1R – 427 - 178

REPORTS

DATE:

5-2-05

EMI American JR Phillips ECL

IR0427-178

DISCLOSURE

REPORT

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	Amerada JR Phillips EOL	H	1	20S	36E	Lea	no box--junction eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Charlcie Byrd OTHER _____

Depth to Groundwater 40 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 9/10/2004 Date Completed 10/14/2004 OCD Witness No

Soil Excavated 44 cubic yards Excavation Length 10 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 9/13/2004, 9/17/2004 Sample Depth 12 ft

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

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	<0.025	0.0607	0.144	0.417	197	1270	234
BOTTOM COMP.	0.0874	0.581	0.524	2.349	855	3350	181
REMED. BACKFILL	0.0666	0.293	0.39	1.705	102	508	149

General Description of Remedial Action: This end-of-line (EOL) junction box was located directly south of an active production facility, just outside the fence. The junction has been eliminated from this site and the box lumber was removed when the site was decontaminated for NORM. The location was delineated using a backhoe while PID screenings and chloride field tests were conducted at regular intervals on the soil samples. Chloride concentrations did not exhibit a decline with depth but were generally low. PID readings, however, were elevated and lab results confirmed TPH concentrations that did not meet NMOCD guidelines. In accordance with the Junction Box Upgrade Work Plan (Rev. July 2003), a comparative lab analysis was performed on the bottom composite sample that exceeded 100 ppm on the PID. BTEX concentrations are compared with the sample that was composited in the field with those that were composited under laboratory conditions. A table of results is attached. The excavated soil from the 10 x 10 x 8-ft-deep excavation was blended on site and then backfilled into the hole. An identification plate has been placed on the surface of this site to mark the location for future environmental considerations. This junction has been eliminated and a new box is not required. NMOCD has been notified of potential groundwater impact at this location.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction box	4	90
	6	149
	8	510
	10	150
	12	119
5 ft west of junction box	2	90
	4	89
	6	89
	8	300
	10	569
	12	509

ADDITIONAL EVALUATION IS *HIGH* PRIORITY

enclosures: chloride graphs, photos, lab results, PID field screenings, BTEX results table

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental--Odessa, TX

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 5/2/2005 TITLE Project Scientist

** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.*

EME Amerada JR Phillips EOL

Unit 'H', Sec. 1, T20S, R36E

box removed; before excavation 8/17/2004

box removed; before excavation 9/10/2004

before excavation; junction removed with new plumbing 9/10/2004

backfilling 10 x 10 x 12 ft excavation 10/14/2004

backfilled 10/14/2004

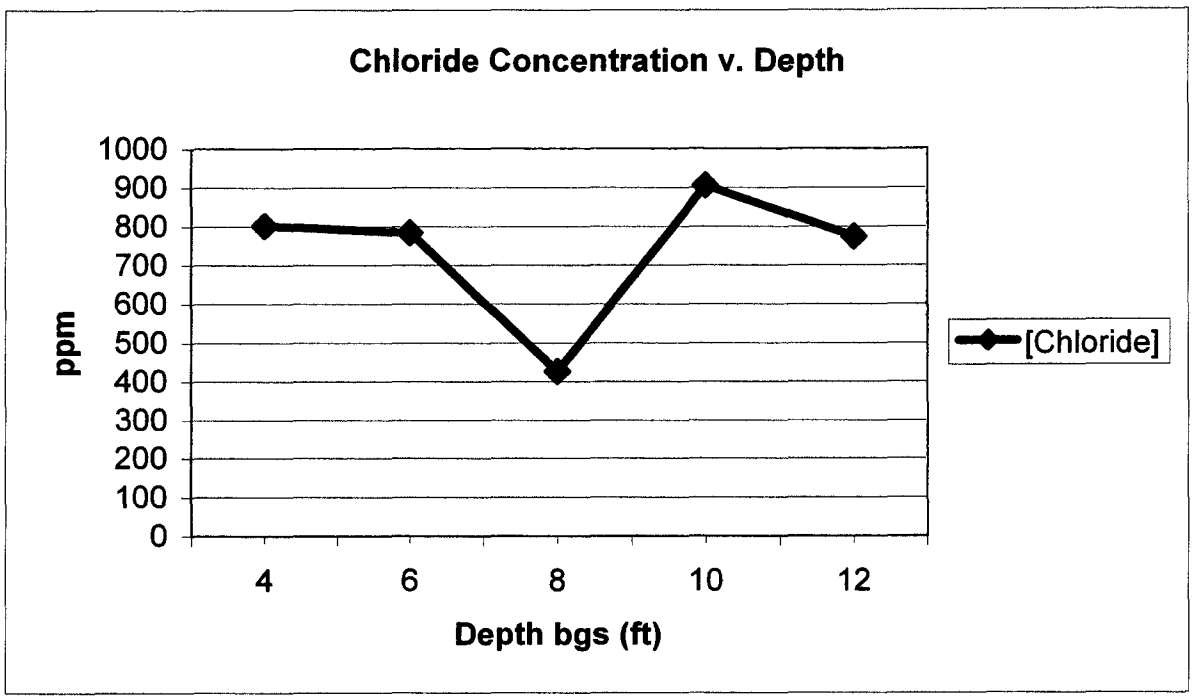
EME Amerada JR Phillips EOL

unit 'H', Sec. 1, T20S, R36E

vertical trench at junction

Depth bgs (ft)	[Cl⁻] ppm
4	802
6	784
8	426
10	906
12	774

Groundwater = 40 ft



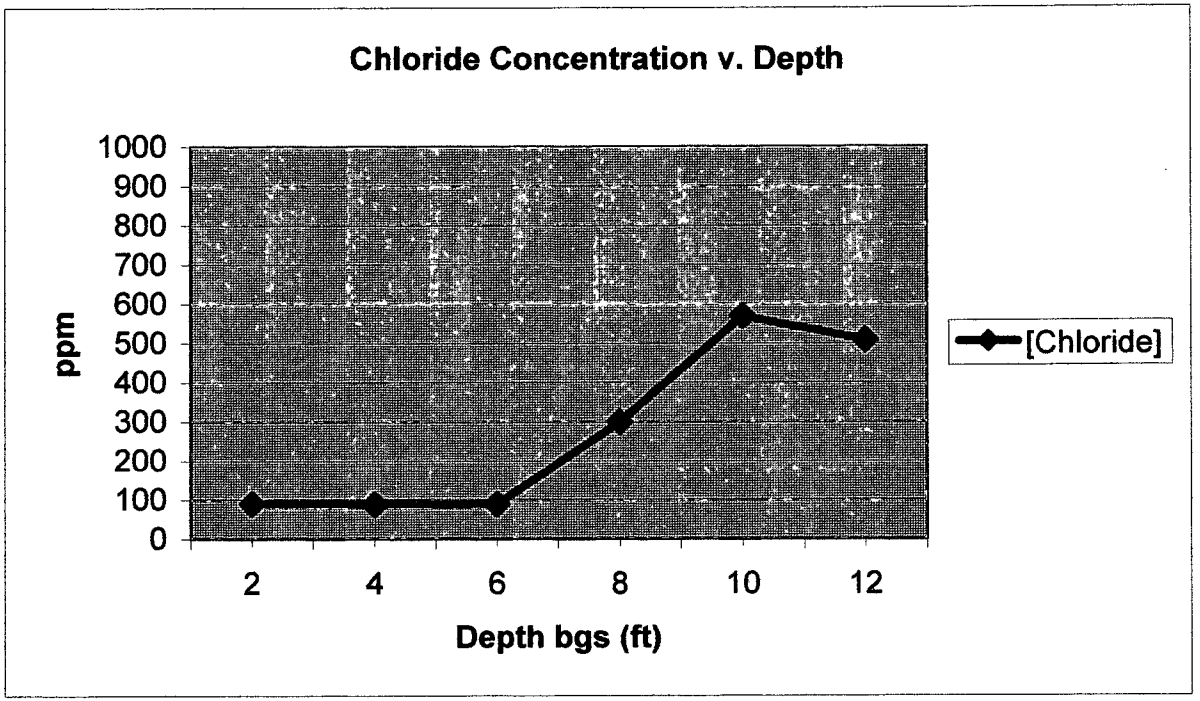
EME JR Phillips EOL

unit 'H', Sec. 1, T20S, R36E

5 feet WEST of junction box

Depth bgs (ft)	[Cl] ppm
2	90
4	89
6	89
8	300
10	569
12	509

Groundwater = 40 ft

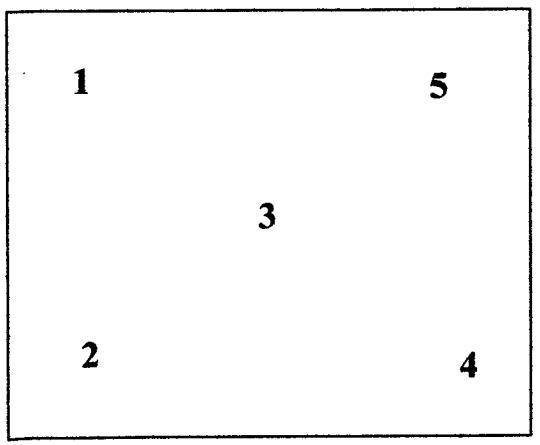


2004 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME
Site: JR Phillips EOL
Date: 9/17/2004
Sampler: Rob Elam (Curt's Environmental)
Laboratory: Environmental Lab of Texas

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	916.0	0.0874	0.581	0.524	2.349
	2	432.0				
	3	535.0				
	4	483.0				
	5	743.0				
			LAB COMPOSITE (mg/kg)			
			0.166	0.852	0.747	2.743



All composite sample components are collected in this pattern.

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

10 X 10 X 12 ft

COPY

Analytical Report

Prepared for:
Roy Rascon
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

backfill composite okay.
KP 5-2-05

Project: EME Hess JR Phillips EOL
Project Number: None Given
Location: RRR

Lab Order Number: 4I16005

Report Date: 09/22/04

Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Comp. Field	4116005-01	Soil	09/13/04 15:30	09/16/04 08:00
4 Wall Comp. Field	4116005-02	Soil	09/13/04 15:30	09/16/04 08:00
Backfill Comp. Field	4116005-03	Soil	09/13/04 15:30	09/16/04 08:00

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

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME Hess JR Phillips EOL Project Number: None Given Project Manager: Roy Rascon	Fax: (505) 397-1471 Reported: 09/22/04 10:10

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. Field (4I16005-01) Soil									
Benzene	**0.278**	0.0250	mg/kg dry	25	EI41715	09/16/04	09/17/04	EPA 8021B	
Toluene	**0.811**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.06**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**4.18**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.562**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*258 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*127 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**398**	50.0	mg/kg dry	5	EI41719	09/17/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2260**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2660**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*21.4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*15.6 %*	*70-130*		"	"	"	"	*S-06*
4 Wall Comp. Field (4I16005-02) Soil									
Benzene	**0.0679**	0.0250	mg/kg dry	25	EI41715	09/16/04	09/17/04	EPA 8021B	
Toluene	**0.323**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.495**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.71**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.332**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*147 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**97.0**	10.0	mg/kg dry	1	EI41719	09/17/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	**620**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**717**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
Backfill Comp. Field (4I16005-03) Soil									
Benzene	**0.0666**	0.0250	mg/kg dry	25	EI41715	09/16/04	09/17/04	EPA 8021B	
Toluene	**0.293**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.390**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.45**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.255**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*144 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**102**	10.0	mg/kg dry	1	EI41719	09/17/04	09/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	**508**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**610**	10.0	"	"	"	"	"	"	

Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Backfill Comp. Field (4I16005-03) Soil									
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*EI41719*	*09/17/04*	*09/19/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*120 %*	*70-130*		"	"	"	"	

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Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. Field (4I16005-01) Soil									
Chloride	213	20.0	mg/kg Wet	2	EI42112	09/16/04	09/21/04	SW 846 9253	
% Solids	87.0		%	1	EI41707	09/16/04	09/16/04	% calculation	
4 Wall Comp. Field (4I16005-02) Soil									
Chloride	149	20.0	mg/kg Wet	2	EI42112	09/16/04	09/21/04	SW 846 9253	
% Solids	80.0		%	1	EI41707	09/16/04	09/16/04	% calculation	
Backfill Comp. Field (4I16005-03) Soil									
Chloride	149	20.0	mg/kg Wet	2	EI42112	09/16/04	09/21/04	SW 846 9253	
% Solids	85.0		%	1	EI41707	09/16/04	09/16/04	% calculation	

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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 EI41715 - EPA 5030C (GC)										
Blank (EI41715-BLK1)				Prepared & Analyzed: 09/15/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*94.1*		*ug/kg*	*100*		*94.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*82.3*		"	*100*		*82.3*	*80-120*			
LCS (EI41715-BS1)				Prepared & Analyzed: 09/15/04						
Benzene	90.4		ug/kg	100		90.4	80-120			
Toluene	93.0		"	100		93.0	80-120			
Ethylbenzene	94.1		"	100		94.1	80-120			
Xylene (p/m)	214		"	200		107	80-120			
Xylene (o)	102		"	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*87.1*		"	*100*		*87.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.1*		"	*100*		*99.1*	*80-120*			
Calibration Check (EI41715-CCV1)				Prepared: 09/15/04 Analyzed: 09/17/04						
Benzene	103		ug/kg	100		103	80-120			
Toluene	99.9		"	100		99.9	80-120			
Ethylbenzene	93.0		"	100		93.0	80-120			
Xylene (p/m)	209		"	200		104	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*116*		"	*100*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*93.0*		"	*100*		*93.0*	*80-120*			
Matrix Spike (EI41715-MS1)	**Source: 4I14003-22**			Prepared: 09/15/04 Analyzed: 09/17/04						
Benzene	106		ug/kg	100	ND	106	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	105		"	100	ND	105	80-120			
Xylene (p/m)	237		"	200	ND	118	80-120			
Xylene (o)	113		"	100	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*116*		"	*100*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		"	*100*		*104*	*80-120*			

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122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

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 EI41715 - EPA 5030C (GC)										
Matrix Spike Dup (EI41715-MSD1)	**Source: 4I14003-22**			Prepared: 09/15/04 Analyzed: 09/17/04						
Benzene	98.2		ug/kg	100	ND	98.2	80-120	7.64	20	
Toluene	98.8		"	100	ND	98.8	80-120	7.97	20	
Ethylbenzene	98.8		"	100	ND	98.8	80-120	6.08	20	
Xylene (p/m)	223		"	200	ND	112	80-120	5.22	20	
Xylene (o)	107		"	100	ND	107	80-120	5.45	20	
Surrogate: a,a,a-Trifluorotoluene	*110*		"	*100*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.4*		"	*100*		*98.4*	*80-120*			
Batch EI41719 - Solvent Extraction (GC)										
Blank (EI41719-BLK1)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*44.2*		*mg/kg*	*50.0*		*88.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.8*		"	*50.0*		*83.6*	*70-130*			
Blank (EI41719-BLK2)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*48.3*		*mg/kg*	*50.0*		*96.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		"	*50.0*		*72.6*	*70-130*			
LCS (EI41719-BS1)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	426	10.0	mg/kg wet	500		85.2	75-125			
Diesel Range Organics >C12-C35	498	10.0	"	500		99.6	75-125			
Total Hydrocarbon C6-C35	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.4*		"	*50.0*		*113*	*70-130*			

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

Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

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 EI41719 - Solvent Extraction (GC)										
LCS (EI41719-BS2)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	415	10.0	mg/kg wet	500		83.0	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	920	10.0	"	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	*54.0*		*mg/kg*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.3*		"	*50.0*		*88.6*	*70-130*			
Calibration Check (EI41719-CCV1)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	945		"	1000		94.5	80-120			
Surrogate: 1-Chlorooctane	*52.0*		"	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.9*		"	*50.0*		*95.8*	*70-130*			
Calibration Check (EI41719-CCV2)				Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	427		mg/kg	500		85.4	80-120			
Diesel Range Organics >C12-C35	483		"	500		96.6	80-120			
Total Hydrocarbon C6-C35	910		"	1000		91.0	80-120			
Surrogate: 1-Chlorooctane	*51.6*		"	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.0*		"	*50.0*		*94.0*	*70-130*			
Matrix Spike (EI41719-MS1)	**Source: 4I16003-01**			Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	469	10.0	mg/kg dry	521	ND	90.0	75-125			
Diesel Range Organics >C12-C35	555	10.0	"	521	ND	107	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1040	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	*55.9*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.5*		"	*50.0*		*105*	*70-130*			
Matrix Spike (EI41719-MS2)	**Source: 4I17004-13**			Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	506	10.0	mg/kg dry	549	ND	92.2	75-125			
Diesel Range Organics >C12-C35	627	10.0	"	549	15.3	111	75-125			
Total Hydrocarbon C6-C35	1130	10.0	"	1100	15.3	101	75-125			
Surrogate: 1-Chlorooctane	*55.1*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.7*		"	*50.0*		*109*	*70-130*			

Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

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 EI41719 - Solvent Extraction (GC)										
Matrix Spike Dup (EI41719-MSD1)	**Source: 4I16003-01**			Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	478	10.0	mg/kg dry	521	ND	91.7	75-125	1.90	20	
Diesel Range Organics >C12-C35	577	10.0	"	521	ND	111	75-125	3.89	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1040	ND	102	75-125	3.85	20	
Surrogate: 1-Chlorooctane	*57.5*		*mg/kg*	*50.0*		*115*	*70-130*			-
Surrogate: 1-Chlorooctadecane	*53.8*		*"*	*50.0*		*108*	*70-130*			
Matrix Spike Dup (EI41719-MSD2)	**Source: 4I17004-13**			Prepared: 09/17/04 Analyzed: 09/19/04						
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	549	ND	95.1	75-125	3.11	20	
Diesel Range Organics >C12-C35	630	10.0	"	549	15.3	112	75-125	0.477	20	
Total Hydrocarbon C6-C35	1150	10.0	"	1100	15.3	103	75-125	1.75	20	
Surrogate: 1-Chlorooctane	*57.0*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.5*		*"*	*50.0*		*115*	*70-130*			

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Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

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 EI41707 - % Solids										
Blank (EI41707-BLK1)				Prepared & Analyzed: 09/16/04						
% Solids	100		%							
Duplicate (EI41707-DUP1)		Source: 4I15011-01		Prepared & Analyzed: 09/16/04						
% Solids	100		%		100			0.00	20	
Batch EI42112 - Water Extraction										
Blank (EI42112-BLK1)				Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EI42112-MS1)		Source: 4I16001-01		Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	1300	20.0	mg/kg Wet	500	830	94.0	80-120			
Matrix Spike Dup (EI42112-MSD1)		Source: 4I16001-01		Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	1300	20.0	mg/kg Wet	500	830	94.0	80-120	0.00	20	
Reference (EI42112-SRM1)				Prepared & Analyzed: 09/21/04						
Chloride	4940		mg/kg	5000		98.8	80-120			

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Rice Operating Co.	Project: EME Hess JR Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/22/04 10:10

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 9-22-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

EME

Project Manager: Roy Rascon
Company Name: RICE Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: R B Elam

Project Name: Hess JR Phillips EOL
Project #:
Project Loc: ~~EME~~ RRR
PO #:

LAB # (lab use only) 41600	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz glass	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TOTAL: TDS / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 X											RUSH TAT (Pre-Schedule)	Standard TAT
-01	12' Bottom Comp. Field	9-13-04	3:30	1	✓									✓		✓			✓				✓												
-02	4 Wall Comp Field	9-13-04	3:30	1	✓									✓		✓			✓				✓												
-03	Backfill Comp Field	9-13-04	3:30	1	✓									✓		✓			✓				✓												

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 2.5°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
R B Elam	9-13-04	4:30	C Haynes	9/14	17:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
C Haynes	9/16	800	Jaime Mercury	9-16-04	0800

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating

Date/Time: 09-16-04 @ 0930

Order #: 4I16005

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	2.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

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_____

ENVIRONMENTAL LAB OF

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COPY

4-wall comp. + BTEX study on bottom comp.

KP 5-2-05

Analytical Report

Prepared for:

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

EME Amarada

Project: Hess J.R. Phillips EOL
Project Number: None Given
Location: EME

Lab Order Number: 4I20001

Report Date: 09/24/04

Rice Operating Co.	Project: Hess J.R. Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/24/04 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Composite #1 thru #5	4I20001-01	Soil	09/17/04 14:00	09/17/04 19:30
North Wall Composite #1 thru #5	4I20001-02	Soil	09/17/04 14:20	09/17/04 19:30
South Wall Composite #1 thru #5	4I20001-03	Soil	09/17/04 14:40	09/17/04 19:30
East Wall Composite #1 thru #5	4I20001-04	Soil	09/17/04 15:00	09/17/04 19:30
West Wall Composite #1 thru #5	4I20001-05	Soil	09/17/04 15:15	09/17/04 19:30
12' Field Bottom Comp.	4I20001-06	Soil	09/17/04 15:30	09/17/04 19:30
4 Wall Comp. Field	4I20001-07	Soil	09/17/04 15:30	09/17/04 19:30

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite #1 thru #5 (4I20001-01) Soil									
Benzene	**0.166**	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	**0.852**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.747**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.24**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.503**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene	2.143	*228 %*	*80-120*		"	"	"	"	- *S-04*
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
North Wall Composite #1 thru #5 (4I20001-02) Soil									
Benzene	**0.0812**	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	**0.430**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.629**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.27**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.361**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*162 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		"	"	"	"	
South Wall Composite #1 thru #5 (4I20001-03) Soil									
Benzene	**0.0679**	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	**0.471**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.538**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.18**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.413**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*161 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		"	"	"	"	
East Wall Composite #1 thru #5 (4I20001-04) Soil									
Benzene	**0.0346**	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	**0.362**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.452**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.09**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.376**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*135 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	

Rice Operating Co.	Project: Hess J.R. Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/24/04 16:43

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West Wall Composite #1 thru #5 (4I20001-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0281**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
12' Field Bottom Comp. (4I20001-06) Soil									
Benzene	**0.0874**	0.0250	mg/kg dry	25	EI42407	09/22/04	09/22/04	EPA 8021B	
Toluene	**0.581**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.524**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.91**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.439**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene	2-349	*184 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**855**	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3350**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4200**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*150 %*	*70-130*		"	"	"	"	*S-04*
4 Wall Comp. Field (4I20001-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI42402	09/23/04	09/23/04	EPA 8021B	
Toluene	**0.0607**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.144**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.276**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.141**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene	0.417	*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**197**	10.0	mg/kg dry	1	EI41720	09/20/04	09/21/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1270**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1470**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*128 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*139 %*	*70-130*		"	"	"	"	*S-04*

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Rice Operating Co.	Project: Hess J.R. Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/24/04 16:43

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite #1 thru #5 (4I20001-01) Soil									
% Solids	**89.0**		%	1	EI42203	09/21/04	09/21/04	% calculation	
North Wall Composite #1 thru #5 (4I20001-02) Soil									
% Solids	**91.0**		%	1	EI42203	09/21/04	09/21/04	% calculation	
South Wall Composite #1 thru #5 (4I20001-03) Soil									
% Solids	**88.0**		%	1	EI42203	09/21/04	09/21/04	% calculation	
East Wall Composite #1 thru #5 (4I20001-04) Soil									
% Solids	**85.0**		%	1	EI42203	09/21/04	09/21/04	% calculation	
West Wall Composite #1 thru #5 (4I20001-05) Soil									
% Solids	**92.0**		%	1	EI42203	09/21/04	09/21/04	% calculation	
12' Field Bottom Comp. (4I20001-06) Soil									
Chloride	**181**	20.0	mg/kg Wet	2	EI42112	09/21/04	09/21/04	SW 846 9253	
% Solids	**90.0**		%	1	EI42110	09/20/04	09/21/04	% calculation	
4 Wall Comp. Field (4I20001-07) Soil									
Chloride	**234**	20.0	mg/kg Wet	2	EI42112	09/21/04	09/21/04	SW 846 9253	
% Solids	**90.0**		%	1	EI42110	09/20/04	09/21/04	% calculation	

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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 EI41720 - Solvent Extraction (GC)										
Blank (EI41720-BLK1)				Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*52.1*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*62.4*		*"*	*50.0*		*125*	*70-130*			
Blank (EI41720-BLK2)				Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*44.8*		*mg/kg*	*50.0*		*89.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.1*		*"*	*50.0*		*72.2*	*70-130*			
LCS (EI41720-BS1)				Prepared & Analyzed: 09/20/04						
Gasoline Range Organics C6-C12	418	10.0	mg/kg wet	500		83.6	75-125			
Diesel Range Organics >C12-C35	412	10.0	"	500		82.4	75-125			
Total Hydrocarbon C6-C35	830	10.0	"	1000		83.0	75-125			
Surrogate: 1-Chlorooctane	*49.4*		*mg/kg*	*50.0*		*98.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.6*		*"*	*50.0*		*71.2*	*70-130*			
LCS (EI41720-BS2)				Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	438	10.0	mg/kg wet	500		87.6	75-125			
Diesel Range Organics >C12-C35	470	10.0	"	500		94.0	75-125			
Total Hydrocarbon C6-C35	908	10.0	"	1000		90.8	75-125			
Surrogate: 1-Chlorooctane	*49.5*		*mg/kg*	*50.0*		*99.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.5*		*"*	*50.0*		*71.0*	*70-130*			
Calibration Check (EI41720-CCV1)				Prepared & Analyzed: 09/20/04						
Gasoline Range Organics C6-C12	455		mg/kg	500		91.0	80-120			
Diesel Range Organics >C12-C35	552		"	500		110	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	*57.2*		*"*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.2*		*"*	*50.0*		*122*	*70-130*			

Rice Operating Co.	Project: Hess J.R. Phillips EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/24/04 16:43

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 EI41720 - Solvent Extraction (GC)										
Calibration Check (EI41720-CCV2)				Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	436		mg/kg	500		87.2	80-120			
Diesel Range Organics >C12-C35	583		"	500		117	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	*57.7*		*"*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*62.6*		*"*	*50.0*		*125*	*70-130*			
Matrix Spike (EI41720-MS1)		**Source: 4I17011-06**		Prepared & Analyzed: 09/20/04						
Gasoline Range Organics C6-C12	428	10.0	mg/kg dry	510	ND	83.9	75-125			
Diesel Range Organics >C12-C35	543	10.0	"	510	19.1	103	75-125			
Total Hydrocarbon C6-C35	971	10.0	"	1020	19.1	93.3	75-125			
Surrogate: 1-Chlorooctane	*53.7*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.1*		*"*	*50.0*		*100*	*70-130*			
Matrix Spike (EI41720-MS2)		**Source: 4I17012-05**		Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	466	10.0	mg/kg dry	515	ND	90.5	75-125			
Diesel Range Organics >C12-C35	540	10.0	"	515	6.50	104	75-125			
Total Hydrocarbon C6-C35	1010	10.0	"	1030	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	*58.4*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.5*		*"*	*50.0*		*87.0*	*70-130*			
Matrix Spike Dup (EI41720-MSD1)		**Source: 4I17011-06**		Prepared & Analyzed: 09/20/04						
Gasoline Range Organics C6-C12	445	10.0	mg/kg dry	510	ND	87.3	75-125	3.89	20	
Diesel Range Organics >C12-C35	563	10.0	"	510	19.1	107	75-125	3.62	20	
Total Hydrocarbon C6-C35	1010	10.0	"	1020	19.1	97.1	75-125	3.94	20	
Surrogate: 1-Chlorooctane	*56.0*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.5*		*"*	*50.0*		*101*	*70-130*			
Matrix Spike Dup (EI41720-MSD2)		**Source: 4I17012-05**		Prepared: 09/20/04 Analyzed: 09/21/04						
Gasoline Range Organics C6-C12	460	10.0	mg/kg dry	515	ND	89.3	75-125	1.30	20	
Diesel Range Organics >C12-C35	540	10.0	"	515	6.50	104	75-125	0.00	20	
Total Hydrocarbon C6-C35	1000	10.0	"	1030	ND	97.1	75-125	0.995	20	
Surrogate: 1-Chlorooctane	*58.2*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.9*		*"*	*50.0*		*87.8*	*70-130*			

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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 EI42402 - EPA 5030C (GC)										
Blank (EI42402-BLK1)				Prepared & Analyzed: 09/22/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*94.9*		*ug/kg*	*100*		*94.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*80.4*		"	*100*		*80.4*	*80-120*			
LCS (EI42402-BS1)				Prepared & Analyzed: 09/23/04						
Benzene	110		ug/kg	100		110	80-120			
Toluene	108		"	100		108	80-120			
Ethylbenzene	96.5		"	100		96.5	80-120			
Xylene (p/m)	213		"	200		106	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*118*		"	*100*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*84.5*		"	*100*		*84.5*	*80-120*			
Calibration Check (EI42402-CCV1)				Prepared: 09/23/04 Analyzed: 09/24/04						
Benzene	107		ug/kg	100		107	80-120			
Toluene	107		"	100		107	80-120			
Ethylbenzene	98.9		"	100		98.9	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*119*		"	*100*		*119*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*88.3*		"	*100*		*88.3*	*80-120*			
Matrix Spike (EI42402-MS1)	**Source: 4I21003-02**			Prepared & Analyzed: 09/23/04						
Benzene	97.8		ug/kg	100	ND	97.8	80-120			
Toluene	98.4		"	100	ND	98.4	80-120			
Ethylbenzene	93.8		"	100	ND	93.8	80-120			
Xylene (p/m)	212		"	200	ND	106	80-120			
Xylene (o)	99.7		"	100	ND	99.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	*108*		"	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*91.2*		"	*100*		*91.2*	*80-120*			

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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 EI42402 - EPA 5030C (GC)										
Matrix Spike Dup (EI42402-MSD1)	**Source: 4I21003-02**			Prepared & Analyzed: 09/23/04						
Benzene	91.8		ug/kg	100	ND	91.8	80-120	6.33	20	
Toluene	93.1		"	100	ND	93.1	80-120	5.54	20	
Ethylbenzene	90.6		"	100	ND	90.6	80-120	3.47	20	
Xylene (p/m)	204		"	200	ND	102	80-120	3.85	20	
Xylene (o)	95.9		"	100	ND	95.9	80-120	3.89	20	
Surrogate: a,a,a-Trifluorotoluene	*109*		*"*	*100*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*88.4*		*"*	*100*		*88.4*	*80-120*			
Batch EI42407 - EPA 5030C (GC)										
Blank (EI42407-BLK1)				Prepared & Analyzed: 09/22/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*94.9*		*ug/kg*	*100*		*94.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*80.4*		*"*	*100*		*80.4*	*80-120*			
LCS (EI42407-BS1)				Prepared & Analyzed: 09/22/04						
Benzene	105		ug/kg	100		105	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	226		"	200		113	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*117*		*"*	*100*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.0*		*"*	*100*		*98.0*	*80-120*			

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 EI42407 - EPA 5030C (GC)										
Calibration Check (EI42407-CCV1)				Prepared: 09/22/04 Analyzed: 09/23/04						
Benzene	105		ug/kg	100		105	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	*116*		"	*100*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*93.6*		"	*100*		*93.6*	*80-120*			
Matrix Spike (EI42407-MS1)	**Source: 4I17012-05**			Prepared: 09/22/04 Analyzed: 09/23/04						
Benzene	108		ug/kg	100	ND	108	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	103		"	100	ND	103	80-120			
Xylene (p/m)	228		"	200	ND	114	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*119*		"	*100*		*119*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.1*		"	*100*		*98.1*	*80-120*			
Matrix Spike Dup (EI42407-MSD1)	**Source: 4I17012-05**			Prepared: 09/22/04 Analyzed: 09/23/04						
Benzene	114		ug/kg	100	ND	114	80-120	5.41	20	
Toluene	109		"	100	ND	109	80-120	1.85	20	
Ethylbenzene	102		"	100	ND	102	80-120	0.976	20	
Xylene (p/m)	237		"	200	ND	118	80-120	3.45	20	
Xylene (o)	105		"	100	ND	105	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	*117*		"	*100*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.1*		"	*100*		*95.1*	*80-120*			

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 EI42110 - % Solids										
Blank (EI42110-BLK1)				Prepared: 09/20/04 Analyzed: 09/21/04						
% Solids	100		%							
Duplicate (EI42110-DUP1)		**Source: 4I17011-03**		Prepared: 09/20/04 Analyzed: 09/21/04						
% Solids	93.0		%		93.0			0.00	20	
Batch EI42112 - Water Extraction										
Blank (EI42112-BLK1)				Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EI42112-MS1)		**Source: 4I16001-01**		Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	1300	20.0	mg/kg Wet	500	830	94.0	80-120			
Matrix Spike Dup (EI42112-MSD1)		**Source: 4I16001-01**		Prepared: 09/16/04 Analyzed: 09/21/04						
Chloride	1300	20.0	mg/kg Wet	500	830	94.0	80-120	0.00	20	
Reference (EI42112-SRM1)				Prepared & Analyzed: 09/21/04						
Chloride	4940		mg/kg	5000		98.8	80-120			
Batch EI42203 - % Solids										
Blank (EI42203-BLK1)				Prepared & Analyzed: 09/21/04						
% Solids	100		%							
Duplicate (EI42203-DUP1)		**Source: 4I20001-01**		Prepared & Analyzed: 09/21/04						
% Solids	89.0		%		89.0			0.00	20	

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 9-28-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Hess J.R. Phillips EOL
Project #:
Project Loc: EME
PO #:

4I20001 Composite 9:2 glass

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz glass	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)
	12' Bottom #1	9-17-04	2:00	1	✓									✓	
You only will comp these	12' Bottom #2	9-17-04	2:00	1	✓									✓	
	12' Bottom #3	9-17-04	2:00	1	✓									✓	
	12' Bottom #4	9-17-04	2:00	1	✓									✓	
	12' Bottom #5	9-17-04	2:00	1	✓									✓	
	North Wall #1	9-17-04	2:20	1	✓									✓	
	North Wall #2	9-17-04	2:20	1	✓									✓	
	North Wall #3	9-17-04	2:20	1	✓									✓	
02	North Wall #4	9-17-04	2:20	1	✓									✓	
	North Wall #5	9-17-04	2:20	1	✓									✓	

Analyze For:

TCLP:	TOTAL:	TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030
									X

RUSH TAT (Pre-Schedule) | Standard TAT

Special Instructions:
BTEX study

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	9-17-04	3:45		9/17	17—
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	9/17	19:30	Lalan dk/LO	9-17-04	1930

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Lic 2°C

Environmental Lab of Texas, Inc.

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

2.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Hess J.R. Phillips EOL
Project #:
Project Loc: EME
PO #:

4I20001

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers (4oz Glass)	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
	South Wall #1	9-17-04	2:40	1	✓									✓									✓		
	" " #2	9-17-04	2:40	1	✓									✓									✓		
-03	" " #3	9-17-04	2:40	1	✓									✓									✓		
	" " #4	9-17-04	2:40	1	✓									✓									✓		
	" " #5	9-17-04	2:40	1	✓									✓									✓		
	East Wall #1	9-17-04	3:00	1	✓									✓									✓		
	" " #2	9-17-04	3:00	1	✓									✓									✓		
-04	" " #3	9-17-04	3:00	1	✓									✓									✓		
	" " #4	9-17-04	3:00	1	✓									✓									✓		
	" " #5	9-17-04	3:00	1	✓									✓									✓		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
RUC 2°C

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	9-17-04	3:45	CP Hagner	9/17	17-
CP Hagner	9/17	19:30	Received by ELOT: Rala d IC Jr	9-17-04	1930

3

Environmental Lab of Texas, Inc.

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobb, N.M. 88240
Telephone No: 505 393-9174
Fax No: 505-397-1471
Sampler Signature: [signature]

Project Name: Hess JR Phillips EOL
Project #:
Project Loc: EME
PO #:

LAB # (lab use only) 4I20001 Composite in analysis	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz glass	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For (TOTAL ☒): TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
You will composite these	West Wall #1	9-17-04	3:15	1	✓									✓									✓		
	#2	9-17-04	3:15	1	✓									✓									✓		
	#3	9-17-04	3:15	1	✓									✓									✓		
	#4	9-17-04	3:15	1	✓									✓									✓		
	#5	9-17-04	3:15	1	✓									✓									✓		
-06	12' Field Bottom Comp	9-17-04	3:30	1	✓									✓		✓			✓				✓		
-07	4 Wall Comp Field	9-17-04	3:30	1	✓									✓		✓			✓				✓		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments: Ice 2°C

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-17-04	3:45	[signature]	9/17	17–

Relinquished by:	Date	Time	Received by ELOT:	Date	Time
[signature]	9/17	19:30	[signature]	9-17-04	1930

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 09-20-04 @

Order #: 4I20001

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	2 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

RICE OPERATING COMPANY

122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE
AIR
LOT NO: 03-2475
EXP. DATE: 10-19-04
METER READING
ACCURACY: 100.°

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 4-19-04
ACCURACY: ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Hess JR Phillips EOL	H	1	20	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
North Wall	760		
South Wall	665		
East Wall	671		
West Wall	123		
12' Bottom Comp	720		
4 Wall Comp	376		
Backfill	482		

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Rob Elam
Signature

Title

9-13-04
Date

RICE OPERATING COMPANY

122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
SERIAL NO: ~~104412~~ 104550
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 03-2475 FILL DATE: 4-19-04
EXP. DATE: 10-19-04 ACCURACY: ± 2%
METER READING
ACCURACY: 100.0

B-Tex Study

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Hess JR Phillips EOL	H	1	20	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
12' Bottom #1	916	North Wall #1	34.3
#2	432	#2	152
#3	535	#3	141
#4	483	#4	841
#5	743	#5	275

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Signature

9-17-04
Date

COPY

RICE OPERATING COMPANY

122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
SERIAL NO: ~~104412~~ 104550
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 03-2475
FILL DATE: 4-19-04
EXP. DATE: 10-19-04
ACCURACY: ± 2%
METER READING
ACCURACY: 100.0

B-Tex Study

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Hess J.R. Phillips EOL	H	1	20	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
5' South Wall #1	313	5' East Wall #1	473
#2	883	#2	848
#3	565	#3	701
#4	636	#4	739
#5	25.7	#5	14.4
5' West Wall #1	0	12' Bottom Com	519
#2	36.4	North Wall Comp	487
#3	18.1	5' South Wall Comp	540
#4	66.1	5' East Wall Comp	648
#5	0	5' West Wall Comp	56.2

5-point composite samples

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Rob Elam
Signature

9-17-04
Date