## 1R - 426 - 186

## REPORTS

### DATE:



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1R426-180

### RECEIVED MAR 2 5 2009 Dil Conservation Division

#### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOCA	TION						
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS -	FEET		
Blinebry-Drinkard	Jct. I-18-1	1	18	225	37E	Lea	Length	same location			
L	l	I	l		1	1					
LAND TYPE: BLMSTATE_XFEE LANDOWNEROTHEROTHER											
Depth to Groundwater 125 feet NMOCD SITE ASSESSMENT RANKING SCORE 10											
Depth to Groui		120	leet	NNOCL	5 SHE ASS		MAINNING S				
Date Started	7/25	/2007	Date Cor	mpleted	6/5/2008		Witness	no			
Soil Excavated	7	cubic var	rds Exc	avation Te	enath 5	Widt	h 3	Depth	12 feet		
Con Expanded		00510 yu					······································				
Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a											
FINAL ANALYTICAL RESULTS: Sample Date 7/25/2007.6/5/2008 Sample Depth 12 ft. 40 ft											
TPH, BTEX and Chloride laboratory test results completed by using an approved lab and											
testing procedures pursuant to NMOCD guidelines.											
Samala	Bonzo	ne Toluer		Total Vid	anac G	RO I	DRO	Chlorides			
Location	mg/k	g mg/k	g mg/k	g mg/k	ig mg	g/kg	mg/kg	mg/kg			
SOURCE 12' GRAI	3	PID	= 10.8 (field)		<1	0.0	<10.0	752			
SOIL BORING 15' BO	GS <0.01	0 <0.01	0 <0.01	0 <0.03	30	na series in Andre State		368			
SOIL BORING 40' BO	GS 🚺			st. State				160			
Canaral Departmention of	f Domodial	Actions									
General Description d	n Remedia	Action.	This junction	was addres	sed under th	e	CHLOR	IDE FIELD	TESTS		
pipeline replacement/up	grade progra	am. A new, v	vatertight jun	ction box was	s built in plac	e 👝					
of the former. After the	former box v	vas removed	, an investiga	ation was cor	iducted using			DEPTH	mg/kg		
backhoe to collect soil samples at regular intervals producing a 5x3x12-ft-deep hole. 15' 433											
Chloride field tests were performed on each sample. Organic vapors were also measured soil horing 10 20' 333											
using a PID, which yield	ed low conce	entrations. Th	ne deepest s	ample, 12 ft	BGS, was se	ent ft	north of the	25'	228		
to a commercial laborate	ory for analy	sis. On 7/25/	/2007, the sit	e was seede	d with a blen	d of	junction	30'	167		
native vegetation and is	expected to	return to a pi	roductive cap	acity at norm	nal rate. To		(source)	35'	224		
further investigate depth of chloride presence, a soil boring was initiated on 6/5/2008 at 10 40' 247											
ft north of the former jun	iction. The b	oring was ad	vanced to 40	) ft BGS while	e soil sample	s were colle	ected every 5 ft	and tested for	or chloride		
concentrations. The 15	and 40 ft sa	mples were a	analyzed by a	commercial	laboratory fo	or chloride,	which yielded lo	ow concentrat	tions.		
		,_ <u>.</u>			· <u>·</u>						
								ingo boring de			
				-	enciosures: pr	lotos, lab res	uits, PID screen	ings, boring da	ata, chioride curv		
							<u> </u>				
I HEREB	Y CERTIFY	THAT THE	INFORMAT	TION ABOV	'E IS TRUE	AND COM	IPLETE TO T	HE BEST O	FMY		
DEDÓRT			KNC	WLEDGE /	AND BELIE	F.					
ASSEMBLED BY	Katie Jone	s INI	fial KS	COMPANY		RICE	E OPERATING	COMPANY			
	orn/ Bruco Do	kor Ir				R.	P.L.	2.	<u> </u>		
SHE SUPERVISOR	аггу вгисе Ва	Ker Jr.		SIGNATURE	_ xam	mul	Daner 1	MI			

SIGNATURE	Larry	Bruce	Baher	an,
	0			,
TITLE			PROJECT LE	EADER

DATE 1-20-09

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## BD Jct. I-18-1

Unit I, Section 18, T22S, R37E



undisturbed junction box, facing north

2/15/2006







7/17/2006



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: ROY R. RASCON 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471



Receiving Date: 07/25/07 Reporting Date: 07/26/07 Project Number: NOT GIVEN Project Name: BD JCT I-18-1 Project Location: BD JCT I-18-1 Sampling Date: 07/25/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	07/26/07	07/26/07	07/25/07
H12981-1 BOTTOM 12'	<10.0	<10.0	752
			<u>.</u>
Quality Control	743	749	490
True Value QC	800	800	500
% Recovery	92.9	93.6	98.0
Relative Percent Difference	1.4	2.9	<0.1

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

Buy ets A Cothy Chemist

2ED)

#### H12981 RICE

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, toss 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.

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f. Cardinal cannot scrept harbai changes. Please fax written changes to (325) 673-7020.

#### RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



MODEL: PGM 7600 MODEL: PGM 7600 MODEL: PGM 7600 MODEL: PGM 7600 SERIAL NO: 110-013676 SERIAL NO: 110-013744 SERIAL NO: 110-12383 SERIAL NO: 110-012920



GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 06 - 3079	EXPIRATION DATE: 5/03/08
FILL DATE: 11/03/06	METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BO	Jct I-18-1	I	18	225	37E

5 N of Source			
SAMPLE ID	PID	SAMPLE ID	PID
1	20.7		
2	34.7	·	
3	23.4		
4	22.1		
5	21.6	,	
6	19.0		
7	1.6		
8	14.5		
9	12.0		
10	16.7		
))	6.3		
12	10.8		

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE:

Bruce Baher

DATE: 7-25-07





ANALYTICAL RESULTS FOR **RICE OPERATING COMPANY** ATTN: HACK CONDER **122 WEST TAYLOR** HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 06/06/08 Reporting Date: 06/06/08 Project Number: NOT GIVEN Project Name: BD JCT. I-18-1 Project Location: BD JCT. I-18-1

LAB NO.

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JUN 112008 RICE OPEHATING HOBBS, NM

Analysis Date: 06/06/08 Sampling Date: 06/05/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

CL (mg/kg)

H14938-1	SB #1 @ 15'	368
H14938-2	SB #1 @ 40'	160
Quality Control		490
True Value QC		500
% Recovery	·	98.0
Relative Percer	nt Difference	< 0.1
	· · · · · · · · · · · · · · · · · · ·	

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

SAMPLE ID

4500-CI'B

Bust Augusto

06/09/08

#### H14938 RICE

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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: HACK CONDER 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

JUN 112008 RICE OPERATING

HOBBS, NM

Receiving Date: 06/06/08 Reporting Date: 06/09/08 Project Owner: NOT GIVEN Project Name: BD JCT. I-18-1 Project Location: BD JCT. I-18-1 Sampling Date: 06/05/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: CK/AB

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	06/06/08	06/06/08	06/06/08	06/06/08
H14938-1 SP #1 @ 15'	<0.010	<0.010	<0.010	<0.030
		l		
				·
Quality Control	0.047	0.052	0.058	0.170
True Value QC	0.050	0.050	0.050	0.150
% Recovery	93.5	105	115	113
Relative Percent Difference	2,6	7.3	5.5	4.1

METHOD: EPA SW-846 8260B

Chemist

06/10/08

#### H14938B RICE

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	101 East Marland, Hobbs, NM (505) 393-2326 FAX (505) 35	88240 2111 Beec 3-2476 (325) 673-	hwood, 7001 FA	U Abilene, X (325)6	,长 796 373-7020	03								
Company Nam	<ul> <li>Rice Operating Company</li> </ul>		222.23		BILL	<b>70</b> 10 10 10	200			AN	ALYSIS	REQUEST		Γ
Project Manage	r: Hack Conder			°.0. #:										
Address: 122	West Taylor			company	:		[ ]							
city: Hobbs	State: N	M Zip: 88240		\ttn:										
Phone #: 393-	9174 Fax #: 39	7-1471	_	Address:										
Project #:	Project O	wner:		City:										
Project Name:	BD jct. I-18-1			state:	Zip:		X	səl	<u>.</u>					
Project Locatio	n: BD jct. I-18-1			hone #:			(3.							
Sampler Name:	Lara Weinheimer			ax #:			<u> </u>							
FOR LAB USE ONLY		M	ATRIX	PRESE	ERV. SA	MPLING	{ T	10	<u></u>					
Lab I.D.	Sample I.D.	с) RAB OR (С) ОМР. СОИТАІИЕRS ВООИ ПОЧАТЕR VASTEWATER	ירחםפב אר אר מור	DE \ COOF 'CID\BV2E: LHEK :		T T T T T		)						
H1938-1	SB #1 @ 15'				6/5	/08 09:20	>	>			 			Ţ
-2	SB #1 @ 40'	(c 1		>	6/5	/08 09:25		>						
								. 						
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Relinquished B	ing out of or related to the performance of services hereun.	ter by Cardinal, regerdless of wheth   Received B.V.:	ier such claim is l	nased upon an	y of the above s	tated reasons or other	wise. Result:	λ	N D	Ade	'i Phone #·			ſ
Lara	Veinheimer	Se July	h h h	Ja	t	Fax Res REMARI	KS:			Add	Fax #:			
Relinquished B	y: Date: Time:	Received By:		}	>	emai	l res	ults						
Delivered Bv	: (Circle One)	Samp Cool	le Conditio	- CH	ECKED BY (Initials)	Hcor	nhei	@rice mer@	swd.c	om; ji wd.c	ourvis@ om	riceswd.co	а;	
sampler - UPS	- Bus - Other:		es L lo L No	2	1001									
† Cardinal	cannot accept verbal changes. Pl	ease fax written cha	nges to 5(	5-393-24	476									ļ

lot accept verbal changes. Please fax written changes to 505-393-2476 

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	Logger:	La	ara Weinheimer & Darnell Mitchell	CI	ient:		Well ID:
	Driller:		Harrison & Cooper Drilling		RICE Operation	ng Company	
Drilling Method:			Air rotary & split spoon		oject Name		
Start Date:			6-5-08		BD jct.		
1	End Date:		6-5-08	Lc	cation:		SR _ 1
Comm	Located 1	0 ft no	rth of the former jct. box site		BD SWD	System	00-1
				u	nit 'l' Sec.18	T22S, R37E	ļ
THE REPORT OF THE PARTY OF	TD = 40 ft	C) (1899) TO 1997 (1997) FR	GW = 125 ft	- 1944 - 1976 - 1976	Lea Cour	nty, NM	
Depth (feet)	chloride field tests	PID	Description		Lithology	Sc Con	oil Bore struction
· · · · ·				_			)
Lab	368		10 - 20 ft				
15	433		FINE TO VERY FINE SAND				
			some reck light brown dry				
}			some rock, light brown, dry				
	222						
			20.25.4	-			
							-
			VERY FINE TO FINE SAND				
25	228		yellowish-orange, dry	-			bentonite
							plug .
			25 - 35 ft				
30	167		VERY FINE TO FINE SAND				
			some rock, light brown, dry				
35	224						
		_	35 - 40 ft				
Lab	160		VERY FINE TO FINE SAND				
40	247		vellowish-orange dry			207.2	] [

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CHLORIDE CONCENTRATION CURVE

# RICE Operating Company

# BD Jct. I-18-1

Unit 'I', Sec. 18, T22S, R37E

Backhoe samples at 10 ft north of junction (source)

[Cl <sup>i</sup> ] ppm	433	333	228	167	224	247
Depth bgs (ft)	15	20	25	30	35	40



Groundwater = 125 ft