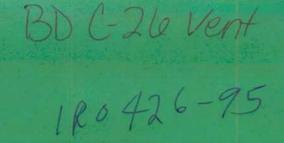


REPORTS

DATE: 7/09/2004



FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

					BOX LOC	ATION					
	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	MENSION	S - FEET]
	BD			26	21S	37E	1.00	Length	Width	Depth	7
	ы	vent C-26	С	26	213	3/2	Lea	ma	oved 120 ft	East	1
	LAND TYPE: E	BLM	STATE	FEE LA	NDOWNER	Delro	ose Scott	OTHER		······	
	Depth to Grour	ndwater	61	feet	NMOCD	SITE ASSE	SSMENT	RANKING S	CORE:	10	
	Date Started	6/7/	2004	Date Cor	npleted	6/23/2004		Witness		No	
;	Soil Excavated	267	cubic yar	ds Exc	avation Le	ngth <u>30</u>	Width	20	Depth	12	_feet
	Soil Disposed	0	cubic yar	ds Off	site Facility	n	/a	Location		n/a	
FII	NAL ANALY	TICAL F	RESULTS	S: Sample	e Date	6/8/2004, 6/ 6/11/20	/9/2004, 004	Sample De	pth	12, 19 ft	

Procure 5-point composite sample of bottom and 4-point composite sample of 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	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SOURCE @ 19 ft	<0.005	< 0.005	< 0.005	<0.015	<10.0	<10.0	368
BOTTOM @ 12 ft	< 0.005	< 0.005	0.054	0.421	23.3	958	624
4-WALL COMP.		PID =	5.6 ppm		<10.0	<10.0	128
REMED. BACKFILL		PID =	396 ppm		11.5	575	272

General Description of Remedial Action: This junction box contained a vent

and has been replaced with a new watertight junction box 120 ft East. The old box site was delineated and excavated with a backhoe while chloride field tests and PID screenings were conducted at regular intervals. Chloride concentrations exhibited conclusive vertical and lateral declines, indicating non-saturated vadose conditions (see graph). NMOCD BTEX and TPH guidelines were met. The 30 x 20 x 12-ft-deep excavation was backfilled with the blended, excavated soil to 6 ft BGS. At 6 ft, a 1 ft compacted clay barrier was installed to allow remaining TPH to naturally attenuate (see diagram). The excavation was backfilled with the remaining soils and contoured to the surrounding terrain. The disturbed surface will be seeded with a blend of native vegetation and will be monitored for growth.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical @	8	1690
junction	9	1576
	10	3949
	11	2849
	12	2140
	13	1856
	14	2546
	15	903
	16	674
	17	486
	18	421
	19	318
bottom comp.	12	564
4-wall comp.	n/a	145
remed. comp.	n/a	226

enclosures: chloride graph, photos, lab results, clay test, PID field screenings, diagram

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

SITE SUPERVISOR	Joe GattsSIGNATURE	Jor Das		Operating Company
REPORT ASSEMBLED BY	Kristin Farris Pope	SIGNATURE	Knistin starris) Pope
DATE	7/9/2004	TITLE	Project Scientist	/

BD C-26 vent

new plumbing at new box site 120 ft east of former

Nº C

7/23/2003

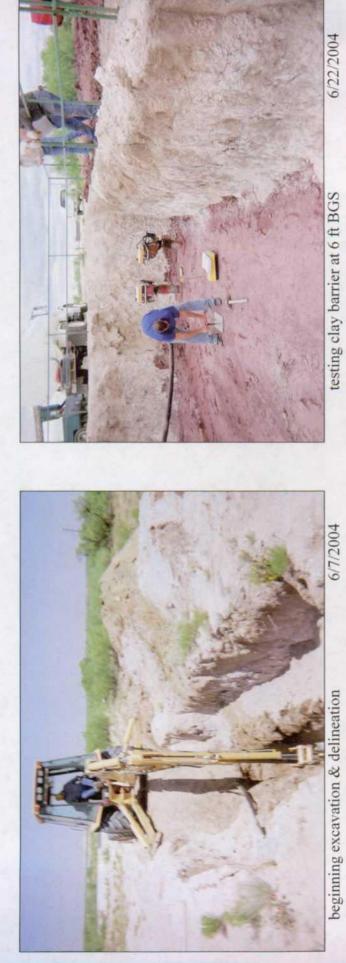
undisturbed junction box

9/5/2003



completed new junction box

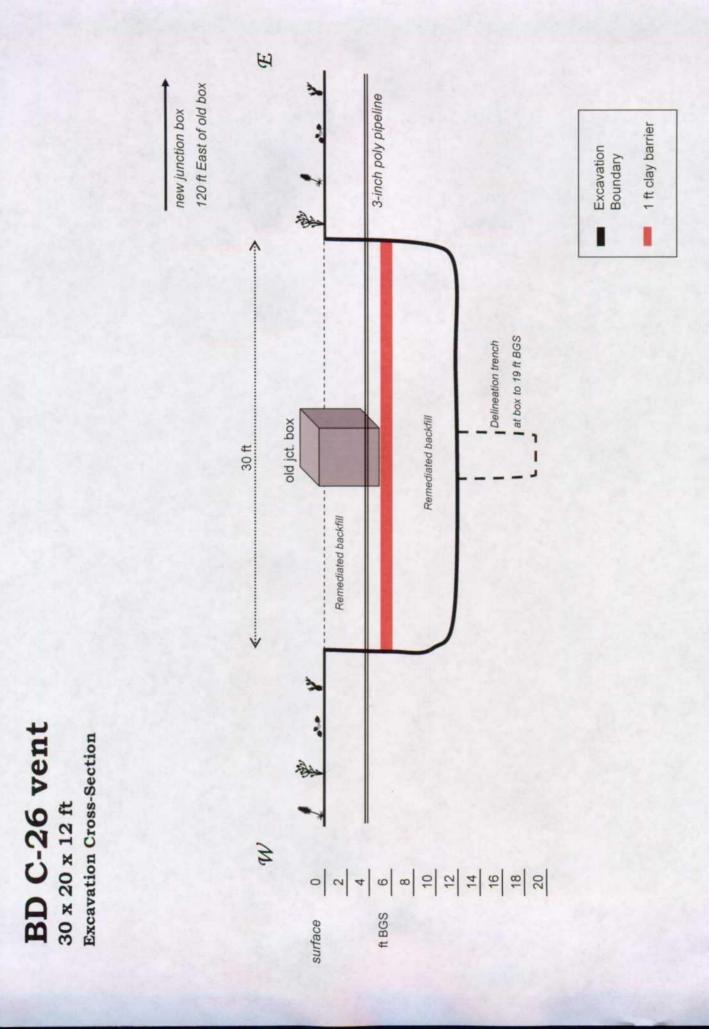
unit 'C', sec. 26, T21S, R37E



backfilled site; clay ID plate on surface

10/29/2004

1

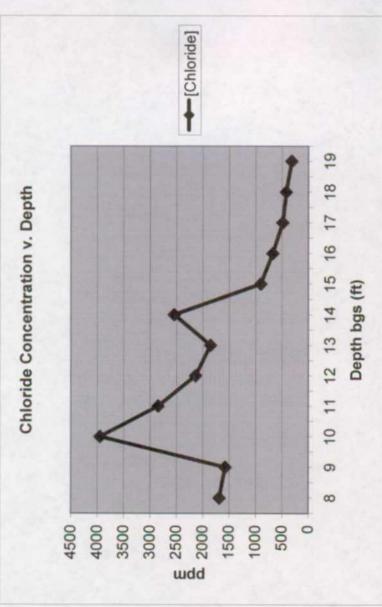


RICE Operating Company

BD C-26 vent T2IS, R37E

Vertical Delineation at Source

Groundwater = 61 ft





PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 802

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: J. GATTS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 393-1471 JUN 1 5 2004

Receiving Date: 06/10/04 Reporting Date: 06/11/04 Project Number: NOT GIVEN Project Name: C-26 Project Location: BD Sampling Date: 06/08/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC?AH

LAB NUMBER SAMPLE ID	GRO (C₀-C₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE	06/10/04	06/10/04	06/10/04
H8810-1 SOURCE @ 19' BGS	<10.0	<10.0	368
Outlifu Control		702	1000
Quality Control	804	793	1020
True Value QC	800	800	1000
% Recovery	101	99.2	102

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analysis performed on a 1:4 w:v aqueous extract.

1.6

Al Aloth

Relative Percent Difference

6/11/04 Date

1.1

1.0

H8810A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidines, affliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: J. GATTS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 393-1471

Receiving Date: 06/10/04 Reporting Date: 06/11/04 Project Number: NOT GIVEN Project Name: C-26 Project Location: BD

Sampling Date: 06/08/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBE	ER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS [DATE	06/10/04	06/10/04	06/10/04	06/10/04
H8810-1	SOURCE @ 19' BGS	< 0.005	< 0.005	< 0.005	< 0.015
Quality Cont	rol	0.106	0.103	0.102	0.305
True Value (C	0.100	0.100	0.100	0.300
% Recovery		106	103	102	102.0
Relative Per	cent Difference	2.7	3.0	8.1	11.1

METHOD: EPA SW-846 8260

Buy auf a Combe

6/11/bx

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All clarge including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service¹ without been shall cardinal be liable for incidental or consequential damages, including, whether such class interruptions, loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

J	- ARDINAL LARORATORIES INC	UN N									CHA	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	ΙΟΟΥ	AND ANA	TYSK	S REQ	UEST	
	2111 Beechwood, Abilene, TX 79603 (815) 573-7001 Fax (815) 573-7020	X 79603 73-7020		1 Em 05) 31	it Mai 03-23	fand, 26 Fa	Hobt Sõt	5 . N 1 393	101 East Marfand, Hobbe, NM 88240 (505) 393-2326 Fax (506) 393-2476	540						ž	. 8	
Company Name:	Rue approxime						\square			UU:	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ANALYSIS REQUEST	s req	UEST		~~
	d batts							P.O. #										
Ï	2 W. Textor							Company:	oany:									
à, A	Ś		:dīz	88	02233	3		Atti:										
Phone #: 793	-9174 Fax #:							Address:	:856		-							
Project #:	- 1	ü						CHy:										
Project Name:	<u> 2 io</u>							State:		2	2]p:							-
Project Location:	<u>13 D</u>							Phone #:										
Sampler Name:	J. Untto							Fax 6:						51				
FOR LABUSE ONLY		į	┝─	\vdash		MATRIX]	F	PRESERV.	ľ.	SAMPLING	DND		0 ý				
													x	3				
Lab I.D.	Sample I.D.				ABTAN								訂	Ηó				
			CONT	NUOR	VASTEV	טור פסור	JOONT	CID/BA	00/30	: Aaht(DATE	TWF	źΙ	PI 17			- -	
<u>H\$SID-1</u>	Surve at 19' bas				1			-		-	612/04	9:05	× - -	×	\downarrow		╞	-
							ŀ	-	1	<u>}</u>	1 2 1 2 1			 	. 			1
						┝╍┤			\square									
			+					÷	1				-				-	
			┿		╋	+-	+	+	1	┿			+				+	- <u>-</u>
			┝╍┼		┼╌┼			┼╌┥	\square	$\left \right $								
			+				_	-	1	+			+					
			+		+		+	+		+-			-		·			
PLEASE NOTE: Labidy and Da andrees. At chine Installing Sour- publics. It as source that Conjust	LASE NOTE. Laberty and Demogra. Cardinal's leading and Clearly exchanic franchy for any chain angreg whether based in Contract on Early and Initial to Un above. A data has hadded and in regions and any other eause stationers and be deemed whend online names in writing and recorded with 30 days after state. It is no sure for the data to be hadded with other equate stationers and a data mands in writing and recorded with 30 days after	A artistic units distante maria	And Tak		Les al		19 19 19 19 19 19 19 19 19 19 19 19 19 1			part by the client in of the applicable	based in contrast or tort, shall be inniced to the amount part by the client for the filles and received by Cardinal while 30 days after compiletion of the applicable		Terra and the second se	Terres and Conditioners Interest will be charged on all accounts more than 30 days part das at the rate of 24% per annum from the original data of a	be charged o per annum §	n al accounts r on the original	none than date of Invoica,	-
officies of successing adding of af or Samralar Rail notified add	restored in the presence of several secondary, manual mendant of or related to the performance of sevicus housever by Cardina, repute a.d.	on. Methode deterrightone, Jone of Lan, or Jone of profile & deter of whether wurth chains is based upon any of the ab-		j)		25	R tour	5 J 5 J	dert, hi abridarias. Tresers et atlantise.	Į			and all costs	8	attorney's to			6
		-										Phone Result: Fax Result:	97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Relinentshed Bv-			r.									REMARKS	: ک			4		
1 2 A	- 6/10/04				<u> </u>		Ż					NAKO		NLUG JOCK CETU-			,	
Delivered By: (Circle One) Sempler - UPS - Bus - Other:	5	-	+		E E	Sample Condition			Checked By: (Initiata)		-	50	Non H	-				
+ Cardinal can	Cardinal cannot accept verbal changes. Please fax written change	tten chai		6	1 673	ne to (915) 673-7020.	₽	_]]							



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 ·

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: J. GATTS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 393-1471

Receiving Date: 06/11/04 Reporting Date: 06/14/04 Project Number: NOT GIVEN Project Name: C-26 Project Location: BD

True Value QC

Relative Percent Difference

% Recovery

	_
101 E. MARTAN EHOPES, MISBRAG & EN	
JUN 1 6 2004	
RICE OPERATING HOEDS NM	

Sampling Date: 06/09/04 & 06/11/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC/HM

1000

102

1.0

	ER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS	DATE	06/11/04	06/11/04	06/14/04
H8821-1	BOTT. COMP. @ 12' BGS	23.3	958	624
H8821-2	4 WALL COMP.	<10.0	<10.0	128
H8821-3	REMD. BACKFILL	11.5	575	272
Quality Con	trol	804	793	1020

800

101

1.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B *Analyses performed on 1:4 w.v aqueous extracts.

yest A Cooh

6/14/04

800

99.2

1.1

Date

H8821A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: J. GATTS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 393-1471

Receiving Date: 06/11/04 Reporting Date: 06/14/04 Project Number: NOT GIVEN Project Name: C-26 Project Location: BD Sampling Date: 06/09/04 & 06/11/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	06/11/04	06/11/04	06/11/04	06/11/04
H8821-1 BOTT. COMP. @ 12' BGS	<0.005	<0.005	0.054	0.421
Quality Control	0.104	0.107	0.101	0.295
True Value QC	0.100	0.100	0.100	0.300
% Recovery	104	107	101	98.2
Relative Percent Difference	1.5	3.8	0.5	3.6

METHOD: EPA SW-846 8260

Run eto Ar Cosh

6/14/04 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, instructing these for negigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. The event Shan Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Ø	-								-	CHAIN	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	STOD	YAN	D ANA	LYSI	S REC	DUES	
Y	ARDINAL LABORATORIES, INC. 2111 Beechwood, Abbene, TX 79603	83	101 Ea	ist Ma	irfand	Hobi	N.	101 East Marfand, Hobbe, NM 88240	\$. • •	
Company Name:	Rive D		505)	393-2	328 Fi	89 X	5) 383	(505) 393-2328 Fax (505) 393-2476	1.11.6.2.4.2				▲	ANALYSIS REQUEST	REQI	Legit	8	٦
Project Manager:	5.60						P.O. #						F	-			F	Γ
Address: 122	W. Taylor						Company:	:Xum										
City:	State:	ž					Attn:										<u></u>	
Phone #:	Faxet						Address:	;**				,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Project #:	Project Owner:						Chy:		x									
Project Name:	C-24						State:		21p:				<u></u>					
Project Location:	BD						Phone #:	#										
Sampler Name:	5. Thurts						Faxe					51						
FOR LAB USE ONLY		-	Ľ		MATRUX		F	PRESERV.	<u> </u>	SAMPLING	Ş	0,			,			
		.9MO(8 +		7				
Lab I.D.	Sample I.D.) AG 8A	TAWQNU	TEWATE		390	NBV2E: EK :	COOL	ਂ ਖ਼ਤ			10)	17	31				
1-10051		ষ(চ) ,	-		0ור 201	2075	HTO	1 301	PTHI PTHI	DATE	TIME	-	5	er	_		1	Т
	5	<u>ما</u>	+		X	1	+	X	173	+	02:20	X	$\frac{1}{k}$		┥		t	T
1 1	Princend	3	1	-	t		+	4	5	170	10.E	X	k	+				Ť
			+	1	+	1	┿	र	22	1011	4:42	X	X	+				T
					+	1	+	1	-					-				
			$\left - \right $		┝╌┤		$\left - \right $											
		4	+	1	+	1	+	1	_					-	-+-			
			+	1	+		+	1	_		•		+					
							$\left \cdot \right $						┼╌┨					\square
anjour. Al daime including the anten. In me annet abul Candia	regiones. Al chimes including them surrangingeneous an environmentation and the standard without and and an and surveyores. Al chimes including them for antightences and we obtain causar visioneer shall be standard and and a anticos. In the event that Candinal to jobb for backband or connectuated damages, including without including, backard and and		need at cu filing and two prices, has		uence st caracter of cort, side to entrop to the an Mile and received by Cardinal with 30 days after cor system, less of use, at less of profits branned by client,	state to article of which 30 days of prodes broanned	15	ş (i	, peut by the client of the In of the applicable Deideriae,	ŝ			and Condition Is partic due al costs of collect	Terms and Canditional: Friterist will be Charged on M Accounts From Frai 20 Gapts part data the faste of 2545, per servicent from the original data of it and all costs of calibrations, including althornist's them.		Thanged on Mi accounts more main annum from the original data of Invica may's taos.	ts more man inel delse of in	ş
ampler Relinquis	fiction of accounts, which not a first to be performent of service horowite by Conduct ingenders of which we had a first service had a first servi				10	Į	91	sers er otherri	arts.		Phone Result	ſ	T Yes	I Mol			ł	ſ
	Time:	<u>-</u>		•							Fax Result REMARKS:		D Yes	°¥ □				
talinquished By:	At Deter U/1/04	+			Received By: (Lab Staff	E				T								
Delivered By: (C	Circle Orie) 1 0, 05			Sample) uogipu	1											
Sampler - UPS - Bue - Other:	us - Other:			2 Hue	끧	Yes		tials)		-								
t Cardinal car	† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.	change	€ to (5	15) 6	73-702	Ģ												

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: 02-22-30				
EXP. DATE: 11/20/09				
METER READING				
ACCURACY: 100,1 -				

100 PPM	
BALANCE FILL DATE:	5/20/03
ACCURACY:	tox - 270

SERIAL NO: 104412

		•		**-		_
SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	
BD	6-26	Ç	26	zl	37	
	، میں میں میں میں 	a ang ang ang ang ang ang ang ang ang ang	- ** *	 · - -		
SAMPI	LE PIL	RESULT	SAMPI	E PID	RESULT	
10'N.WA	922	4.1				
10'5. WA	22 :	5,6				
15'F. WI	1	3.1	<u> </u>		······································	
15 U. U.	. 1	2,1				
Batt. Compatility 307			~ 			
REMD. BA	1	96	<u> </u>			
4 WALL C	omp 3	.6				
		· · · · · · · · · · · · · · · · · · ·	j			

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

ignature

6/11/04

Date

FINOLINE SUDA		LABORATORY TEST R PETTIGREW & ASSOC 1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827		ASHTO RIB DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.
То:	Rice Operating Attn: Carolyn Haynes 122 W. Taylor		Material:	Red Clay
	Hobbs, NM 88240 $\mathcal{B}\mathcal{D}$		Test Method:	ASTM: D 2922
Project:	C-26			
Date of Test:	June 22, 2004		Depth:	Finished Subgrade
Test No.		Location	Dry Density % Maximum	% Moisture Depth

96.9

Pit - 10' N. & 10' W. of the SE Corner

SG-1

I	ECEIVEN			
h	JUL 0 6 2004			
RICE OPERATING HOBBS, NM				

19.6

Control Density	: 109.5 ASTM: D 698	Optimum Moisture: 16.6
Required Comp	action: 95%	
Lab No.:	04 7279-7280	PETTIGREW & ASSOCIATES
Copies To:	Rice	BY: enerset.
	Asrad Juary 505	7613