0.459	0.500	mg/L							B, J
Chloride	ND	0.500	"							
LCS (EB70208-BS1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	11.6	0.500	mg/L	10.0		116	80-120			
Chloride	10.7	0.500	"	10.0		107	80-120			
Calibration Check (EB70208-CCV1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	11.8		mg/L	10.0		118	80-120			
Chloride	10.5		"	10.0		105	80-120			
Duplicate (EB70208-DUP1)	**Source: 7B01017-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Chloride	127	5.00	mg/L		132			3.86	20	
Sulfate	93.0	5.00	"		96.4			3.59	20	
Duplicate (EB70208-DUP2)	**Source: 7B01020-02**			Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	2410	50.0	mg/L		2400			0.416	20	
Chloride	2220	50.0	"		2240			0.897	20	
Matrix Spike (EB70208-MS1)	**Source: 7B01017-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Chloride	240	5.00	mg/L	100	132	108	80-120			
Sulfate	204	5.00	"	100	96.4	108	80-120			
Matrix Spike (EB70208-MS2)	**Source: 7B01020-02**			Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	3500	50.0	mg/L	1000	2400	110	80-120			
Chloride	3330	50.0	"	1000	2240	109	80-120			

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70209 - General Preparation (WetChem)										
Blank (EB70209-BLK1)				Prepared & Analyzed: 02/02/07						
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EB70209-DUP1)	**Source: 7B01016-01**			Prepared & Analyzed: 02/02/07						
Total Alkalinity	310	2.00	mg/L		314			1.28	20	
Reference (EB70209-SRM1)				Prepared & Analyzed: 02/02/07						
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EB70302 - Filtration Preparation										
Blank (EB70302-BLK1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EB70302-DUP1)	**Source: 7B01016-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	1920	10.0	mg/L		1840			4.26	20	
Duplicate (EB70302-DUP2)	**Source: 7B01020-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	6280	10.0	mg/L		5700			9.68	20	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB70612 - 6010B/No Digestion										
Blank (EB70612-BLK1)				Prepared & Analyzed: 02/06/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EB70612-CCV1)				Prepared & Analyzed: 02/06/07						
Calcium	1.79		mg/L	2.00		89.5	85-115			
Magnesium	1.98		"	2.00		99.0	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.74		"	2.00		87.0	85-115			
Duplicate (EB70612-DUP1)	**Source: 7B01016-01**			Prepared & Analyzed: 02/06/07						
Calcium	172	4.05	mg/L		176			2.30	20	
Magnesium	111	1.80	"		109			1.82	20	
Potassium	17.0	0.600	"		16.8			1.18	20	
Sodium	306	4.30	"		305			0.327	20	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: _____ Date: 2/8/2007

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

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: Hobbs I-29 Vent

Project #:

Project Loc: T18S R38E Sec29 I ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 7B0101M

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (2) 40 ml glass vials	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	WP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72hrs	Standard TAT
01	Monitor Well #1			1/31/2007	11:25		3	X		2				1		GW					X	X					X			X				X

Special Instructions:
Please email to : kpope@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	2-1-07	12:00	James Johnson	2-1-07	12:01
Relinquished by: James Johnson	2-1-07	1542	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	02-01-07	1542

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep.?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Dr.

Date/ Time: 2-1-07 15:42

Lab ID # : 070201

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	4.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs I-29 Vent

Project Number: None Given

Location: T18S R38E Sec29 I ~ Lea County New Mexico

Lab Order Number: 7D26012

Report Date: 05/07/07

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D26012-01	Water	04/26/07 12:35	04-26-2007 16:25

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D26012-01) Water									
Benzene	ND	0.00100	mg/L	1	ED73007	04/30/07	05/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.6 %*		*80-120*		"	"	"	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D26012-01) Water									
Total Alkalinity	**180**	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
Chloride	**111**	5.00	"	10	EE70307	05/03/07	05/03/07	EPA 300.0	
Total Dissolved Solids	**520**	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
Sulfate	**79.7**	5.00	"	10	EE70307	05/03/07	05/03/07	EPA 300.0	

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Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D26012-01) Water									
Calcium	**110**	4.05	mg/L	50	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	**17.9**	0.360	"	10	"	"	"	"	
Potassium	**1.10**	0.600	"	"	"	"	"	"	
Sodium	**53.0**	2.15	"	50	"	"	"	"	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED73007 - EPA 5030C (GC)										
Blank (ED73007-BLK1)				Prepared & Analyzed: 04/30/07						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*51.7*		*ug/l*	*50.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.3*		*"*	*50.0*		*105*	*80-120*			
LCS (ED73007-BS1)				Prepared & Analyzed: 04/30/07						
Benzene	0.0564	0.00100	mg/L	0.0500		113	80-120			
Toluene	0.0571	0.00100	"	0.0500		114	80-120			
Ethylbenzene	0.0575	0.00100	"	0.0500		115	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100		106	80-120			
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.4*		*ug/l*	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.8*		*"*	*50.0*		*110*	*80-120*			
Calibration Check (ED73007-CCV1)				Prepared: 04/30/07 Analyzed: 05/01/07						
Benzene	0.0547		mg/L	0.0500		109	80-120			
Toluene	0.0555		"	0.0500		111	80-120			
Ethylbenzene	0.0550		"	0.0500		110	80-120			
Xylene (p/m)	0.102		"	0.100		102	80-120			
Xylene (o)	0.0566		"	0.0500		113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*53.8*		*ug/l*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.8*		*"*	*50.0*		*108*	*80-120*			
Matrix Spike (ED73007-MS1)	**Source: 7D26012-01**			Prepared: 04/30/07 Analyzed: 05/01/07						
Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120			
Toluene	0.0568	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0549	0.00100	"	0.0500	ND	110	80-120			
Xylene (p/m)	0.105	0.00100	"	0.100	ND	105	80-120			
Xylene (o)	0.0577	0.00100	"	0.0500	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*54.0*		*ug/l*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.6*		*"*	*50.0*		*107*	*80-120*			

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED73007 - EPA 5030C (GC)										
Matrix Spike Dup (ED73007-MSD1)	**Source: 7D26012-01**			Prepared: 04/30/07 Analyzed: 05/01/07						
Benzene	0.0542	0.00100	mg/L	0.0500	ND	108	80-120	4.52	20	
Toluene	0.0551	0.00100	"	0.0500	ND	110	80-120	3.57	20	
Ethylbenzene	0.0561	0.00100	"	0.0500	ND	112	80-120	1.80	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	2.90	20	
Xylene (o)	0.0557	0.00100	"	0.0500	ND	111	80-120	3.54	20	
Surrogate: a,a,a-Trifluorotoluene	*52.7*		*ug/l*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.8*		*"*	*50.0*		*106*	*80-120*			

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED73002 - General Preparation (WetChem)										
Blank (ED73002-BLK1)				Prepared & Analyzed: 04/30/07						
Total Alkalinity	ND	2.00	mg/L							
LCS (ED73002-BS1)				Prepared & Analyzed: 04/30/07						
Total Alkalinity	0.00	2.00	mg/L				85-115			
Bicarbonate Alkalinity	180	2.00	"	200		90.0	85-115			
Duplicate (ED73002-DUP1)	**Source: 7D26006-01**			Prepared & Analyzed: 04/30/07						
Total Alkalinity	214	2.00	mg/L		218			1.85	20	
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20	
Reference (ED73002-SRM1)				Prepared & Analyzed: 04/30/07						
Total Alkalinity	256		mg/L	250		102	90-110			
Batch EE70209 - General Preparation (WetChem)										
Blank (EE70209-BLK1)				Prepared: 04/27/07 Analyzed: 05/02/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EE70209-DUP1)	**Source: 7D26007-01**			Prepared: 04/27/07 Analyzed: 05/02/07						
Total Dissolved Solids	1500	10.0	mg/L		1470			2.02	20	
Duplicate (EE70209-DUP2)	**Source: 7D26009-01**			Prepared: 04/27/07 Analyzed: 05/02/07						
Total Dissolved Solids	712	10.0	mg/L		684			4.01	20	
Batch EE70307 - General Preparation (WetChem)										
Blank (EE70307-BLK1)				Prepared & Analyzed: 05/03/07						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

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

Project: Hobbs I-29 Vent
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE70307 - General Preparation (WetChem)										
LCS (EE70307-BS1)				Prepared & Analyzed: 05/03/07						
Chloride	9.62	0.500	mg/L	10.0		96.2	80-120			
Sulfate	10.0	0.500	"	10.0		100	80-120			
Calibration Check (EE70307-CCV1)				Prepared & Analyzed: 05/03/07						
Sulfate	11.6		mg/L	10.0		116	80-120			
Chloride	8.93		"	10.0		89.3	80-120			
Duplicate (EE70307-DUP1)	**Source: 7D26006-01**			Prepared & Analyzed: 05/03/07						
Sulfate	342	12.5	mg/L		339			0.881	20	
Chloride	941	50.0	"		917			2.58	20	
Duplicate (EE70307-DUP2)	**Source: 7D26010-01**			Prepared & Analyzed: 05/03/07						
Sulfate	74.1	5.00	mg/L		75.5			1.87	20	
Chloride	93.1	5.00	"		94.3			1.28	20	
Matrix Spike (EE70307-MS1)	**Source: 7D26006-01**			Prepared & Analyzed: 05/03/07						
Sulfate	728	12.5	mg/L	250	339	156	80-120			M1
Matrix Spike (EE70307-MS2)	**Source: 7D26010-01**			Prepared & Analyzed: 05/03/07						
Chloride	278	5.00	mg/L	100	94.3	184	80-120			M1
Sulfate	204	5.00	"	100	75.5	128	80-120			M1
Matrix Spike (EE70307-MS3)	**Source: 7D26006-01**			Prepared & Analyzed: 05/03/07						
Chloride	1800	50.0	mg/L	1000	917	88.3	80-120			

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Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED72704 - 6010B/No Digestion										
Blank (ED72704-BLK1)				Prepared & Analyzed: 04/27/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (ED72704-CCV1)				Prepared & Analyzed: 04/27/07						
Calcium	2.13		mg/L	2.00		106	85-115			
Magnesium	2.15		"	2.00		108	85-115			
Potassium	2.14		"	2.00		107	85-115			
Sodium	1.98		"	2.00		99.0	85-115			
Duplicate (ED72704-DUP1)	**Source: 7D23010-01**			Prepared & Analyzed: 04/27/07						
Calcium	44.1	0.810	mg/L		42.4			3.93	20	
Magnesium	43.0	0.360	"		42.4			1.41	20	
Potassium	22.7	0.600	"		22.1			2.68	20	
Sodium	41.9	0.430	"		40.8			2.66	20	

Rice Operating Co.	Project: Hobbs I-29 Vent	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: _____ Date: 5/7/2007

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

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: Hobbs I-29 Vent

Project #:

Project Loc: T18S R38E Sec29 I ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: TD26012

25960

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (2) 40 ml glass vials	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH 418.1	8015M	TPH TX 1005	TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			4/26/2007	12:35		3	X		2				1			GW					X	X					X			X				X

Special Instructions:

Please email to : kpope@riceswd.com matt@riceswd.com rozanne@valornet.com
jpurvis@riceswd.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	4-26-07	12:40	James Johnson	4-26-07	12:41
James Johnson	4-26-07	4:25	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Fox	4-26-07	4:25

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: ~ 1.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 4-26-07 4:25

Lab ID # : 70760h

Initials: CL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

Analytical Report 287161

for

Rice Operating Co.

Project Manager: Kristin Pope

Hobbs I-29 Vent

21-AUG-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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

21-AUG-07

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

Reference: XENCO Report No: **287161**
Hobbs I-29 Vent
Project Address:T18S R38E Sec29 I ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number287161. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report N287161 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 287161

Rice Operating Co., Hobbs, NM

Project Name: Hobbs I-29 Vent

Project Id:
Contact: Kristin Pope
Project Location: T18S R38E Sec29 I ~ Lea County New M

Date Received in Lab Aug-02-07 12:50 pm
Report Date: 21-AUG-07
Project Manager: Brent Barron, II

Analysis Requested					
	Lab Id:	287161-001			
	Field Id:	Monitor Well # 1			
	Depth:				
	Matrix:	WATER			
	Sampled:	Aug-01-07 13:05			
Alkalinity by EPA 310.1	*Extracted:*				
	Analyzed:	Aug-07-07 13:00			
	Units/RL:	mg/L	RL		
Alkalinity, Total (as CaCO3)		248	4.00		
BTEX by EPA 8021B	*Extracted:*	Aug-09-07 17:31			
	Analyzed:	Aug-13-07 19:02			
	Units/RL:	mg/L	RL		
Benzene		ND	0.0010		
Toluene		ND	0.0010		
Ethylbenzene		ND	0.0010		
m,p-Xylene		ND	0.0020		
o-Xylene		ND	0.0010		
Total Xylenes		ND			
Total BTEX		ND			
Metals per ICP by SW846 6010B	*Extracted:*				
	Analyzed:	Aug-03-07 14:39			
	Units/RL:	mg/L	RL		
Calcium		109	0.100		
Magnesium		15.4	0.010		
Potassium		1.69	0.500		
Sodium		37.7	0.500		
Residue, Filterable (TDS) by EPA 160.1	*Extracted:*				
	Analyzed:	Aug-06-07 16:20			
	Units/RL:	mg/L	RL		
Total dissolved solids		550	5.00		
Inorganic Anions by EPA 300	*Extracted:*				
	Analyzed:	Aug-17-07 11:47			
	Units/RL:	mg/L	RL		
Chloride		118	2.50		
Sulfate		93.8	2.50		

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Form 2 - Surrogate Recoveries

Project Name: Hobbs I-29 Vent

Work Order #: 287161 **Project ID:**

Lab Batch #: 702184 **Sample:** 287161-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0634	0.0500	127	80-120	**

Lab Batch #: 702184 **Sample:** 287161-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0437	0.0500	87	80-120	

Lab Batch #: 702184 **Sample:** 287161-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0420	0.0500	84	80-120	

Lab Batch #: 702184 **Sample:** 498102-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0459	0.0500	92	80-120	

Lab Batch #: 702184 **Sample:** 498102-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0429	0.0500	86	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Blank Spike Recovery

Project Name: Hobbs I-29 Vent

Work Order #: 287161 **Project ID:**

Lab Batch #: 701789 **Sample:** 701789-1-BKS **Matrix:** Water
Date Analyzed: 08/07/2007 **Date Prepared:** 08/07/2007 **Analyst:** WRU
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Alkalinity by EPA 310.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Alkalinity, Total (as CaCO3)	ND	200	194	97	80-120	

Lab Batch #: 702184 **Sample:** 498102-1-BKS **Matrix:** Water
Date Analyzed: 08/10/2007 **Date Prepared:** 08/09/2007 **Analyst:** CELKEE
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.0500	0.0495	99	70-125	
Toluene	ND	0.0500	0.0510	102	70-125	
Ethylbenzene	ND	0.0500	0.0539	108	71-129	
m,p-Xylene	ND	0.1000	0.0952	95	70-131	
o-Xylene	ND	0.0500	0.0514	103	71-133	

Lab Batch #: 702542 **Sample:** 702542-1-BKS **Matrix:** Water
Date Analyzed: 08/17/2007 **Date Prepared:** 08/17/2007 **Analyst:** MAB
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	5.00	4.93	99	90-110	
Sulfate	ND	5.00	5.34	107	90-110	

Lab Batch #: 701571 **Sample:** 701571-1-BKS **Matrix:** Water
Date Analyzed: 08/03/2007 **Date Prepared:** 08/03/2007 **Analyst:** LATCOR
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Metals per ICP by SW846 6010B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Calcium	ND	2.00	1.83	92	75-125	
Magnesium	ND	2.00	2.08	104	75-125	
Potassium	ND	2.00	2.28	114	75-125	
Sodium	ND	2.00	1.94	97	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS / MSD Recoveries

Project Name: Hobbs I-29 Vent

Work Order # 287161 **Project ID:**

Lab Batch ID: 702184 **QC- Sample ID:** 287161-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 08/13/2007 **Date Prepared:** 08/09/2007 **Analyst:** CELKEE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.0500	0.0453	91	0.0500	0.0463	93	2	70-125	25	
Toluene	ND	0.0500	0.0468	94	0.0500	0.0483	97	3	70-125	25	
Ethylbenzene	ND	0.0500	0.0505	101	0.0500	0.0513	103	2	71-129	25	
m,p-Xylene	ND	0.1000	0.0909	91	0.1000	0.0921	92	1	70-131	25	
o-Xylene	ND	0.0500	0.0482	96	0.0500	0.0485	97	1	71-133	25	

Lab Batch ID: 702542 **QC- Sample ID:** 287161-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 08/17/2007 **Date Prepared:** 08/17/2007 **Analyst:** MAB

Reporting Units: mg/L

Inorganic Anions by EPA 300 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	118	25.0	145	108	25.0	145	108	0	90-110	20	
Sulfate	93.8	25.0	122	113	25.0	130	145	25	90-110	20	XF

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

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

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

Sample Duplicate Recovery

Project Name: Hobbs I-29 Vent

Work Order #: 287161

Lab Batch #: 701789 **Project ID:**
Date Analyzed: 08/07/2007 **Date Prepared:** 08/07/2007 **Analyst:** WRU
QC- Sample ID: 287122-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Alkalinity by EPA 310.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	216	216	0	20	

Lab Batch #: 702542
Date Analyzed: 08/17/2007 **Date Prepared:** 08/17/2007 **Analyst:** MAB
QC- Sample ID: 287161-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	118	120	2	20	
Sulfate	93.8	95.2	1	20	

Lab Batch #: 701571
Date Analyzed: 08/03/2007 **Date Prepared:** 08/03/2007 **Analyst:** LATCOR
QC- Sample ID: 287179-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals per ICP by SW846 6010B	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	301	285	5	25	
Magnesium	120	134	11	25	
Potassium	20.1	15.8	24	25	
Sodium	284	265	7	25	

Lab Batch #: 701790
Date Analyzed: 08/06/2007 **Date Prepared:** 08/06/2007 **Analyst:** IRO
QC- Sample ID: 287122-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	754	784	4	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Hobbs I-29 Vent

Work Order #: 287161

Lab Batch #: 701790 **Project ID:**

Date Analyzed: 08/06/2007 **Date Prepared:** 08/06/2007 **Analyst:** IRO

QC- Sample ID: 287348-002 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	6250	6290	1	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: Hobbs I-29 Vent

Project #:

Project Loc: T18S R38E Sec29 I ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 28761

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl (2) 40 ml glass vials	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se (TCLP)	Volatiles	Semivolatiles	BTEX 8021B/5030 (TOTAL)	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			8/1/2007	13:05		3	X		2				1		GW			X	X					X			X				X

Special Instructions:
Please email to : kpope@riceswd.com rozanne@valornet.com

	Date	Time		Date	Time
Relinquished by: Rozanne Johnson	8/2/07	9:15	Received by: Raelyn Gardner	8/2/07	9:16
Relinquished by: Raelyn Gardner	8/2/07	12:50	Received by:		
Relinquished by:			Received by ELOT: Andrea Law	8-2-07	12:56

Laboratory Comments:

Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 8·2·07 12:50

Lab ID #: 287161

Initials: gl

Sample Receipt Checklist

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

Variance Documentation

Contact _____ Contacted by: _____ Date/ Time: _____

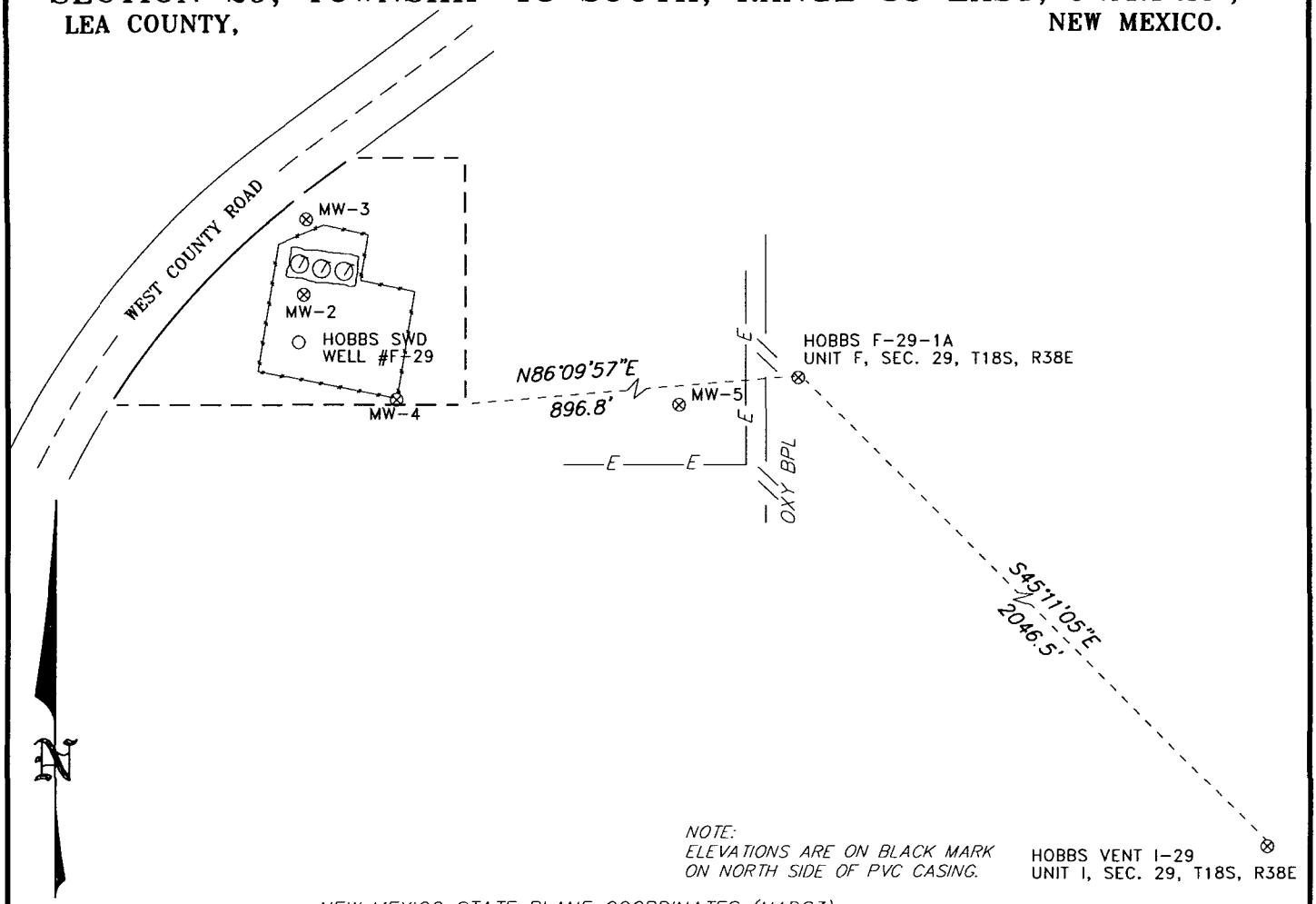
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
MW-2	627819.025	898021.191	N 32°43'14.0"	W 103°10'24.9"	3645.71'
MW-3	627908.779	898025.082	N 32°43'14.9"	W 103°10'24.8"	3645.76'
MW-4	627693.822	898134.408	N 32°43'12.7"	W 103°10'23.6"	3645.76'
MW-5	627687.313	898477.159	N 32°43'12.7"	W 103°10'19.5"	3646.74' PVC 3644.37'-GRND
HOBBS F-29-1A MARK ON NORTH SIDE OF NORTH 2" PVC	627753.789	899029.184	N 32°43'13.2"	W 103°10'13.1"	3648.89' 3645.5'-GRND
HOBBS F-29-1A MARK ON NORTH SIDE OF SOUTH 2" PVC	627753.579	899029.160	N 32°43'13.2"	W 103°10'13.1"	3648.76' 3645.5'-GRND
HOBBS VENT I-29 MARK ON NORTH SIDE OF 2" PVC	626311.386	900480.915	N 32°42'58.8"	W 103°09'56.3"	3650.65' 3647.6'-GRND

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES — No. 7977
TEXAS L.L.S. — No. 5074

200 0 200 400 FEET

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

RICE OPERATING COMPANY

REF: MONITOR WELLS

MONITOR WELLS LOCATED IN
SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: RICE	Drawn By: K. GOAD		
Date: 02-11-2005	Disk: KJG CD#4 - RICEB.DWG	Survey Date: VARIES	Sheet 1 of 1 Sheets