1R-415

REPORTS

DATE:

10-21-08

R. T. HICKS CONSULTANTS, LTD.

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

October 21, 2008

2008 OCT 23 PM 3 29

Edward J. Hansen NMOCD 1220 South St. Francis Drive Santa Fe, New Mexico 87505 VIA EMAIL

RE:

Request for Final Closure, Lovington Abo 1G

Unit G, Section 1, 17S, 36 E NMOCD Case # 1R 0415

Dear Mr. Hansen:

As you may recall, we submitted a full Closure Report for this site in April of this year. This letter presents recent work at the above-referenced site and requests formal closure of the Rice Operating Company (ROC) file associated with it.

Per our meeting with NMOCD, the City of Lovington, and ROC earlier this year; ROC completed a second monitoring well (MW-2) to the northwest of MW-1 and sampled ground water. MW-2 was drilled on 7/18/08 about 450 feet northwest of MW-1. Plate 1 shows both wells on a recent aerial photograph and Plate 2 shows the water table elevation map of the area using 2006 USGS ground water data. Appendix A presents the lithologic log and completion diagram for MW-2. After MW-2 was completed and developed following standard industry practices, ground water from both wells were sampled on 7/28/08; the results of laboratory analysis found BTEX below detection limits in both wells. Chloride and TDS results from ground water sampling at the site in 2008 are summarized in Table 1. The laboratory results for 2008 ground water sampling are included in Appendix B.

Table 1. Abo 1G Ground Water Sampling, 2008

Well Name	Date	Chloride	TDS
VVeil Ivallie	Date	(mg/l	_)
	2/1/2008	228	868
MW-1	4/21/2008	328	1,050
	7/28/2008	204	810
MW-2	7/28/2008	364	1,100

This ground water data shows an up-gradient source of chloride near the Lovington Abo1G. This verifies previously presented conclusions that the release at Lovington Abo 1G is not the source of ground water impact observed in MW-1 at the site.

October 21, 2008 Page 2

We respectfully request NMOCD approve closure of this site in writing. If you have any questions, please do not hesitate to contact me at our office, or Hack Conder at the ROC office.

Sincerely,

R.T. Hicks Consultants, Ltd.

Katie Lee

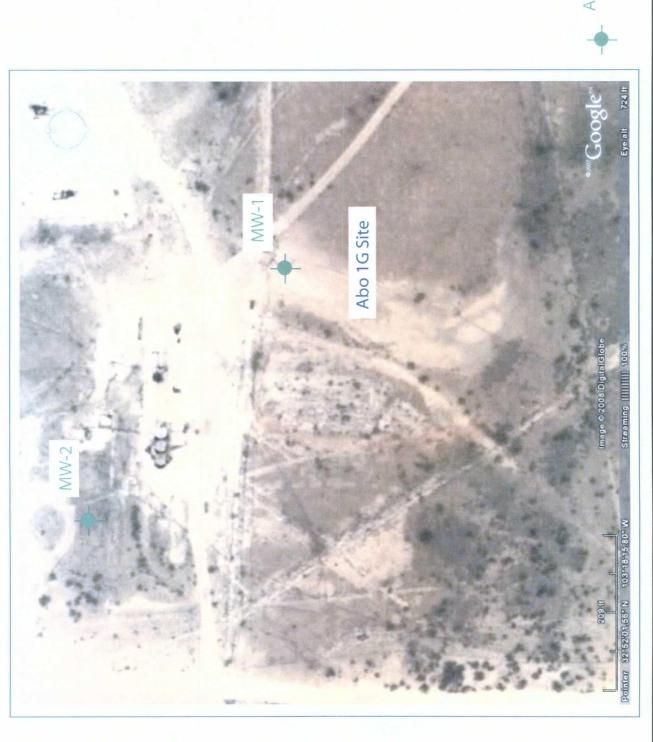
Project Scientist

Copy: City of Lovington

NMOCD Office, Hobbs NM Rice Operation Company



R. T. Hicks Consultants, Ltd. 901 Rio Grande Blvd. Suite F-142 Albuquerque, NM 87501



Approximate MW Location

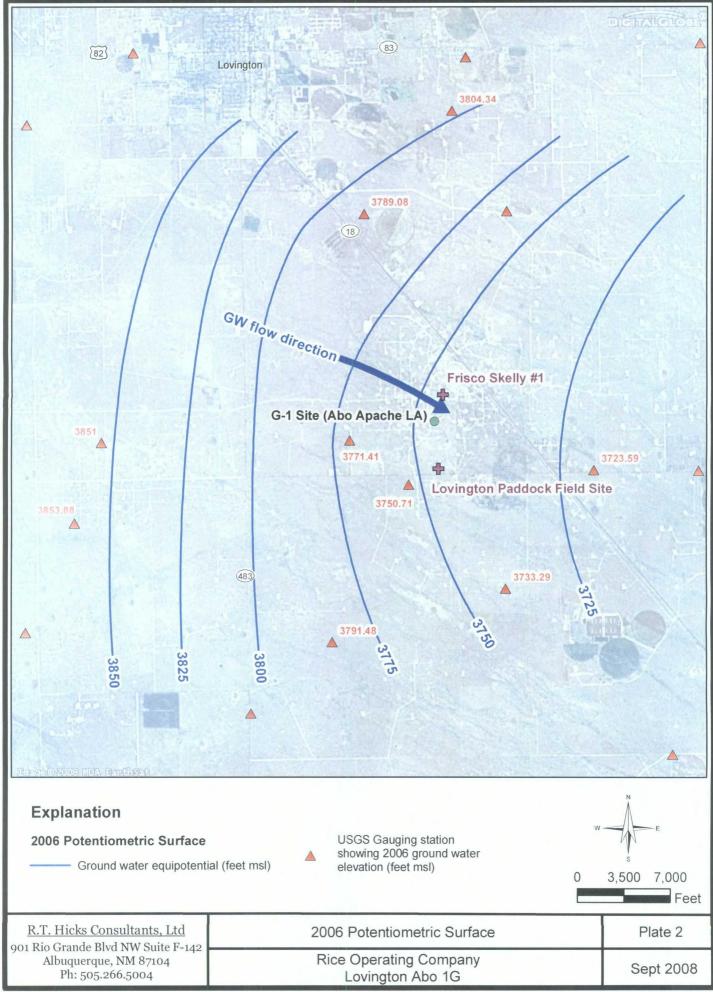
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HICKS	
R.T.	

901 Ro Grande Bvd. NW Suite F-142 Albuquerque, NM 87104 505-266.5004 Fax: 505-266.0745

Rice Operating Company: Lovington Abo 1G Recent Aerial Photo Noting Monitoring Wells

Plate 1

September 2008





Lithologic Log & Monitoring Well Completion

R. T. Hicks Consultants, Ltd. 901 Rio Grande Blvd. Suite F-142

Albuquerque, NM 87501

R T Hicks Consultants Ltd

LITHOLOGIC LOG (MONITORING WELL)

MONITOR WELL NO.: MW-2

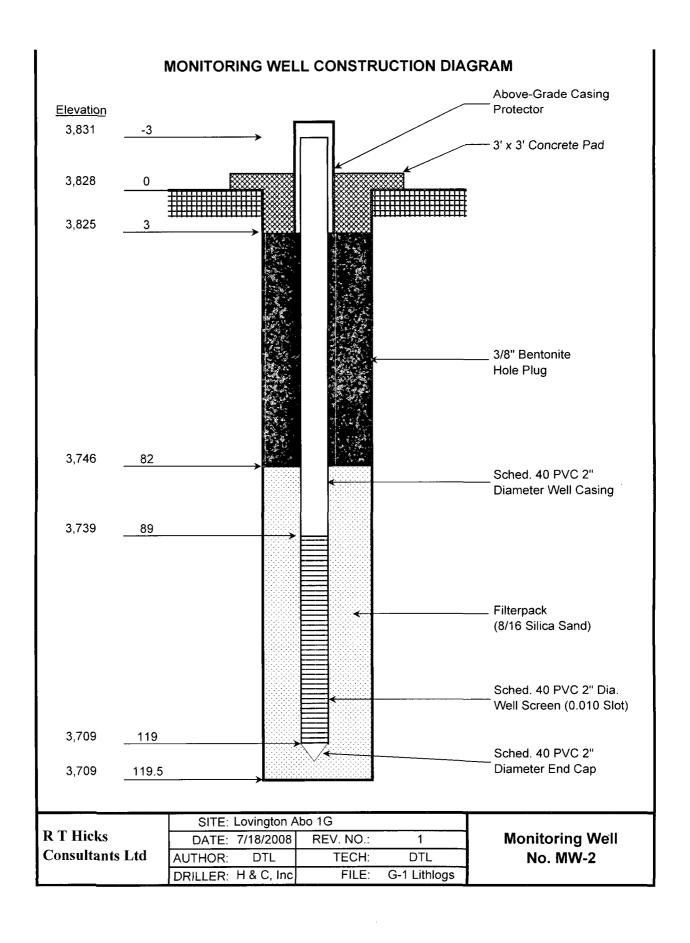
TOTAL DEPTH: 119.5 Ft
CLIENT: Rice Operating Company
COUNTY: Lea County

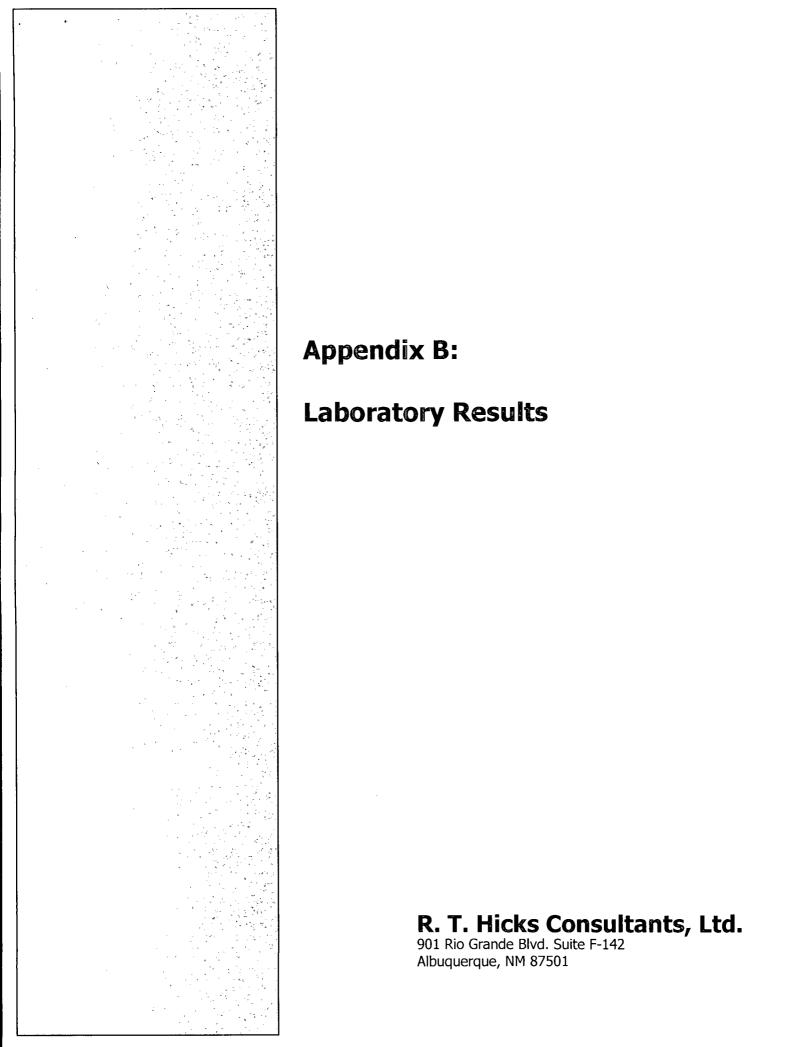
P O Box 7624 Midland, TX 79708 SURFACE ELEVATION: CONTRACTOR: DRILLING METHOD: INSTALLATION DRIVED IN THE PROCESS OF THE PROCES

STATE: New Mexico
LOCATION: T-17-S, R-36-E, Sec. 1 (G)
PIELD REP.: Dale Littlejohn

(,	528-38	78		WELL	PLACE	MENT: Approx. 450 feet NW of MW-1 FILE NAME: \Abo Apache\Lithlogs 7-08
					COMN	MENTS: Lat. 32° 52' 4.6" North, Long. 103° 10' 17.5" West
	<u> </u>	Lithology	Depth	Sam		LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING,
				Туре	Ci (iia)	CONSOL., DIST. DEATURES SILTY CLAY Dark brown (top soil). Well spud in grassy area
1986	#####	<u></u>				CALICHE AND SILT Gray to brown, with some fine grain sand.
			5	i		
						SAND Light reddish brown, very fine grain, with some thin bedded caliche beds below 12 feet.
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			15	-		
						CALICHE Gray to white, moderately hard, massive.
		<u> </u>				
		1	20	-		
						SAND Light brown, very fine grain, well sorted, angular, thin bedded caliche at 32 feet.
		·.]		
				-		
			25	1		
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						SAND Light grayish brown to tan, very fine grain, well sorted, angular, with thin bedded white
			35	.		caliche.
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	Σ	1		-		SAND Light reddish brown, very fine grain, well sorted, angular, with thin bedded caliche.
	2.			j		
			50			
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				1 !		
				-		
			55	1		
		* * * ×				QUARTZITE Dark reddish brown, fine crystilline, very hard, with some granular cemented
		× × ×		-		grayish brown, very fine grain sandstone.
						SAND (unconsolidated) Light reddish brown, very fine grain, well sorted, angular, with no
			60]		caliche or quartzite.
				-		
p:::::::::::::::::::::::::::::::::::::			 	1		
	133333	1	1			
		1	65	1 1		

Consultants Ltd Suprace ELEVATION: 3628 Feet IMSL; CONTRACTOR: Harrison & Cooper Inc. CONTRACTOR: Harrison & Cooper Inc. DRILLING METHOD. Alr-Rotary INSTALLATION DATE: 7/1808 WELL PLACEMENT: Approx. 450 feet INW of MW-1 STATE. New Mission LOCATION: T-17-8, R-96-E-96e. 1 (G) PIEU REP. Date Littlegion FILE NAME. Who Apachel Littlegs 7-08 SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with mud (water and polymer) at 90 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel 20 or 3 or 3 or 3 or 3 or 3 or 3 or 3 or		LITHOLOGIC LOG (MONITORING WELL)
Consultants Ltd SURFACE ELEVATION: 3828 Feet (MSL) CONTRACTOR: Harrison & Cooper Inc. DRILLING METHOD. Air-Rotary INSTALLATION DATE: 778.08 MIGHand, Tx. 79708 MELL PLACEMENT: Approx 450 feet NW of MW-1 COMMENTS: Lat 32* 52* 4.6 North, Long 103* 10* 17.5 West SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with muc (water and polymer) at 80 feet. SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with muc (water and polymer) at 80 feet. SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with muc (water and polymer) at 80 feet. SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with muc (water and polymer) at 118 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel zone at 118 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel 20 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel 20 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel 20 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel 20 feet.	R T Hicks	MONITOR WELL NO.: MW-2 TOTAL DEPTH: 119.5 Ft
SURFACE ELEVATION: 3828 Feet (MSL) CONTRACTOR Harrison & Cooper, Inc. DRILLING METHOD. AR-Rotary NISTALATION DATE: 7178/8 WELL PLACEMENT: Approx. 450 feet NW of MW-1 COMMENTS: Lat 32° 52′ 4 6° North, Long 103° 10′ 17.5° West COMMENTS: Lat 32° 52′ 4 6° North, Long 103° 10′ 17.5° West SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with mud (water and polymer) at 80 feet. SAND Brown, fine grain, well sorted, angular, with thin Clay layer at 113 feet. Possible gravel zone at 118 feet. SAND Brown, fine grain, well sorted, angular, with thin Clay layer at 113 feet. Possible gravel zone at 118 feet.	Consultants Ltd	SITE ID: Lovington Abo 1G CLIENT: Rice Operating Company
P D Box 7524 Midsland, Tx 7978	S S	SURFACE ELEVATION: 3828 Feet (MSL) COUNTY: Lea County
Middland, TX, 79708 WELL PLACEMENT: Approx. 450 feet NW of MW-1 (432) \$28-3878 WELL PLACEMENT: Approx. 450 feet NW of MW-1 (ADA Apache Little)of the Comment of the Comment		CONTRACTOR: Harrison & Cooper, Inc. STATE: New Mexico
WELL PLACEMENT: Approx 450 feet NW of MW-1 COMMENTS: Lat 32° 52° 4.6° North, Long 103° 10′ 17.5° Wess 70 75 80 SAND Light reddish brown, very fine grain, well sorted, angular. Began crilling with mud (water and polymer) at 80 feet. 85 85 85 87 80 SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel zone at 118 feet.		DRILLING METHOD: Air-Rotary LOCATION: T-17-S, R-36-E, Sec. 1 (G)
COMMENTS: Lat 32° 52′ 4.6° North, Long 103° 10′ 17.5° West 70 75 80 SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with mud (water and polymer) at 80 feet. 85 95 SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel zone at 118 feet. 96 100 100 105 105 105 105 105 10	•	WELL PLACEMENT: Approx 450 feet NW of MW.1 FILE NAME: VAho Apachell ithlogs 7-08
SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with mud (water and polymer) at 80 feet. 85 90 90 SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel zone at 118 feet. 100 105 105 105 105 105	(432) 526-38/8	COMMENTS: Lat. 32° 52' 4.6" North, Long. 103° 10' 17.5" West
TD = 119.5 Feet	91.6 SAND PACK 80. 80. 80. 81.6 SAND PACK 100. 100. 100. 1115.	SAND Light reddish brown, very fine grain, well sorted, angular. Began drilling with mud (water and polymer) at 80 feet. SAND Brown, fine grain, well sorted, angular, with thin clay layer at 113 feet. Possible gravel







ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 07/29/08

Reporting Date: 08/04/08

Project Number: NOT GIVEN

Project Name: ABO APACHE LEAK

Project Location: T19S-R36E-SEC1 G ~ LEA CO., NM

Sampling Date: 07/28/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: AB

			ETHYL	TOTAL
LAB NUMBER SAMPLE ID	BENZENE	TOLUENE	BENZENE	XYLENES
	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS D	ATE	08/03/08	08/03/08	08/03/08	08/03/08
H15257-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H15257-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
Quality Cont	rol	0.053	0.045	0.052	0.151
True Value C	ŠĆ	0.050	0.050	0.050	0.150
% Recovery		106	89.5	103	101
Relative Per	cent Difference	4.2	5.8	0.1	1.8

METHOD: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR STREET HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 07/29/08 Reporting Date: 08/04/08

Project Number: NOT GIVEN
Project Name: ABO APACHE LEAK

Project Location: T19S R36E SEC1 G ~ LEA COUNTY, NM

Sampling Date: 07/28/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: HM/KS/TR

		Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBE	ER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS D	DATE:	08/01/08	08/01/08	08/01/08	07/31/08	07/30/08	07/30/08
H15257-1	MONITOR WELL #1	181	68.9	13.6	3.4	1,130	228
H15257-2	MONITOR WELL #2	176	117	30.1	4.3	1,540	188
	annamana sa			,		ara kanada ka	**************************************
Quality Cont	rol	NR	52.1	51.0	2.86	1,425	NR
True Value (QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	agentification (Control of the Control of the Contr	NR	104	102	95.4	101	NR
\$	cent Difference	NR	< 0.1	< 0.1	0.7	0.6	NR
METHODS:	The state of the s	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO ₄	CO ₃	HCO ₃	ρН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS [DATE:	07/31/08	07/31/08	07/30/08	07/30/08	07/30/08	07/30/08
H15257-1	MONITOR WELL #1	204	106	0	278	7.20	. 810
H15257-2	MONITOR WELL #2	364	99	0	229	7.28	1,100
	ngeneral and a second of the s					e de la companya del companya de la companya del companya de la co	
Quality Cont	trol	500	43.5	NR	1000	7.04	NR
True Value (QC	500	40.0	NR	1000	7.00	NR
% Recovery	,	100	109	NR	100	100	NR
\$	cent Difference	2.0	2.0	NR	< 0.1	0.4	NR
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Chemist Chemist

08-04-08

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST	(Circle or Specify Method No.)				T		9 6 ₁	puə 4 əş	3) 3) 5) 6) 6) 6)	2003 2003 2016 2016	1X10 224 524 524 524 524 524 524 524	2005 \ As B As B As B As B As B As B As B As B	18/600 TR/608 TR	MTBE 802 HPH 418.1 HPH 418.1 HPH 418.1 HPH 418.1 HPH 418.1 HPH 8270 HPH 827	11:10 X X X X	09:6					us ves no	Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to: hconder@riceswd.com	lweinheimer@riceswd.com rozanne@valornet.com
	inal Laboratories, Inc.	Company:	NOE Operating Company Address: Address:	Hother Man Man	Dhana#:	7575) 393-9174 (575)		(575)397-1471		£.	Sampler Signerure: Rozanne Johnson (575)631-9310	Mexico // KM rozanne@valornet.com	MATRIX PRESERVATIVE SAMPLING	Sè	* HDPP	DATE (2007 NONE NONE NONE HUG3 SOIF SOIF WATER # CONTA	3 X 28 7-28	1 7.28					Date: III	Jane Jameer (2008)	Received By (Laboratory Staff) Date: Time:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample Condition Cool Intect Yes Yes (Initials)
104 Free Martened - Hobbs Mass	Mexico 88240 Tel (575) 393-2326	Fax (578) 393-2476 Company Name:	RICE Operating Company	Figer manager.	3	Address: (Street, City, Ztp) 122 W Today Cheet, Making Now Manifestory 2020	Phone #:	(575) 393-9174		Abo Apache Leak	1	T19S-R36E-Sec1 G ~ Lea County - New Mexico			LAB # FIELD CODE	(LAB USE)	1/5257- Monitor Well #1	Monitor Well #2					Date: Time	Rozanne Johnson 72408	Relinquished by: Date: Time:	12 180 85 Crown of 1 00 14	red By (Circle O



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR ST.

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 04/24/08

Reporting Date: 04/28/08

Project Owner: NOT GIVEN

Project Name: ABO APACHE LEAK

Project Location: T19S-R36E-SEC1 G ~ LEA CO., NM

BO APACHE LEAK

Sampling Date: 04/21/08

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: AB

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS D	ATE	04/25/08	04/25/08	04/25/08	04/25/08
H14709-1	MONITOR WELL #1	0.009	<0.001	<0.001	<0.003
Quality Contr	rol	0.097	0.097	0.095	0.296
True Value C	QC	0.100	0.100	0.100	0.300
% Recovery		97.0	96.8	95.4	98.6
Relative Perd	cent Difference	0.5	1.4	0.8	0.7

METHOD: EPA SW-846 8021B

Chemist



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 04/24/08 Reporting Date: 04/28/08

Project Number: NOT GIVEN

Project Name: ABO APACHE LEAK

Project Location: T19S-R36E-SEC1 G~LEA COUNTY, NM

Sampling Date: 04/21/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: HM/KS

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	04/28/08	04/28/08	04/28/08	04/28/08	04/25/08	04/25/08
H14709-1 MONITOR WELL #1	134	156	34	3.90	1,600	248
Quality Control	NR	51.3	52.5	4.56	1,411	NR
True Value QC	NR	50.0	50.0	4.00	1,413	NR
% Recovery	NR	103	105	114	99.8	NR NR
Relative Percent Difference	NR	1.4	4.9	13.1	1.4	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI	SO ₄	CO ₃	HCO ₃	pН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	04/25/08	04/28/08	04/25/08	04/25/08	04/25/08	04/25/08
H14709-1 MONITOR WELL #1	328	112	0	302	6.76	1,050
Quality Control	490	26.0	NR	976	6.98	NR
True Value QC	500	25.0	NR	1000		NR
% Recovery	98.0	104	NR	97.6	99.7	NR
Relative Percent Difference	2.0	13.6	NR	2.4	1.0	NR
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Rust Superbo

Page 1 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST	HCO3)								8a Cdd 624 8270C/ 8, K) 08 8, K)	aA pA esimpos des des ASEOBA ASEOBA ASEOBA BOS BOS BOS BOS BOS BOS BOS BOS BOS BOS	Aletals Aletals Aletals Aletals Aletals Aletals Aletals Semi Volatilis Semi Aletals	TCLP / TCLP / TCLP E TCLP F RCI GC/MS GC/MS GC/MS PCB's PCB's PCB's PCB's PCB's PCB's PCB's Total L	× × ×							Its Yes No	Yes No Additional Fax Number:		Email Results to: kpope@riceswd.com	weinheimer@riceswd com	rozanne(@vaiornet.com												
							(•	C38) pe	pua	Exte	900	OLXT/	Z09/	80218	MTBE X3T8 PH 4	×							Phone Results	Fax Results	REMARKS:	i iii	**********											
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	• `		Company (Street, City, Zip)				27.14	(575)397-1471					Rozanne Johnson (575)631-9310	rozanne@valornet.com	SAMPLING		(2008)	3TAG	-								10	Ì	Q		(Y)								
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	1200E	Company.	Address:	122 W Taylor Street ~	Phone#	(575) 393-9174			\setminus		Sample		MATA			AIA	┢	 - 1		-			 			(Laboratory	7		N Kes	-									
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"	콩						Fax #	(575)397-1471				xico		dwo	(C) 10	dහ(ව)	ပ							Received by	<u> </u>	Received By	1/1	Sample Condition											
sbs, New	Mexico 88240° (arring 1123) Tel (475) 592-2366 Fax (575) 593-2476	Company Name: DICE Operating Company	Project Manager	Kristin Farris-Pope, Project Scientist	Address: (Street City Zip)	Taylor		(575) 393-9174	Project Name:	Abo Apache Leak		T19S-R36E-Sec1 G ~ Lea County - New Mexico		LAB#	FIELD CODE	ONLY	H/47C9-/. Monitor Well #1							ne:	Rozanne Danson 4-24-2008 14:05	Date: Time:	ally Wat The 424 of 16:50	Selivered By: (Grole One)	Sampler - UPS - Bus - Other										



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

Receiving Date: 02/01/08

Reporting Date: 02/04/08

Project Owner: NOT GIVEN

Project Name: ABO APACHE LEAK

Project Location: T19S-R36E-SEC1 G ~ LEA CO., NM

Sampling Date: 02/01/08

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: AB

					ETHYL	TOTAL
		BE	NZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS DATE		02/04/08	02/04/08	02/04/08	02/04/08
H14193-1 MONI	TOR WELL #1	0.003	<0.001	<0.001	<0.003
Quality Control		0.095	0.085	0.088	0.256
True Value QC		0.100	0.100	0.100	0.200
% Recovery		95.4	85.1	88.2	85.4
Relative Percent Differ	ence	3.0	1.3	0.8	2.3

METHOD: EPA SW-846 8021B



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 02/01/08
Reporting Date: 02/06/08
Project Number: NOT GIVEN

METHODS:

METHODS:

Project Name: ABO APACHE LEAK

Project Location: T19S-R36E-SEC1 G~LEA COUNTY, NM

Sampling Date: 02/01/08 Sample Type: WATER

Sample Condition: COOL & INTACT

120.1

150.1

310.1

160.1

Sample Received By: ML Analyzed By: HM/KS

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	02/05/08	02/05/08	02/05/08	02/04/08	02/04/08	02/04/08
H14193-1 MONITOR WELL #1	82.7	153	17.7	3.99	1,270	240
						
Quality Control	NR	49.2	51.6	3.16	1,420	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	98.5	103	103	100	NR
Relative Percent Difference	NR	< 0.1	1.5	3.2	0.6	NR

SM3500-Ca-D 3500-Mg E

	CI	SO ₄	CO ₃	HCO ₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	02/04/08	02/05/08	02/04/08	02/04/08	02/04/08	02/04/08
H14193-1 MONITOR WELL #1	228	75.7	0	293	7.19	868
Quality Control	500	23.0	NR	1000	7.04	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	91.8	NR	100	100	NR
Relative Percent Difference	< 0.1	3.7	NR	< 0.1	0.1	NR

375.4

SM4500-CI-B

the S. Moreno Chemist

07-06-08

310.1

8049

Date

310.1

9

Hansen, Edward J., EMNRD

From: L. Peter Galusky, Jr. P.E. [lpg@texerra.com]

Sent: Tuesday, October 14, 2008 11:58 AM

To: Hansen, Edward J., EMNRD

Cc: Lara Weinheimer

Subject: Rice Operating Company - OCD 1R488 - ABO F-31 SWD ICP investigation - Notice of planned field

activities

Edward,

Please be advised that we plan to conduct the field work described in the respective NMOCD approved Investigation and Characterization Plan for the above-referenced site over Monday, October 20th through Tuesday, October 21st. If you are in the neighborhood during this time you are most welcomed to join us.

Thank you for your consideration.

Sincerely,

Pete G.

L. Peter Galusky, Jr. Ph.D. P.G.

Principal Texerra

E-mail: lpg@texerra.com
Cell: 432-634-9257

This inbound email has been scanned by the MessageLabs Email Security System.

Hansen, Edward J., EMNRD

TR415

From:

Dale Littlejohn [dale@rthicksconsult.com]

Sent:

Thursday, July 10, 2008 2:10 PM

To:

Williams, Chris, EMNRD; Hansen, Edward J., EMNRD

Cc:

Dave (R T Hicks); Lara Weinheimer; Randy Hicks (Randy Hicks)

Subject:

Installation of MW-2 Rice Operation Abo G-1

Attachments: ROC Abo 1G Scope and Driving Directions.pdf

Please accept this email as notice of our intentions to install a monitoring well at the Rice Operating Abo 1G site beginning at 8:00 AM on Friday July 18, 2008.

A scope of work for the site with driving directions is provided on the attached PDF file. We anticipate that the activities will be completed in one day. Please call me if you have any guestions or require additional information.

Thanks,

Dale T Littlejohn, PG R T Hicks Consultants Ltd (432) 528-3878 (office) (432) 689-4578 (fax)

This inbound email has been scanned by the MessageLabs Email Security System.

RICE Operating Company

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

Scope of Work

Date of work: Friday, July 18th

Purpose: Monitor well installation

Contractor conducting work: Harrison & Cooper, Inc.

Site Name: Abo 1G

Legal Description: unit 'G', Sec. 1, T17S, R36E

Install one monitor well with 30 feet of screen. We will need to mud it in, I believe, since it was necessary on the previous well.

Depth to ground water is expected to be at 96 ft bgs.

Consultant Dale Littlejohn of R.T. Hicks (432) 528-3878 will be present for this work.

Driving Directions: North of Hobbs on Hwy 18, head north toward Lovington. At mile marker 66, proceed another 0.5 miles. Turn left onto the lease road and travel west 0.8 miles. Turn left and travel south 0.3 miles. Turn left again and go <0.1 miles. The flagged site is on your left between the two battery locations.







Abo G-1 18415