1R - 427-177

GENERAL CORRESPONDENCE

YEAR(S):
2007

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1. Article Addressed to:

Kristin Farris Pope
Rice Operating Company
122 West Taylor
Hobbs, NM 88240

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X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) MARCIA HARRINGTON | C. Date of Delivery 3/29/07

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NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO: 3929 4432

March 26, 2007

Kristin Farris Pope
Rice Operating Company
122 West Taylor
Hobbs, New Mexico 88240

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN

Dear Ms. Pope:

The New Mexico Oil Conservation Division (OCD) has determined after reviewing your Notification of Groundwater Impact for each of the following six sites:

1) Rice EME Sarah Phillips EOL
Unit K, Section 33, T19S, R37E
Lea County, New Mexico
OCD Case #1R0427-17

2) Rice EME A-2
Unit A, Section 2, T20S, R36E
Lea County, New Mexico
OCD Case #1R0427-62

3) Rice EME Jct. A-2-1
Unit A, Section 2, T20S, R36E
Lea County, New Mexico
OCD Case #1R0427-177

4) Rice BD K-4
Unit K, Section 4, T18S, R38E
Lea County, New Mexico
OCD Case #1R0459

5) Rice EME C-16 (1)
Unit C, Section 16, T20S, R37E
Lea County, New Mexico
OCD Case #1R0476

6) Rice EME C-16 (2)
Unit C, Section 16, T20S, R37E
Lea County, New Mexico
OCD Case #1R0477

that the Rice Operating Company (ROC) must submit for each of the six sites a separate Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate the ground water contamination at each of these sites. The Stage 1 Abatement Plans must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet of all the requirements specified in OCD Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by ROC of this written notice.

ROC's Stage 1 Abatement Plans must specifically meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the release using an appropriate number of isoconcentration maps and cross sections that depict the contamination that has been released from the sites and to provide the data necessary to select and design an effective abatement option. ROC may, if it chooses, concurrently submit a Stage 2 Abatement Plan that addresses appropriate proactive abatement options.

ROC should submit one paper copy and an electronic copy on CD for each of the Plans and for all future workplans and/or reports for each of the Plans. Please be sure to include the current corresponding OCD Case # on each of the respective Abatement Plans. An Abatement Plan # will be assigned as each of the Plans are submitted to the OCD. If you have any questions, please contact Edward J. Hansen of my staff at (505) 476-3489 or mailto:edwardj.hansen@state.nm.us.

Sincerely,

Wayne Price
Environmental Bureau Chief

WP:EJH:ejh

cc: Chris Williams, OCD Hobbs District Supervisor
Larry Johnson, OCD Hobbs

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

2007 JAN 25 PM 12:42

CERTIFIED MAIL
RETURN RECEIPT NO. 7005 3110 0000 2019 6388

January 15, 2007

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RE: NOTIFICATION OF GROUNDWATER IMPACT
Jct. A-2-1
Eunice-Monument-Eumont (EME) SWD System
Unit 'A', Sec. 2, T20S, R36E

Mr. Price:

Rice Operating Company (ROC) notifies the Director of the New Mexico Oil Conservation Division (OCD), Environmental Bureau of groundwater impact at the above-referenced site in accordance with NM Rule 116. The remediation of this site may be subject to NM Rule 19 procedures.

As a result of the Junction Box Upgrade initial delineation conducted by ROC, OCD was notified of the potential for groundwater impact at this site on June 29, 2005. A Junction Box Disclosure Report was submitted to OCD on March 27, 2006.

ROC retained Highlander Environmental (Highlander) of Midland, Texas to address this site. On October 4, 2006 Highlander submitted an Investigation & Characterization Plan to OCD for additional delineation which was approved by OCD the same day. On October 11 and 13, delineation soil borings and three 2-inch monitoring wells were installed at the site. Groundwater was encountered at approximately 37 feet below ground surface. After appropriate development, the wells were sampled pursuant to OCD guidelines by a third party and Environmental Lab of Texas performed the analyses. Chloride, Sulfate, and Total Dissolved Solids (TDS) concentrations in all 3 wells exceed New Mexico Water Quality Control Commission standards; however, concentrations are highest in the background well (MW-2), up-gradient from the junction box site.

Hydrocarbon constituents (BTEX) were also detected in MW-1, but not in concentrations above the WQCC Human Health Standards. Highlander will present a remedy for this site in the submission of a Corrective Action Plan.

ROC is the service provider (agent) for the EME Salt Water Disposal System and has no ownership of any portion of the pipelines, wells, or facilities. The EME System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental remediation projects of this magnitude require System Partner AFE approval and work begins as funds are received.

Please accept this notification for the above-referenced site. Should you have any questions or concerns regarding this site, please do not hesitate to contact me.

RICE OPERATING COMPANY

Kristin Farris Pope

Kristin Farris Pope
Project Scientist

enclosures: water analyses, well logs, survey map

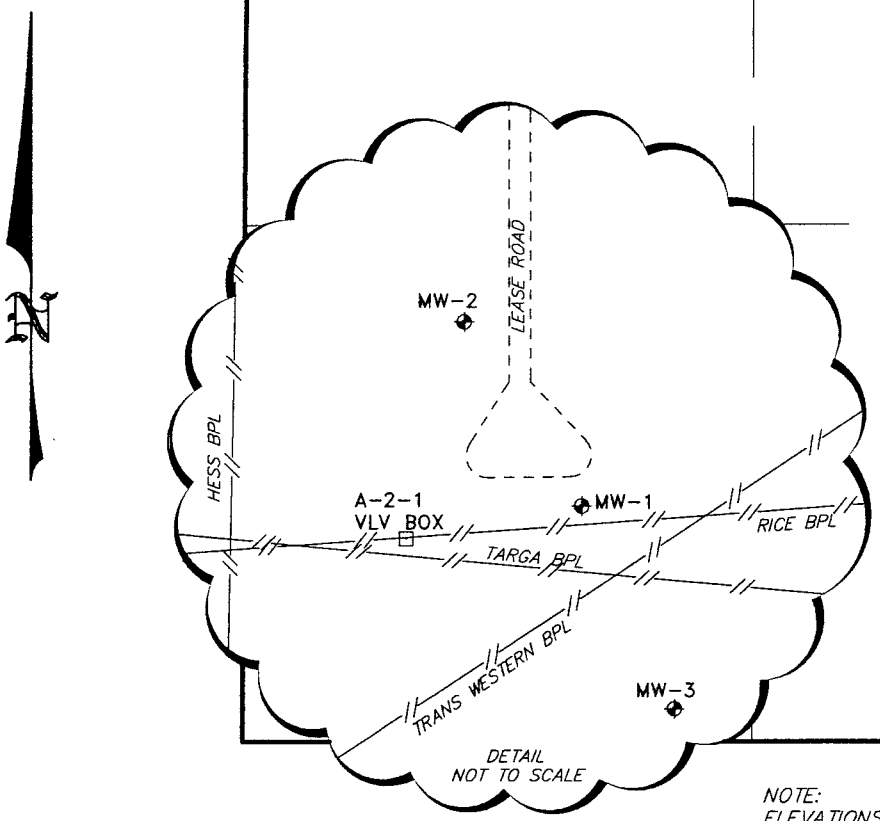
cc: SC, CDH, Highlander, file,

Mr. Chris Williams
NMOCD, District 1 Office
1625 N. French Drive
Hobbs, NM 88240

SECTION 2, TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, **NEW MEXICO.**

T-19-S
T-20-S

OWNER: STATE OF NEW MEXICO
LESSEE: JAMES F. BYRD, etal.



NOTE:
ELEVATIONS ARE ON BLACK MARK ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)
TOP CASING

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV.(PVC)	GROUND	ELEV(CONC)
MW-1	585872.8	854134.9	N 32°36'23.5"	W 103°19'03.2"	3588.50'	3585.65'	3585.96'
MW-2	585957.2	854079.2	N 32°36'24.3"	W 103°19'03.9"	3587.86'	3585.58'	3585.79'
MW-3	585780.1	854179.3	N 32°36'22.5"	W 103°19'02.7"	3586.49'	3583.92'	3583.98'

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

GARY L. JONES N.M. P.S. No. 7977
TEXAS P.L.S. No. 5074

GARY L. JONES REGISTERED PROFESSIONAL LAND SURVEYOR NEW MEXICO 7977

1000 0 1000 2000 FEET

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

RICE OPERATING COMPANY

REF: A-2-1 MONITOR WELLS

MONITOR WELLS LOCATED IN
SECTION 2, TOWNSHIP 20 SOUTH, RANGE 36 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 17530	Drawn By: K. GOAD		
Date: 12-22-2006	Disk: KJG – RC17530.DWG	Survey Date: 12-21-2006	Sheet 1 of 1 Sheets

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. A-2-1

Project Number: None Given

Location: T20S R36E Sec 2 A- Lea County, NM

Lab Order Number: 6K08010

Report Date: 11/17/06

Rice Operating Co.	Project: EME Jct. A-2-1	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	6K08010-01	Water	11/06/06 11:50	11-08-2006 14:50
Monitor Well #2	6K08010-02	Water	11/06/06 10:25	11-08-2006 14:50
Monitor Well #3	6K08010-03	Water	11/06/06 09:15	11-08-2006 14:50

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

Rice Operating Co.	Project: EME Jct. A-2-1	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 (6K08010-01) Water									
Benzene	**0.00331**	0.00100	mg/L	1	EK60808	11/10/06	11/11/06	EPA 8021B	
Toluene	**0.00158**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00337**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00307**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000348]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6K08010-02) Water									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	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		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6K08010-03) Water									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	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		*92.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. A-2-1	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 (6K08010-01) Water									
Total Alkalinity	**656**	4.00	mg/L	2	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	**8460**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	**22800**	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	**6780**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Monitor Well #2 (6K08010-02) Water									
Total Alkalinity	**604**	4.00	mg/L	2	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	**8680**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	**23600**	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	**6960**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Monitor Well #3 (6K08010-03) Water									
Total Alkalinity	**668**	2.00	mg/L	1	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	**7970**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	**20400**	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	**5950**	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	

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Rice Operating Co.	Project: EME Jct. A-2-1	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 (6K08010-01) Water									
Calcium	**259**	20.2	mg/L	250	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	**282**	1.80	"	50	"	"	"	"	
Potassium	**48.8**	0.600	"	10	"	"	"	"	
Sodium	**8780**	43.0	"	1000	"	"	"	"	
Monitor Well #2 (6K08010-02) Water									
Calcium	**841**	20.2	mg/L	250	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	**302**	1.80	"	50	"	"	"	"	
Potassium	**43.5**	0.600	"	10	"	"	"	"	
Sodium	**9110**	108	"	2500	"	"	"	"	
Monitor Well #3 (6K08010-03) Water									
Calcium	**582**	20.2	mg/L	250	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	**238**	1.80	"	50	"	"	"	"	
Potassium	**49.2**	0.600	"	10	"	"	"	"	
Sodium	**7620**	43.0	"	1000	"	"	"	"	

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

Project: EME Jct. A-2-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK60808 - EPA 5030C (GC)										
Blank (EK60808-BLK1)				Prepared: 11/08/06 Analyzed: 11/10/06						
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	*40.3*		*ug/l*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.5*		*"*	*40.0*		*83.8*	*80-120*			
LCS (EK60808-BS1)				Prepared: 11/08/06 Analyzed: 11/10/06						
Benzene	0.0525	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120			
Ethylbenzene	0.0457	0.00100	"	0.0500		91.4	80-120			
Xylene (p/m)	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (o)	0.0448	0.00100	"	0.0500		89.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.2*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.5*		*"*	*40.0*		*104*	*80-120*			
Calibration Check (EK60808-CCV1)				Prepared: 11/08/06 Analyzed: 11/11/06						
Benzene	50.9		ug/l	50.0		102	80-120			
Toluene	45.0		"	50.0		90.0	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	90.9		"	100		90.9	80-120			
Xylene (o)	45.4		"	50.0		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.9*		*"*	*40.0*		*99.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-120*			
Matrix Spike (EK60808-MS1)	**Source: 6K06005-01**			Prepared: 11/08/06 Analyzed: 11/10/06						
Benzene	0.0503	0.00100	mg/L	0.0500	ND	101	80-120			
Toluene	0.0458	0.00100	"	0.0500	ND	91.6	80-120			
Ethylbenzene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Xylene (p/m)	0.0939	0.00100	"	0.100	ND	93.9	80-120			
Xylene (o)	0.0465	0.00100	"	0.0500	ND	93.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.9*		*ug/l*	*40.0*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*40.0*		*108*	*80-120*			

Rice Operating Co.	Project: EME Jct. A-2-1	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 EK60808 - EPA 5030C (GC)										
Matrix Spike Dup (EK60808-MSD1)	**Source: 6K06005-01**			Prepared: 11/08/06 Analyzed: 11/10/06						
Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	2.93	20	
Toluene	0.0465	0.00100	"	0.0500	ND	93.0	80-120	1.52	20	
Ethylbenzene	0.0478	0.00100	"	0.0500	ND	95.6	80-120	1.05	20	
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120	4.58	20	
Xylene (o)	0.0494	0.00100	"	0.0500	ND	98.8	80-120	6.05	20	
Surrogate: a,a,a-Trifluorotoluene	*41.8*		*ug/l*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.7*		*"*	*40.0*		*109*	*80-120*			

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Rice Operating Co.	Project: EME Jct. A-2-1	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 EK60911 - General Preparation (WetChem)										
Blank (EK60911-BLK1)				Prepared & Analyzed: 11/09/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EK60911-BS1)				Prepared & Analyzed: 11/09/06						
Chloride	10.9	0.500	mg/L	10.0		109	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EK60911-CCV1)				Prepared & Analyzed: 11/09/06						
Chloride	10.8		mg/L	10.0		108	80-120			
Sulfate	10.1		"	10.0		101	80-120			
Duplicate (EK60911-DUP1)	**Source: 6K08007-01**			Prepared & Analyzed: 11/09/06						
Sulfate	86.2	5.00	mg/L		86.1			0.116	20	
Chloride	283	5.00	"		285			0.704	20	
Duplicate (EK60911-DUP2)	**Source: 6K09002-01**			Prepared & Analyzed: 11/09/06						
Sulfate	1650	20.0	mg/L		1590			3.70	20	
Chloride	248	20.0	"		239			3.70	20	
Matrix Spike (EK60911-MS1)	**Source: 6K08007-01**			Prepared & Analyzed: 11/09/06						
Sulfate	184	5.00	mg/L	100	86.1	97.9	80-120			
Chloride	404	5.00	"	100	285	119	80-120			
Matrix Spike (EK60911-MS2)	**Source: 6K09002-01**			Prepared & Analyzed: 11/09/06						
Chloride	655	20.0	mg/L	400	239	104	80-120			
Sulfate	1960	20.0	"	400	1590	92.5	80-120			

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

Rice Operating Co.	Project: EME Jct. A-2-1	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 EK61306 - Filtration Preparation										
Blank (EK61306-BLK1)				Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61306-DUP1)	**Source: 6K07002-01**			Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	10400	10.0	mg/L		9240			11.8	5	S-08
Duplicate (EK61306-DUP2)	**Source: 6K08010-02**			Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	24600	10.0	mg/L		23600			4.15	5	
Batch EK61307 - General Preparation (WetChem)										
Blank (EK61307-BLK1)				Prepared & Analyzed: 11/14/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EK61307-BS1)				Prepared & Analyzed: 11/14/06						
Bicarbonate Alkalinity	192	2.00	mg/L	200		96.0	85-115			
Duplicate (EK61307-DUP1)	**Source: 6K08007-01**			Prepared & Analyzed: 11/14/06						
Total Alkalinity	150	2.00	mg/L		152			1.32	20	
Reference (EK61307-SRM1)				Prepared & Analyzed: 11/14/06						
Total Alkalinity	248		mg/L	250		99.2	90-110			

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

Rice Operating Co.	Project: EME Jct. A-2-1	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 EK60919 - 6010B/No Digestion										
Blank (EK60919-BLK1)				Prepared & Analyzed: 11/09/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EK60919-CCV1)				Prepared & Analyzed: 11/09/06						
Calcium	2.28		mg/L	2.00		114	85-115			
Magnesium	2.14		"	2.00		107	85-115			
Potassium	1.87		"	2.00		93.5	85-115			
Sodium	2.04		"	2.00		102	85-115			
Duplicate (EK60919-DUP1)	**Source: 6K08007-01**			Prepared & Analyzed: 11/09/06						
Calcium	164	4.05	mg/L		166			1.21	20	
Magnesium	23.5	0.360	"		23.5			0.00	20	
Potassium	3.34	0.600	"		3.30			1.20	20	
Sodium	77.5	0.430	"		77.6			0.129	20	

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Rice Operating Co.	Project: EME Jct. A-2-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

S-08	Value outside Laboratory historical or method prescribed QC limits.
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: Raland K Tuttle Date: 11/17/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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: EME Junction A-2-1

Project #:

Project Loc: T20S R36E Sec2 A ~ Lea County New Mexico

PO #:

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

(lab use only)
ORDER #: 6K08010

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:	TOTAL:	TPH: 418.1 8015M	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 (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			11/6/2006	11:50		3	X		2				1		GW				X			X	X				X			X		X
02	Monitor Well #2			11/6/2006	10:25		3	X		2				1		GW				X			X	X				X			X		X
03	Monitor Well #3			11/6/2006	9:15		3	X		2				1		GW				X			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	11-8-06	2:50			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Carrie Keeler	11/8/06	2:50

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: 0.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient: Pine Op.

ate/ Time: 11/8/06 2:50

ab ID #: 6K0X010

nitials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	0.5 °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	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

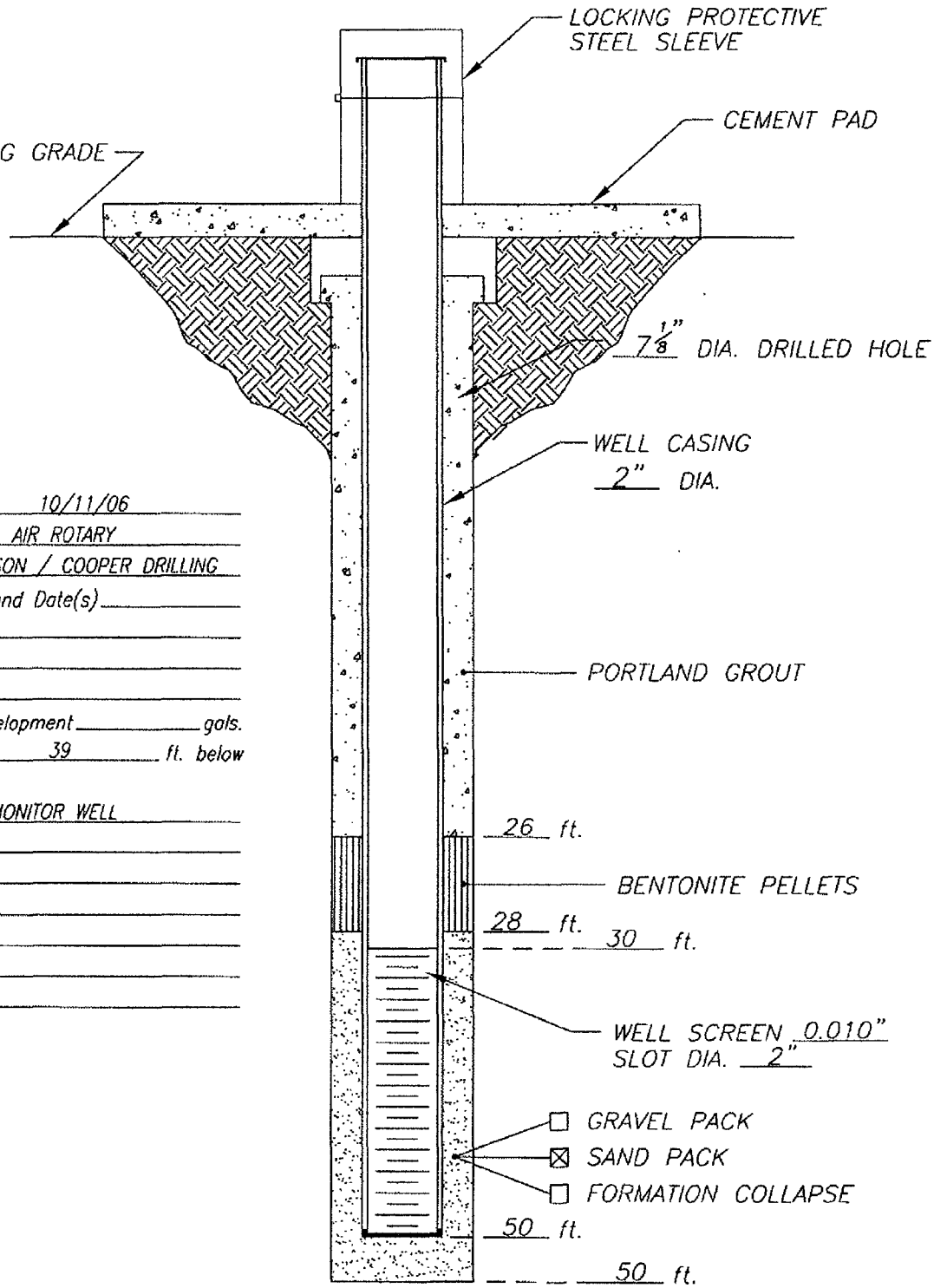
Regarding: _____

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

WELL CONSTRUCTION LOG



Installation Date(s) 10/11/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 39 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06 *Highlander Environmental*	CLIENT: *RICE OPERATING* PROJECT: *EME jct. A-2-1* LOCATION: *LEA COUNTY, NEW MEXICO*	WELL NO. MW-1

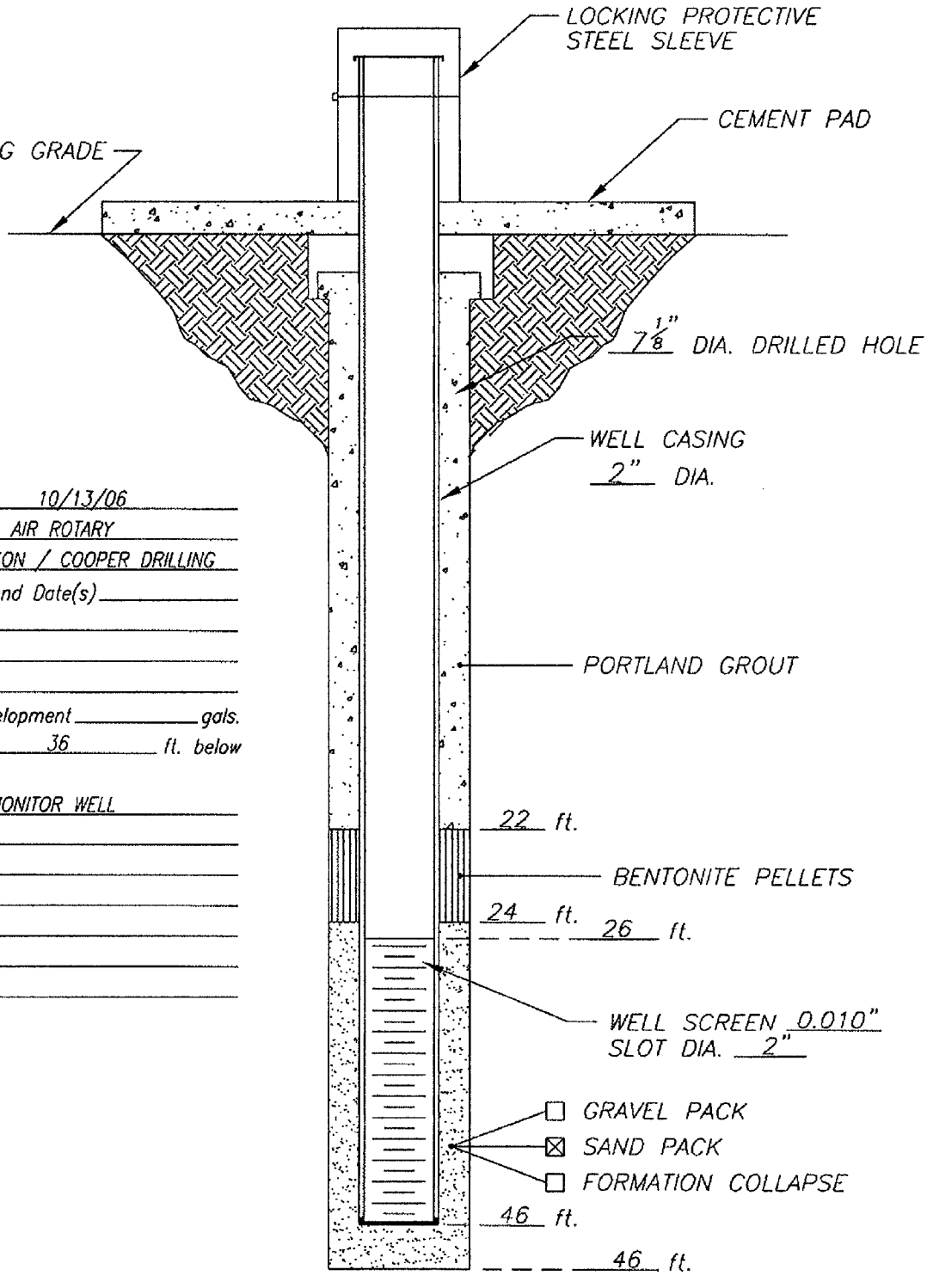
SAMPLE LOG

Boring/Well: MW-1
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 50
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
8-10	537	680	Dark brown hydrocarbon stained sand
13-15	483	640	Dark brown hydrocarbon stained sand
18-20	445	450	Dark brown hydrocarbon stained sand
23-25	502	370	Dark brown hydrocarbon stained sand
28-30	508	420	Dark brown hydrocarbon stained sand
33-35	511	840	Dark brown hydrocarbon stained sand
38-40	50	950	Dark brown hydrocarbon stained sand (wet)
43-45	0	--	Tan brown clay
48-50	0	--	Tan brown clay

Boring completed at 50 feet bgs Groundwater encountered at 39 feet

WELL CONSTRUCTION LOG



Installation Date(s) 10/13/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 36 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06	CLIENT: *RICE OPERATING*	WELL NO.
Highlander Environmental	PROJECT: *EME jct. A-2-1*	MW-2
	LOCATION: *LEA COUNTY, NEW MEXICO*	

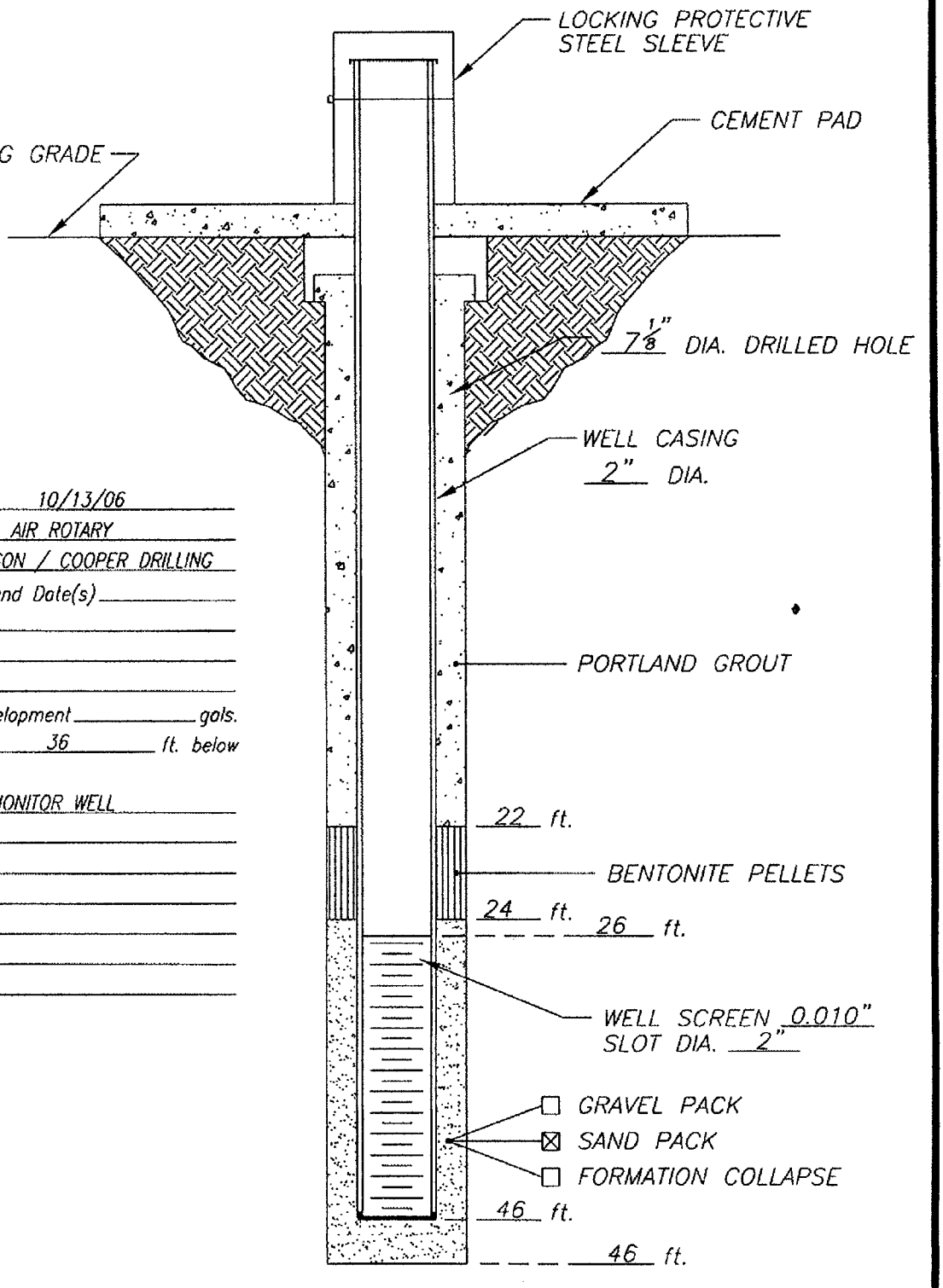
SAMPLE LOG

Boring/Well: MW-2
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 46
Date Installed: 10/13/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	1	88	Tan brown fine grain sand
8-10	2	587	Tan brown fine grain sand
13-15	1	480	Tan calcareous fine grain sand
18-20	0	511	Tan calcareous fine grain sand
23-25	2	481	Tan calcareous fine grain sand
28-30	0	782	Tan/buff calcareous fine grain sand
33-35	1	1131	Tan calcareous fine grain sand
38-40	0	--	Tan calcareous fine grain sand
43-45	0	--	Tan calcareous fine grain sand

Boring completed at 46 feet bgs Groundwater encountered at 36 feet

WELL CONSTRUCTION LOG



Installation Date(s) 10/13/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 36 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06 *Highlander Environmental*	CLIENT: *RICE OPERATING* PROJECT: *EME jct. A-2-1* LOCATION: *LEA COUNTY, NEW MEXICO*	WELL NO. MW-3

SAMPLE LOG

Boring/Well: MW-3
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 46
Date Installed: 10/13/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	4	184	Tan brown fine grain sand
8-10	7	270	Tan brown fine grain sand
13-15	7	338	Tan calcareous fine grain sand
18-20	4	648	Tan calcareous fine grain sand
23-25	6	513	Tan calcareous fine grain sand
28-30	6	630	Tan calcareous fine grain sand
33-35	5	618	Tan calcareous fine grain sand
38-40	0	--	Tan calcareous fine grain sand
43-45	0	--	Tan calcareous fine grain sand

Boring completed at 46 feet bgs Groundwater encountered at 36 feet