

1R - 425-12

REPORTS

DATE:

MARCH 1, 2006

1R025-12

Final Report

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	Mack Energy EOL	F	7	18S	35E	Lea	System Abandonment--no box		

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 85 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 8/16/2005 Date Completed 12/22/2005 NMOCD Witness no

Soil Excavated 267 cubic yards Excavation Length 30 Width 20 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 8/29/2005 Sample Depth 12 ft

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

CHLORIDE FIELD TESTS

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.5	<10.0	<10.0	404
BOTTOM COMP.	0.3	<10.0	<10.0	343
REMEDI. BACKFILL	1.2	<10.0	<10.0	830

LOCATION	DEPTH (ft)	ppm
vertical trench at junction	9	2498
	10	2396
	11	1578
	12	751
	13	735
4-wall comp.	n/a	499
bottom comp.	12	398
backfill comp.	n/a	710

General Description of Remedial Action:

This junction box was addressed as

part of the Vacuum System Abandonment. The junction site was delineated using a backhoe while soil samples were collected at regular intervals, creating a 30 x 20 x 12-ft-deep excavation.

Composite samples were collected from the 12-ft bottom, walls, and backfill of the excavation; laboratory analyses were performed on these samples for confirmation. TPH was not detectable within the laboratory limits (<10.0), meeting NMOCD guidelines. Chloride concentrations were also relatively low and confirmed the field tests. The excavated soil was blended on site and then backfilled into the excavation and contoured to the surrounding surface. The disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate. Since the Vacuum SWD System has been abandoned, a junction box is no longer required at this location.

enclosures: chloride graph, photos, lab results, PID field screenings

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

SITE SUPERVISOR Roy Rascon SIGNATURE Roy L. Rascon COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope
DATE 3/1/2006 TITLE Project Scientist



undisturbed junction box

7/11/2005

Vacuum Mack Energy EOL

Unit 'F', Sec. 7, T18S, R35E



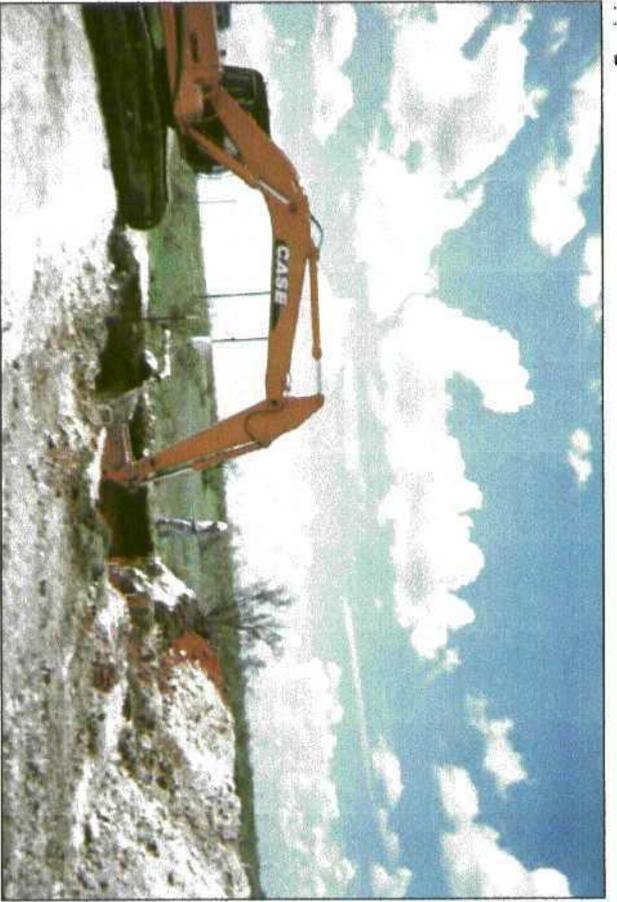
beginning excavation

8/16/2005



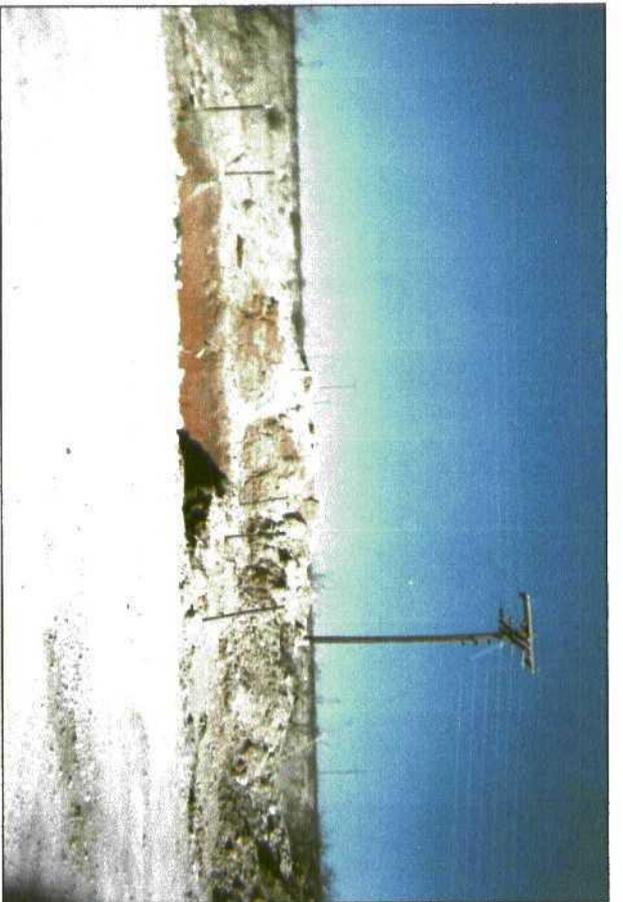
delineation & excavation

8/16/2005



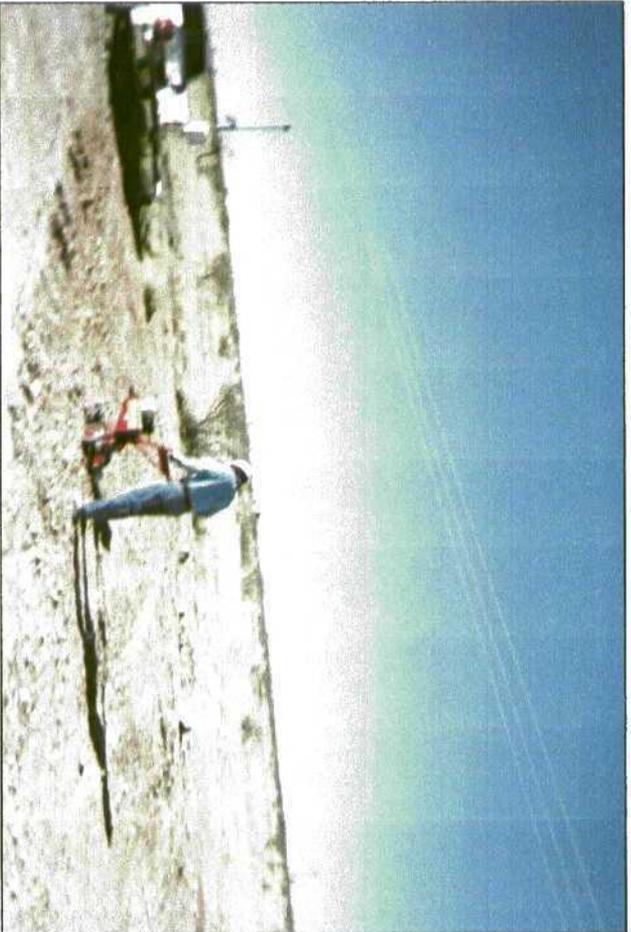
delineation & excavation

8/23/2005



excavation

8/29/2005



seeding disturbed surface

1/5/2006

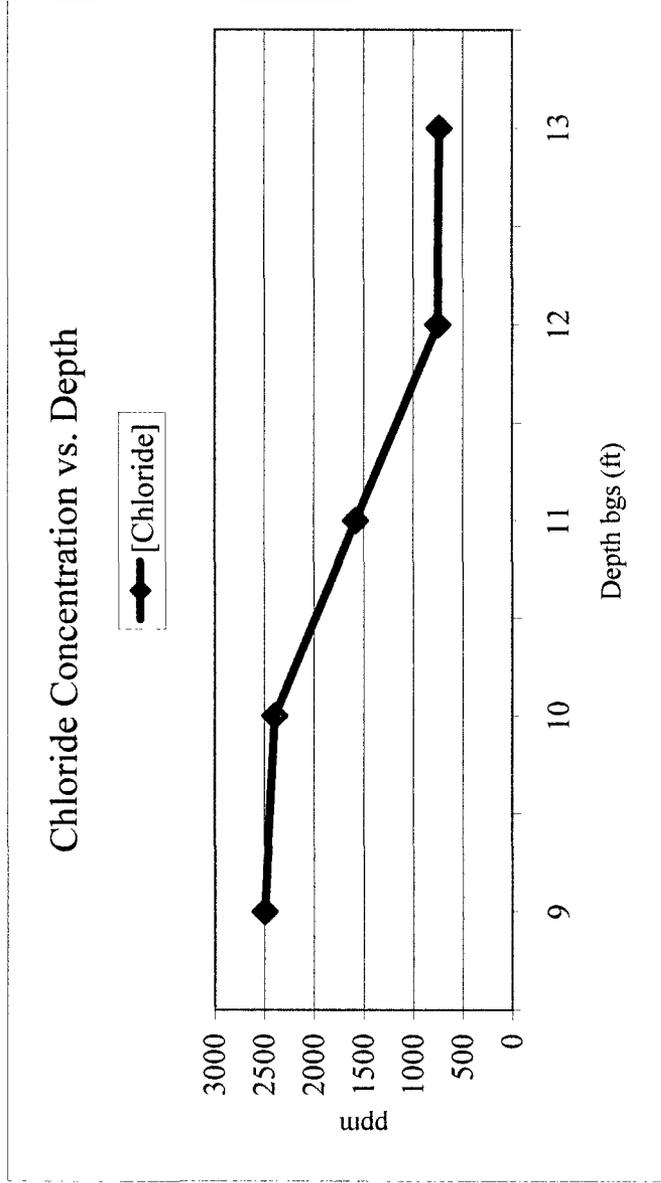
Vacuum Mack Energy EOL

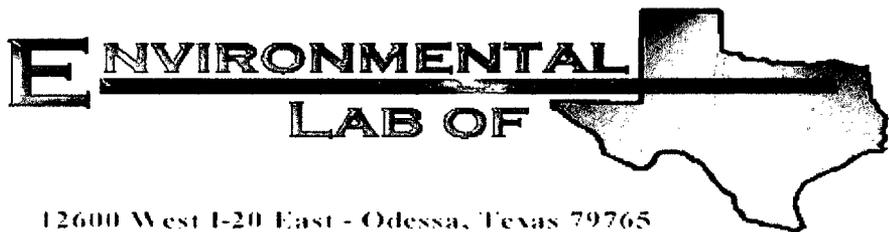
Unit 'F', Sec. 7, T18S, R35E

Vertical Delineation at Junction

Depth bgs (ft)	[Cl ⁻] ppm
9	2498
10	2396
11	1578
12	751
13	735

Groundwater = 85 ft





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

COPY

Project: Vacuum- Mack Energy Eol

Project Number: None Given

Location: None Given

Lab Order Number: 5H30002

Report Date: 09/01/05

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Vacuum- Mack Energy Eol Project Number: None Given Project Manager: Roy Rascon	Fax: (505) 397-1471 Reported: 09/01/05 13:21
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4-Wall Composite	5H30002-01	Soil	08/29/05 09:40	08/30/05 08:00
Remediate Backfill	5H30002-02	Soil	08/29/05 09:45	08/30/05 08:00
Bottom Composite@ 12'	5H30002-03	Soil	08/29/05 13:00	08/30/05 08:00

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

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Project Manager: Roy Rascon

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Reported:
09/01/05 13:21

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Wall Composite (5H30002-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH53003	08/30/05	08/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		83.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		104 %	70-130		"	"	"	"	
Remediate Backfill (5H30002-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH53003	08/30/05	08/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		93.0 %	70-130		"	"	"	"	
Bottom Composite@ 12' (5H30002-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH53003	08/30/05	08/31/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		89.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		88.8 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Wall Composite (5H30002-01) Soil									
Chloride	404	20.0	mg/kg Wet	2	EH53008	08/30/05	08/30/05	SW 846 9253	
% Moisture	8.6	0.1	%	1	EH53102	08/31/05	08/31/05	% calculation	
Remediate Backfill (5H30002-02) Soil									
Chloride	830	20.0	mg/kg Wet	2	EH53008	08/30/05	08/30/05	SW 846 9253	
% Moisture	10.7	0.1	%	1	EH53102	08/31/05	08/31/05	% calculation	
Bottom Composite@ 12' (5H30002-03) Soil									
Chloride	343	20.0	mg/kg Wet	2	EH53008	08/30/05	08/30/05	SW 846 9253	
% Moisture	10.6	0.1	%	1	EH53102	08/31/05	08/31/05	% calculation	

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 EH53003 - Solvent Extraction (GC)										
Blank (EH53003-BLK1)				Prepared & Analyzed: 08/30/05						
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	44.3		mg/kg	50.0		88.6	70-130			
Surrogate: 1-Chlorooctadecane	46.7		"	50.0		93.4	70-130			
LCS (EH53003-BS1)				Prepared & Analyzed: 08/30/05						
Gasoline Range Organics C6-C12	409	10.0	mg/kg wet	500		81.8	75-125			
Diesel Range Organics >C12-C35	424	10.0	"	500		84.8	75-125			
Total Hydrocarbon C6-C35	833	10.0	"	1000		83.3	75-125			
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	70-130			
Surrogate: 1-Chlorooctadecane	51.2		"	50.0		102	70-130			
Calibration Check (EH53003-CCV1)				Prepared: 08/30/05 Analyzed: 08/31/05						
Gasoline Range Organics C6-C12	468		mg/kg	500		93.6	80-120			
Diesel Range Organics >C12-C35	484		"	500		96.8	80-120			
Total Hydrocarbon C6-C35	952		"	1000		95.2	80-120			
Surrogate: 1-Chlorooctane	57.1		"	50.0		114	0-200			
Surrogate: 1-Chlorooctadecane	59.3		"	50.0		119	0-200			
Matrix Spike (EH53003-MS1)				Source: 5H30002-01		Prepared & Analyzed: 08/30/05				
Gasoline Range Organics C6-C12	465	10.0	mg/kg dry	547	ND	85.0	75-125			
Diesel Range Organics >C12-C35	436	10.0	"	547	ND	79.7	75-125			
Total Hydrocarbon C6-C35	901	10.0	"	1090	ND	82.7	75-125			
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	50.2		"	50.0		100	70-130			
Matrix Spike Dup (EH53003-MSD1)				Source: 5H30002-01		Prepared & Analyzed: 08/30/05				
Gasoline Range Organics C6-C12	466	10.0	mg/kg dry	547	ND	85.2	75-125	0.215	20	
Diesel Range Organics >C12-C35	446	10.0	"	547	ND	81.5	75-125	2.27	20	
Total Hydrocarbon C6-C35	912	10.0	"	1090	ND	83.7	75-125	1.21	20	
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			

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

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Project Manager: Roy Rascon

Fax: (505) 397-1471

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09/01/05 13:21

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 EH53008 - General Preparation (WetChem)										
Blank (EH53008-BLK1)					Prepared & Analyzed: 08/30/05					
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EH53008-MS1)					Source: 5H29006-01 Prepared & Analyzed: 08/30/05					
Chloride	1960	20.0	mg/kg Wet	1000	1080	88.0	80-120			
Matrix Spike Dup (EH53008-MSD1)					Source: 5H29006-01 Prepared & Analyzed: 08/30/05					
Chloride	1980	20.0	mg/kg Wet	1000	1080	90.0	80-120	1.02	20	
Reference (EH53008-SRM1)					Prepared & Analyzed: 08/30/05					
Chloride	5000		mg/kg	5000		100	80-120			
Batch EH53102 - General Preparation (Prep)										
Blank (EH53102-BLK1)					Prepared & Analyzed: 08/31/05					
% Solids	100		%							
Duplicate (EH53102-DUP1)					Source: 5H29014-01 Prepared & Analyzed: 08/31/05					
% Solids	98.5		%		98.5			0.00	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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

Project: Vacuum- Mack Energy Eol
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Notes and Definitions

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: _____

9/1/2005

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.

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If you have received this material in error, please notify us immediately at 432-563-1800.

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

Client: RICE DP

Date/Time: 8/20/05 8:00

Order #: 5H30002

Initials: CK

Sample Receipt Checklist

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

Other observations:

Variance Documentation:

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

Corrective Action Taken:

RICE OPERATING COMPANY

30 x 20 x 12 ft

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

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE
AIR

100 PPM

BALANCE

LOT NO: 04-2747

FILL DATE: 2-1-05

EXP. DATE: 8-1-06

ACCURACY: ± 2%

METER READING

ACCURACY: 100

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Vacuum	meck energy EOL	F	7	185	35E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
4- Wall Composite	0.8		
Penetration Backfill	1.2		
Bottom Composite	0.3		

COPY

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

[Signature]
Signature

5-29-05
Date