1R -

REPORTS

DATE.



IR 423-24

Justis Jct D-2 2009

RECEPTED

APR - S 3199 Environamental Bureau Oil Conservation Miticlos

÷

DISCLOSURE

RECEIVED

APR - 6 2010

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

Environmental Bureau

				BOX LOCA	TION			Conse	enation	<u>n:</u> ,
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIME	NSIONS		
1 -11-		_	2	25S	37E	Lea	Length	Width	Depti	n
Justis	Jct. D-2	D	2	205	3/2	Lea	el	iminated		
LAND TYPE:	BLM	STATE_X_	FEE LAI	NDOWNER						
Depth to Grou	ndwater	80	feet	NMOCE	SITE ASS	ESSMENT	RANKING SCO)RE:	20	
Date Started	6/9/2	2009	Date Co	mpleted	7/8/2009		Witness	no)	
Soil Excavated	177.8	cubic yar	ds Exc	cavation Le	ngth <u>20</u>	Width	i <u>20</u> [Depth	12	feet
Soil Disposed	48	cubic yan	ds Of	fsite Facility	Siund	dance	_ Location	Euni	ce, NM	
NAL ANALYT	ICAL RE	SULTS:	Sample	e Date 6/2	6/17/200 22/2009, 7/	,	Sample Dept	n 12	ft, 20 ft,	80 ft

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

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	3.2	<10.0	211	240
5PT BOTTOM COMP.	6.3	<10.0	32.3	1,810
BLENDED BACKFILL	2.1	<10.0	<10.0	128
SB #1 @ 20'	0.2	<10.0	<10.0	5,760
SB #1 @ 80'		<10.0	<10.0	1,120

General Description of Remedial Action: This junction box was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals creating a 20x20x12-ft deep excavation. Each sample was field tested for chlorides which yielded elevated concentrations. Organic vapors, measured using a PID, yielded low concentrations. The excavated soil was blened on site and representative composite samples were collected from the blended backfill, the bottom of the excavation and the excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH, comfirming low concentrations of TPH and slightly elevated concentrations of chloride in the bottom composite. The blended backfill was returned to the excavation up to 5 ft below ground surface (BGS). A 5 ft-deep shelf was excavated extending 5 ft from the north and south walls to prepare the surface for a clay barrier. At

5-4 ft BGS, the 1-ft thick clay barrier was installed with a compaction test performed on

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	927
bottom comp.	12'	1601
blended backfill	n/a	584
background	6"	133
	15'	1,020
	20'	4,856
	25'	1,446
	30'	. 658
	35'	354
SOIL BORING	40'	444
at 8 ft	45'	287
northwest of the junction	50'	466
(7/8/2009)	55'	737
	60'	839
	65'	722
	70'	647
	75'	1,080
	80'	1,055

7/1/2009. The remaining fill was returned to the excavation to ground surface and contoured to the surrounding area. On 7/2/2009, the site was seeded with a blend of native vegetation and is expected to return to a produtive capacity at a normal rate. To further investigate depth of chloride presence, a soil boring was initiated on 7/8/2009 at 8 ft northwest of the former junction box. The soil bore was advanced to 80 ft BGS with soil samples collected every 5 ft and field tested for chloride concentrations. The 20 and 80 ft samples were sent to a commercial laboratory for analysis of chloride and TPH which confirmed elevated concentrations of chloride and low concentrations of TPH. The entire borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 3/4/2010.

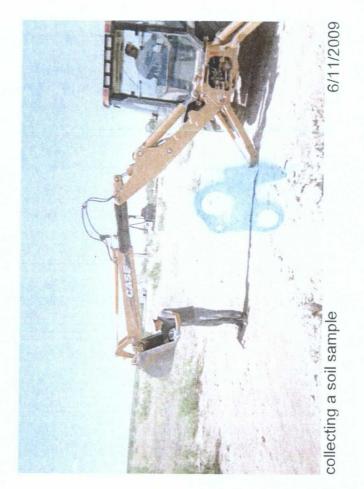
ADDITIONAL EVALUATION IS HIGH PRIORITY

	enclosures:	photos, boring log, lal	o results, PID (fi	eld) screenings, cr	ross-section, co	mpaction test, chloride curve
	EBY CERTIFY THAT			TRUE AND CQN		IE BEST OF MY
	Jordan Woodfin		TEDGE AND I		COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Katie Jones		49	/		
	Larry Bruce Baker, Ir	SIGNATURE	Adres Parces	Caber 6.		3-6-10

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

Justis Jct. D-2 Unit D, Section 2, T25S, R37E





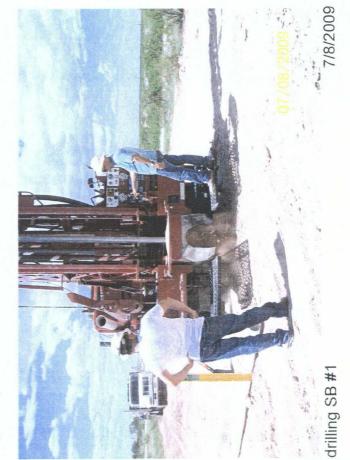
Page 1 of 2

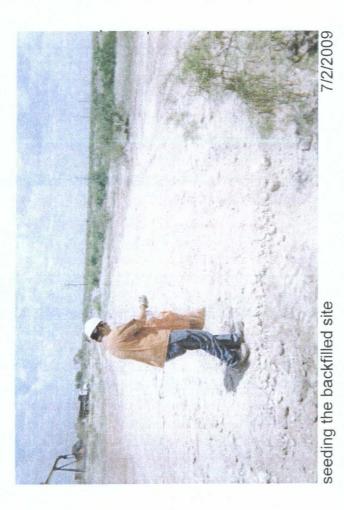


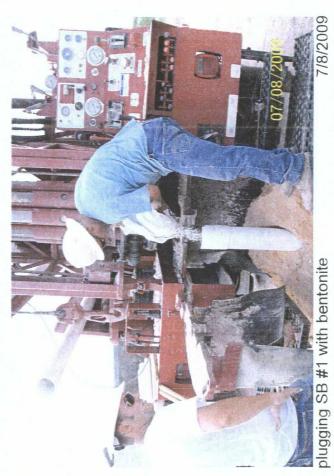


clay compaction test

7/1/2009







	Logger:	1	Lara Weinheimer	Client:		Well ID:
	Driller:	}	Harrison & Cooper, Inc. Drilling	RICE Operatin	g Company	
Drillin	g Method:		Air rotary	Project Name:		
	Start Date:		7-8-09	Justis jo	t. D-2	
_	End Date:		7-8-09	Location:		SB - 1
Comm		8 ft norti	n-west of former jct. box site	JUSTIS SW unit 'D' Sec.2 T		
	TD = 80 ft	_	Estimated depth to GW = 80 ft	Lea Cour	ity, NM	
Depth (feet)	chloride field	PID	Description	Lithology		oil Bore struction
15 20 LAB 25	1020 4856 5760 1446	0.1 0.2 DRO < 10 GRO < 10 0.2	10 - 15 ft VERY FINE TO FINE SAND sandstone rock, orangey-brown, dry 15 - 20 ft VERY FINE TO FINE SAND sandstone particles, dark orangey-brown 20 - 25 ft VERY FINE TO FINE SAND brownish-orange, slightly moist 25 - 30 ft			
30	658	0.1	VERY FINE TO FINE SAND consol. rock, brownish-orange, Isightly moist			
35	354	0.2	and the second s			
40	444	0.1	CO [×]			
45	287					bentonite
50	466		30 - 80 ft VERY FINE TO FINE SAND brownish-orange, slighly moist			seal
55	737					
60	839					
65	722					
70	647					
75	1080					
80	1055					
80 LAB	1055 1120	DRO < 10 GRO < 10				Į.



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

Receiving Date: 07/10/09 Reporting Date: 07/13/09 Project Owner: NOT GIVEN Project Name: JUSTIS JCT. D-2 Project Location: JUSTIS JCT. D-2 Sampling Date: 07/08/09 Sample Type: SOL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB/HM

LAB NUMBER SAMPLE ID

	DKO	GRO
CI*	(>C ₁₀ -C ₂₈)	C ₅ -C ₁₀)
(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE 07/10/09 07/10/09 07/10/09 5,760 H17779-1 SB #1 @ 20' <10.0 <10.0 H17779-2 SB #1 @ 80' <10.0 <10.0 1,120 598 598 490 Quality Control 500 500 500 True Value QC 98.0 % Recovery 120 120 2.0 19.6 18.3 Relative Percent Difference

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

2-114/09

H17779 TOL RICE

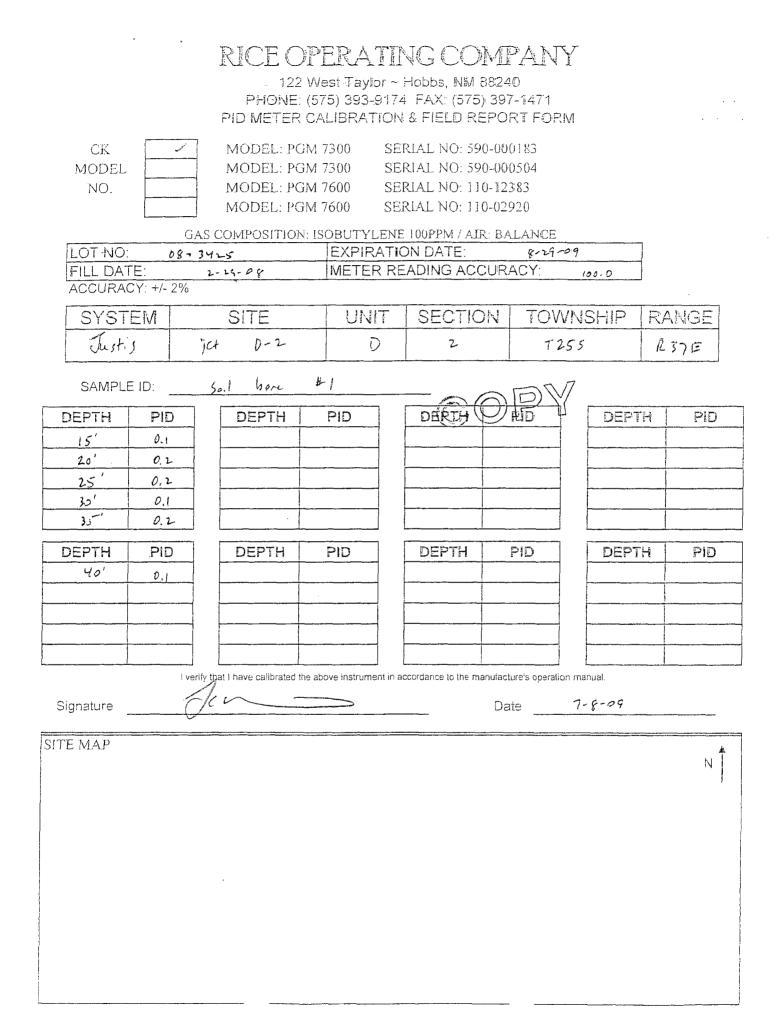
PLEASE NOTE; Liability and Damages. Cardinal's riability and plient's exclusive remedy for any plaim arising, whether based in contract or tort, shall be limited to the amount paid by plient for analyses. All plaims, including those for negligence and any other cause whatspeers whatspeers whatspeers and a in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be librated to the performance of services hereunder by Cardinal, without limitation, ousliness interruptions, loss of use, or toss of profits incurred by client, its subsidiarles, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of used dam is based upon any of the above-stated reasons or otherwise. Results relate only to the samples mention dowe, this export shall not be reproduced except in full with written approval of Cardinal capitolates.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326 FAX (505) 393-2476	AX (505) 393-24		(325	() 67	(325) 673-7001		AX (325)	673-	FAX (325)673-7020													
Company Name:	Rice Operating Company	ıpany				ł				BILL	LL TO	0					AN	ANALYSIS	1	REOUES.	1S.			
Project Manager:	_							P.O.	ŧ				\vdash	<u> </u>	-	-		; 				ŀ		
Address: 122 West Taylor	<u>Vest Taylor</u>							Con	Company:											<u> </u>				
city: Hobbs		State: NM	Zip: 8	882	8240			Attn:																
Phone #: 393-9174	174	Fax #: 397-1471	71					Add	Address									(
Project #:		Project Owner:						city:							- TAI			E	((
Project Name: Justis jct. D-2	istis jct. D-2							State:			Zip:		sə 		ر 2	-1d.	1 1	$\frac{1}{2}$	<u> </u>			(
Project Location: Justis jct. D-2	Justis jct. D-2							Pho	Phone #:)		21	2		
Sampler Name: Lara Weinheimer	ara Weinheimer							Fax #:	#						18 0 L						7			
FUR LAB USE ONLY						MATRIX	×		PRESERV.	ERV	SAM	SAMPLING					<u></u>							
Lab I.D.	Sample I.D.	ġ.	ЧМО(D) ЯО ВАЯ(D)	CDOUTRINERS	ROUUDWITER RETEWETER	SOIL		ОТНЕЯ :	ICE / COOF VCID/BV2E:	: REHTO	DATE	E TIME	And the second			<u></u>				····				
S 1-1.1.1.11	SB #1 @ 20'			-		>			>	<u> </u>	7/8/09	9 03:10	10				╞				-	-	1	ł
S 7.	SB #1 @ 80'		5	-		>	_				71810	ļ	101											
			5			>			>		60/8/1	9 03:58	> 2C	>										
				+										_										
				1											_	_						}		
				+																				
					+		$\left \right $										_				_			
PLEASE NOTE: Liability and I	PLEASE NOTE: Udufity and Damages. Cardinals fixedity and chem's exclusive remedy for any claim at	cht's exclusive remedy for an	v cłain		whether	based it				finited t	o the amount	sive Mechan based in conflicant or fact. Shall be finited to the amound read by the clicinal fac the	ficant tool the	_	_		_	_	_					
analyses. An channal including service. In no event shall Cara affiliates of successors' arising	andpress. An duttice including those for heightered and any other cause whatkoever shall be deemed waved unless made in writing and received by Cardinal within 30 days. After completion of the applicable ervices. In one can shall contradict the consequential advages, including without limitation, business instructions of the study and the advages of the advages of a standard resplicable offlaces as vaccessory alively of up of the advages of the advages of the advaged the study can be advaged from any of the advaged from and not more and individual advaged to a vaccessory alively of the advaged from and any of the advaged from any of the advaged from advag	cause whatsoever shaft be do quental damages, including v ot services hereunder by Ca	cened without rdinal, e	varved limitatio egardie	n husin n, husin ss ot wf	ade in v ess Inter ether su	nting an uptions, chiclain	t receive loss of u is based	ed by Ca Se, of lo tunon at	rdinal wi se uf pre iv of the	ithin 30 days aftis incurred above state	after complete thy client, its s ed feasons of p	ton of the appl subsidiaries otherwise	ic able										
Relinquishou By:		Date:	Rec	Received By	d By							Plion	Phone Result		<u>1) Yes</u>	No No	Ade	Add'l Phone #	e #:					
L./Wei	. Weinheimer	Time:										REM	REMARKS:	כ	5	DN I	AOC	I FAX F						
Relinquished By:		Date:	Rec	Received By	a p							em	email results	ults										
		Time:		$\overline{)}$	\geq	- ,		\mathbb{C}	Ś	\searrow			-			_			(
Delivered By: (Circle One)	(Circle One)				Sample	ple of	ample Condition	uo	£	IECKED	CHECKED BY:		Hconder@riceswa.com; jpurvis@riceswa.com;	Ĕ)	Sesw ()	d.co	іт Е -	NUC	s@r	IcesM	/d.co	E		
Sampler - UPS -	- Bus - Other:				300	N SS S	n s Ses			Ľ.		Š 	rweinneimer@riceswa.com	lallie		esw	a.co	Ε						
† Cardinal c	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	changes. Please	fax	writt	en cl	ange	is to	505-3	393-2	476				f	(

NEED SAMPLES BACK, PLEASE







ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 83240

Receiving Date: 06/22/09 Reporting Date: 06/26/09 Project Number: NOT GIVEN Project Name: JUSTIS JCT D-2 Project Location: JUSTIS JCT D-2

.

Sampling Date: 06/17/09 & 06/22/09 Sample: Type: SOIL Sample: Condition: COOL & INITACT Sample: Received By: ML Analyzed By: AB/HM

GRO

(C₅-C₁₀) (>C₁₀-C₂₃) C.I* (mg/kg) (img/kg) (img/kg)

ORO

LAB NUMBER SAMPLE ID

ANALYSIS (DATE	06/25/09	06/25/09	06/23/09
H17680-1	5PT BTM COMP.	< 10.0	32.3	1,810
H17680-2	4 WALL COMP.	<10.0	211	240
H17680-3	BLENDED BACKFILL	<10.0	<10.0	128
Quality Cont	ro!	528	574	490
True Value (20	500	500	500
% Recovery		105	115	98.0
Relative Per	cent Difference	2.5	3.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI': Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Surrogates for GRO/DRO outside historical limits due to matrix interference.

H17680 TOL RICE

PLEASE NOTE: Liability and Damages. Cardinal's lability and blient's exclusive remedy for any plaim ansing, whether based in contract or fort, shall be limited to the amount paid by client for analyses. All plaims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services that cardinal be identicable for incorential or conservations analyses, including, without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansing out-of or related to the enformance of services hared one of whether such claim is based upon any of the apove-stated reasons or otherwise. Results related to the cardinal or performance of services based up or the tampes dentified to be produced accept or full with writen approval of Cardinal cabinatores. CHAIN-OF-CUSTODY AND ANALYSIS REQUEST JUDEDFING RICESUD. CON JPURVISE RICE SUD. COM EMAIL REFULTS to BRAKERE RICESUND. COM ANALYSIS REQUEST WSIBQ 3.6.5.45 field: field in the analysis stability and diarity stability and the priori and up when the dimeter of any shall be finded to the annual pair by the distribution of the 3.6.5.45 field. Examples the annual pair by the distribution of the annual stability and testing and the annual pair by the distribution of the annual stability and testing and the annual pair by the distribution of the annual stability and testing and the annual pair by the distribution of the annual stability and testing and 3 с 7 10-25-00-72-0, 1. S. F. 1 5-22 60-22-0 TIME SAMPLING 60-11-0, BILL TO DATE 101 East Marland, Hobbs, NM 88240 2111 Beachwood, Abilene, TX 79603 () (1) CHECKED BY: (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 Zip: : REHTO PRESERV Company: Address: 1000 / 301 Phone #: > 7 P.O.#: State: Fax #: Attn: ESABIOIDA City: Sample Condition Cool Intact Fe Yes Ves No No : AEHTO SLUDGE MATRIX OIF State: //// Zip: 88 240 105 とく 2 Received By: AET.AWET2.AW Date: 22-Con Received RETAWONUORO CONTRINERS # JURINAN NO DEVIN 3MO(D) 90 3AB(D) cler Justus Jet D-2 Project Owner; **ARDINAL LABORATORIES** Time: 11:0/07 Justic Jet Dunipany Name: RICE OPERATINE Project Manager: Jakerwy Woorry Fax #: Time: Date: Backf. Sample I.D. COND. Address: 122. W. 7AVLOR Juna NUTURA WOODFIN Sampler - MPS - Bus - Other: Delivered By: (Circle One) F Blm tsperded Phone #: 393-9124 المطلل City: HOEBS 50 Project Location: Relinquished By: Relinquished By 26 Sampler Name: Project Name: 1-08/01/14 הטה נהם נוכב טוננון Lab LD ÷. Project #:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

RICE OPERATING COMPANY

122 West Tayor Hobbs; NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



Model: PGM 7300 Model: PGM 7300 Model: PGM 7300

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504

Check Model N	umber:	
000183		
000508		
000504		

Model: PGM 7600 Model: PGM 7600 Model: PGM 7600

Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08.3425	EXPIRATION DATE: B - 29 - 09
FILL DATE: 2-29-08	METER READING ACCURACY: 00.

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Justis	D-2	\square	2	255	37E
(<u>ppm===pp.pp,</u> 1		<u> </u>	<u> </u>	<u> </u>	<u>Louise - 1,77, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</u>

SAMPLE ID	PID	, SAMPLE D	PID
West Wall	1	Bleudes Bacthill	2.1
South Wall	1.7		
North Wall	7	\bigcirc	
EAST Wall	1.7		
4 Wall Comp	3.2		

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

SIGNATUE

Inclan Woods

DATE: 10-22-09

RICE OPERATING COMPANY

122 West Tayor Hobbs; NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD-REPORT FORM

Check Model Number:

Γ	
	\checkmark

Model: PGM 7300Serial NModel: PGM 7300Serial NModel: PGM 7300Serial N

.

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504 Model: PGM 7600 Model: PGM 7600 Model: PGM 7600

Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPERATION DATE: 9-29-09
FILL DATE: 2.29-08	METER READING ACCURACY: 00

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Justis	D-2	\mathcal{D}	Z	255	37 <i>e</i>

SAMPLE ID	PID	SAMPLE ID	PID
SAMPLE ID 5pt Bottom Comp	6.3		
		$\overline{\mathbb{A}}$	
		U U	
			·····
		······································	

I verify that Lhave calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATUE:

loudan Woo

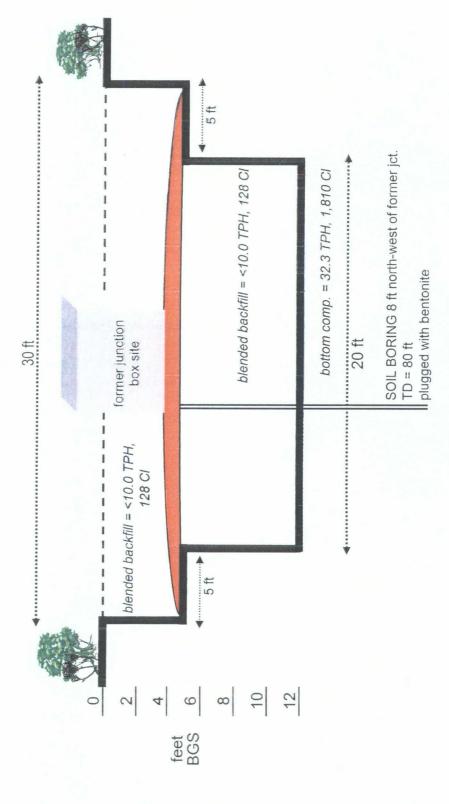
DATE: 10-10-09

Justis Jct. D-2 Unit 'D', Sec. 2, T25S, R37E

Excavation Cross-Section

Z





5

aneuro al al	PETTIGREW & ASS 1110 N. GRI HOB8S, NM ((575) 393-94	MES 38240	DEBRA J	AGHTO RIA DEBRA P. HICKS, P.E.J. S.I. WILLIAM ME HICKS, III, P.E./P.S		
To:	Rice Operating Compалу Atta: Bruce 122 W. Taylor Hobbs, NM 88240	Material: Test Method:	Cooper Red Clay ASTM: D 2922			
Project: Date of Test:	Justice Junction D-2 Project No. 2009.1145	Depth:	See Below			
	July 1, 2009	Depui.	ora deicm			
		Depth of Prob	e: 12"			
Test No.	Location	Dry Density % Max	% Molsture	Depth		
SG 1	Justice Junction D-2 - 8' E, & 15' S. of NW Come	0.09	15.1	FSG		
Control Density:	100.4 ASTM: D 698	Optimum Mole	turə: 21.6%			
Raquirad Compacti	วด: 60-95%	Densometer ID	B15 PETTIGREW & ASSOCI	ATES		
Lab No.:	09 4073-4074	:	Gontin Ho			
Copies To:	Rice Operating	QV.	TANG MAL	ゴ		

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

\$ • •

Justis Jct. D-2 Unit 'D', Sec. 2, T25S, R37E

SOIL BORING samples at 8 ft northeast of the junction (source)

(CI) ppm	1,020	4,856	1,446	658	354	444	287	466	737	839	722	647	1,080	1,055
(Depth bgs (ft)	15	20	25	30	35	40	45	50	55	60	65	70	75	80

