1R - 425-242

REPORTS

DATE:

Jet BD J-25 EOL 2009

RECEIVED

ДРО - 6. 2000

Environmental dureau Oil Conservation Division

1R426-242

CLOSURE

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		ال	UNCTIO	ОИ ВОХ	FINAL.	REPOR	₹Т				APD	- 6	2กาก
			1	BOX LO	CATION	N.				En	Vironne		2 /11/1 Bureau
SWD SYSTEM JU	NCTION	UNIT SE		TOWNSH		NGE	COUN	ITY	BOX DI	MENSIGNS	PEEL	ontal	Bureau
Dlinghou Drinkord	25 EOL		25	218		37E	Lea		Length	Width	Den	NOTA	Division
(BD)	23 EOL	, <u> </u>	20	213	`	5/ -	Lea	<u> </u>		Eliminated			****(,7(,1
LAND TYPE: BLM	ST/	ATE I	FEE LAN	NDOWNE	R	Wallac	ch Rand	ch	_OTHER				
Depth to Groundw	ater <u>no</u>	ne feet		NMOC	D SITE	ASSE	SSME	NT RA	NKING S	CORE:	0		
Date Started	9/9/200) D	ate Con	npleted_	11/6	3/2009	0	CD Wi	tness	n	0		
Soil Excavated	400.0	cubic yards	Exc	avation	Length _	30	v	Vidth	30	Depth	12	_feet	
Soil Disposed	196	cubic yards	Offs	site Facil	lity	Sunda	ance		Location	Eun	ce, NM		
	ure 5-point o	LTS: omposite sar	mple of	e Date _ bottom a	nd 4-po	1/04/09 int com	posite	- sample	e of sidewa	Ills. TPH		& 12	ft.
and o	monde labor	diory lead rec		ent to NM				idD diii	a testing pi	oceaures			
Sample Location	PID (field) ppm	GRO mg/kg		DRO mg/kg	,	Chloride mg/kg			CHLOR	IDE FIELI) TEST	s _	
SB#1 @ 30'	1.5	<10.0		<10.0		5900		LOC	CATION	DEPT	Н	mg/kg]
SB#1 @ 54'	1.4	<10.0		<10.0		8600	_	4-wa	ill comp.	n/a		1174	.]
4-WALL COMP.	1.7	<10.0		<10.0		1170	7	botto	m comp.	12'		2579	\neg
BOTTOM COMP.	2.1	<10.0		<10.0		2600		Bac	kground	6"		206	\neg
BLENDED BACKFILL	n/a	<10.0		<10.0		368				15'		2706	
									Ì	18'		3627	
										21'		3446	
										24'		3831	
General Description of	Remedial A	ction: This	junction	was elim	inated u	nder the	'		[27'		3520	

G pipeline replacement/upgrade program. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x30x12-ft deep hole. Each sample was field tested for chlorides and organic vapors. Field chloride tests yielded elevated chloride concentrations that did not relent with depth. Representative composite samples were sent to a commercial laboratory for analysis. The excavated soil was then blended on site and returned to the excavation to 5 ft. BGS. A one foot thick clay layer was installed and compaction test performed. The remaining blended backfill was returned to the excavation to ground surface and contoured to the surrounding area. To further investigate the depth of chloride presence, a soil boring was initiated on 11/04/2009 10 ft. east of the

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1174
bottom comp.	12'	2579
Background	6"	206
	15'	2706
	18'	3627
	21'	3446
Soil bore 10 ft.	24'	3831
	27'	3520
	30'	5470
	33'	1050
	36'	2802
junction box	39'	600
	42'	3169
	45'	3471
	48'	4305
	51'	1506
	54'	2127

former junction box site. The boring was advanced to 80 ft. BGS, while soil samples were collected every 3 ft and tested for chloride concentrations and organics. At 30 ft and 54 ft BGS, the soil samples were sent to a commercial laboratory for analysis. The groundwater data suggested that water would be encounter at approximately 35 ft. BGS. At 57 ft. BGS the soil lithology changed to chinle red bed clay and bore was advanced to 80 ft. BGS. The bore hole was left open and after 48 hrs no moisture content was detected when gauging bore hole. The entire bore hole was plugged with bentonite to ground surface. On 11/25/2009, site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. enclosures: photos, lab results, compaction results, PID (field) screenings, soil bore log, bore hole condition report, cross-section, chloride graph

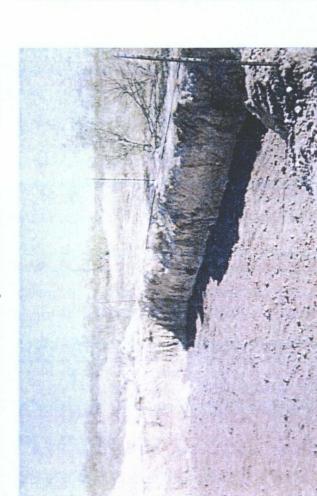
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR _	Eric Garrison	SIGNATURE	not available	COMPANY_	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Larry Bruce Baker Jr.	INITIAL_LAS			
PROJECT LEADER _	Larry Bruce Baker Jr.	SIGNATURE HANNE	Bruce Balci An	DATE_	3-3-10

BD J-25 EOL



Delineation trench at former junction box



Clay layer complete





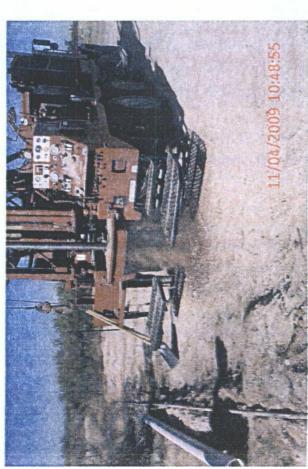
Excavation complete





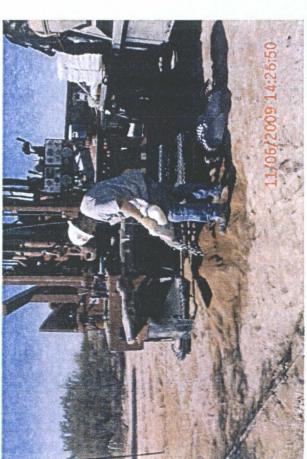
11/02/2009

BD J-25 EOL



Soil Bore #1





Plugging soil bore with bentonite

11/06/2009

Unit J, Section 25, T21S, R37E



Measuring for groundwater after 48 hrs.



Seeding site

Logger: Lara Weinneimer Harrison & Cooper, Driller: Inc. Drilling N/A - ROC junction Consultant: box upgrade plan Drilling Method: Air rotary Start Date: 11/4/2009

11/4/2009

48 hours to check for goundwater. Located 10 feet east for former jct. box.

End Date:

Comments:

BD jct. J-25

Frm. jct boxes Inactive Lines 0 30 60 Feet

BD J-25 EOL

All samples from cuttings. Drilled to 80 feet and left open for

DIE OFERATING GOARD

Project Name: BD J-25 EOL Well ID:

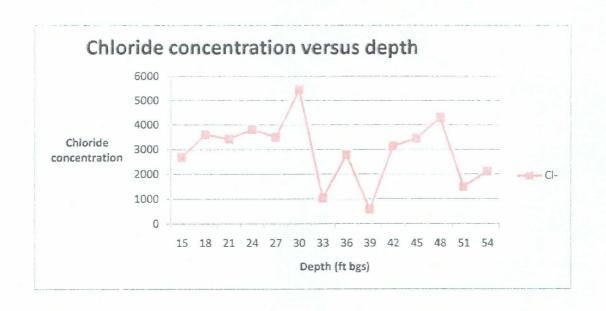
SB #1

Location: UL/J sec. 25 T21S R37E

	TD = 8		ted by: L	ara Weinheimer GW = none	Lat: 32°26'46.322"N County: Long: 103°6'49.902" W State: N	
Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
				12 - 15 ft		
				VERY FINE TO FINE SAND; CALICHE & SANDSTONE		
15	2706		1.9	light orangey brown, dry, no odor		
				15 - 21 ft		
18	3627		1.7	VERY FINE TO FINE SAND; CALICHE & SANDSTONE		
				orangey brown, dry, no odor		
21	3446		2			
				21 - 24 ft		
				VERY FINE TO FINE SAND		
24	3831		2.1	slight crangey brown, dry, no odor		
27	3520		2.1			
				24 - 36 ft		
30	5470	CI- 5900	1.5	VERY FINE TO FINE SAND; SANDSTONE	是一个一个 2	
		GRO <10.0	- 10	light brown, dry, no odor		
		DRO <10.0		1.79/01		
33	1050		1.2			
					0	

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
36	2802		1.8			
-						bentonite
39	600		3.4			seal
42	3169		1.8	36 - 57 ft		
	3,00			VERY FINE TO FINE SAND; SANDSTONE		
				reddish orange, dry, no odor		
45	3471		2.2	1 3/4/4	/	
48	4305		2.9			
				1, 5, 3,		
51	1506		0.7			
		CI-				
54	2127	8300 GRO	1.4			
		~10.0 DRO			•	
		<10.0				
57				57 - 80 ft		
				CLAY		
80				Chinie red bed clay		







HARRISON & COOPER, INC.

Drilling & Pump Professionals

7414 85th Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Ph: (806) 866-4026

Fax: (806) 866-4044

hamisoncooper-drillma.com

December 2, 2009

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

Attn:

Lara Weinheimer

RE:

BD J-25 EOL, Eunice, NM

Bore Hole Condition

To whom it may concern:

On November 4, 2009, Harrison and Cooper were contracted by Rice Operating to drill and sample a soil boring at the subject site. The soil boring was drilled to approximately 80 feet in an effort to determine whether or not a saturated interval existed. After a fouty-eight hour holdover time the moisture content at that depth was NON-detectable.

If any questions arise from this issue, do not hesitate to contact a representative with Harrison and Cooper.

Sincerely,

Kenny Cooper Operations Manager



Copies: File

Mail (Rice, Hobbs) Email (Lara Weinheimer)

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157. Austin, TX 78711, (800) 803-9202



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER 122 W. TAYLOR

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/04/09 Reporting Date: 11/09/09

Project Owner: NOT GIVEN

Project Name: BD J-25 EOL

Project Location: BD J-25 EOL

LAB NUMBER SAMPLE ID

Sampling Date: 11/04/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: AB

GRO DRO

 $(C_6 - C_{10}) (> C_{10} - C_{28})$ CI*

(mg/kg) (mg/kg)(mg/kg)

ANALYSIS DATE	11/06/09	11/06/09	11/06/09
H18648-1 SB#1 @ 30'	<10.0	<10.0	5,900
H18648-2 SB#1 @ 54'	<10.0	<10.0	8,600
Quality Control	590	591	500
True Value QC	500	500	500
% Recovery	118	118	100
Relative Percent Difference	11.3	15.0	<0.1

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

Chemist

CHAIN-OF-CUSTODY/AND/ANALYSIS/REQUEST

ARDINAL LABORATORIES
101 East Mariand; Hobbs, NM 88240 2111 Beechwood; Abilene, TX 79603 (505) 393-2326 EAX (505) 393-2476 (325) 673-7001, EAX (325) 673-7020

Company Nam Project Manage	Company Name: Rice Öperating Company Project Manager: Hack Conder		P.O. #:	9			F1 28 Xx	ANA	ANALYSISIREQUEST	REGI	JEST		
Address: 122	Address: 122 West Taylor		Company:							· • • • •			
City: Hobbs	State: NM	JM Zip: 88240	Attn:								···		
Phone #: 393-9174	9174 Fax #: 397-1471	37-1471	Address:		_								
Project #:	Project Owner:)wner:	City:		9	M	1	1					
Project Name:	BD J-25 EDL		State: Zip:		səl			1					
Project Location:	n: 30 J. 21 EOL		Phone #:)LIC	08	(3.						
sampler Name:	ampler Name: Lara Weinheimer		Fax #:		οjt		,						
FOR LAB USE CNLY		MATRIX	PRESERV SA	SAMPLING	10	-							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. #CONTAINERS WASTEWATER SOIL OIL	: ВЭНТО ЭСІD/BASE: JCOO√SOL ЭТНЕЯ:	DATE TIME)	1T	<u>1</u>						
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	Delivered By: (Circle One)		Sample Condition CHECKED BY:	ncolluci (@liceswa.com; Jpurvis(@riceswa.com;
	Sampler IBS Bus Other:		Gool Intact (Initials)	Lweinheimer@riceswd.com
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† Cardinal cannot accept verbal changes. Please fax written changes to 505;393;2476

BACK, PLEASE NEED SAMPLES

RICE OPERATING COMPANY

PHONE: (575) 393-9174 FAX: (575) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

CK MODEL NO.		MODEL: PGM MODEL: PGM MODEL: PGM MODEL: PGM	4 7300 SEI 4 7600 SEI	RIAL NO: 590-00 RIAL NO: 590-00 RIAL NO: 110-12 RIAL NO: 110-02	0504 383	
LOT NO FILL DA ACCURA	: 92	S COMPOSITION:	ISOBUTYLENE EXPIRATIO	100PPM / AIR: BA	Y-29-2012	
SYST	EM	SITE jut J-25	UNIT	SECTION 25	TOWNSHIF T215	RANGE R37 E
SAMPL		soil fore #		DEDIL	DID DE	DEL DID
DEPTH (5' (8' 21' 24' 27'	1.9 1.7 2.0 2.1	DEPTH 45' 48' 51' 54'	PID 2.2 2.9 0.7 1.4	DEPTH	PID DE	PTH PID
DEPTH 30' 33' 36' 37' 42'	PID 1.5 1.2 1.8 3.4 1.9	DEPTH	PID			PTH PID
Signature	l vefii	that I have calibrated the	above instrument in ac		ate <u>11-4-09</u>)
SITE MAP			1	COF		N T



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 122 W. TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 10/28/09

Reporting Date: 10/29/09 Project Owner: NOT GIVEN

Project Name: BD J-25 EOL (21-37)

LAB NUMBER SAMPLE ID

Project Location: BD J-25 EOL (21-37)

Sampling Date: 10/27/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: AB/HM

GRO DRO

CI* $(C_6 - C_{10}) (> C_{10} - C_{28})$

(mg/kg) (mg/kg)

(mg/kg)

ANALYSIS DATE	10/28/09	10/28/09	10/28/09
H18587-1** 5PT BTTM @ 12'	<10.0	<10.0	2,600
H18587-2 4 WALL COMP @ 30x30	<10.0	<10.0	1,170
Quality Control	435	452	500
True Value QC	500	500	500
% Recovery	87.0	90.4	100
Relative Percent Difference	5.3	4.7	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB

Chemist

^{*}Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

^{**}TPH second surrogate out of historical limits due to matrix interference.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

S. ARDINAL LABORATORIES 101 East Marland, Honbs, NM 86340 2111 Beachwood, Abilene, TX 78603

(505) 393-2326 FAX (505) 353-2476 (325) 673-7001 FAX (325)673-7020

		AMALYSIS REQUEST
Project Manager: B. Cucce B. B. Co. 15 e. 1.	P.O. #:	
20	Company:	
CHES 6 SHARE 11066 8 8401	Altn:	
124 Fax# (575)39	Address:	
- !	City:	
ne: 180 U-25 80	State: Zip:	
1")	Phone #:	
	Fax #:	
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) vardinal cannot accept Vernal changes. Please fax written changes to 505-393-2476

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88246 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD PEPORT FORM

	Check Mod	iel Number:		
*	 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: 110-013670

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 727 708 EXPIRATION DATE: 8 2 - 23 - 12

FILL DATE. 55 - 65 - 93 METER READING ACCURACY: 100 3 - 2

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
B10	J=35 80L		25	2.15	372

25 /7 CV TA

SAMPLEID PID SAMPLEID PID

2 0.2 5 FT STT n 0 12 2 1

4 0 4 WALL (Only 0 30 3 1, 7

6 0

8 0

10 0

13 0

COPY

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

SIGNATUE & LECT & L. DAMPT-

DATE 10 27.09



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 10/30/09 Reporting Date:11/04/09

Project Number: NOT GIVEN Project Name: BD J-25 (21-37) Project Location: BD J-25 (21-37)

LAB NUMBER SAMPLE ID

Sampling Date: 10/30/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB Analyzed By: AB/HM

GRO DRO

 (C_6-C_{10}) (>C₁₀-C₂₈)

(mg/kg) (mg/kg)

CI* (mg/kg)

ANALYSIS DATE	11/03/09	11/03/09	11/02/09
H18613-1 BLENDED BACKFILL	<10.0	<10.0	368
Quality Control	570	618	500
True Value QC	500	500	500
% Recovery	114	124	100
Relative Percent Difference	1.3	9.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CIT: Std. Methods 4500-CITB

*Analysis performed on a 1:4 w:v aqueous extract.

Reported on wet weight.

	ARDINA! ARORATORIES)	ACA FLOOR ARCHIONAL TACKS OF NICE DOUGH
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101 East Marland, Hobbs, NM 88240	(575) 393-2326 Fax (575) 393-2476

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PLEASE FOTE: Ushality and Dannayes. Candind's Vability and client's exclusive retriect for any claim arising whether based in contract or tool, shell be limited to the page and any other cases whatsever shall be deemed waked unless made in witing and received by Cardinal within 30 days after completion of the applicable savies. An other shall Candinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without limitation, business interruptions, loss of use is loss of profits incidental or consequential damages, including without limitation.

Egarrison Riceguelcon Sturvis O Riceswel.con ABakers Ricesun, com CHECKED BY: Sample Condition
Cool Intact

X Yes X Yes

No C No By: 10/340g Date: 4:330 Received By: Temp. Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

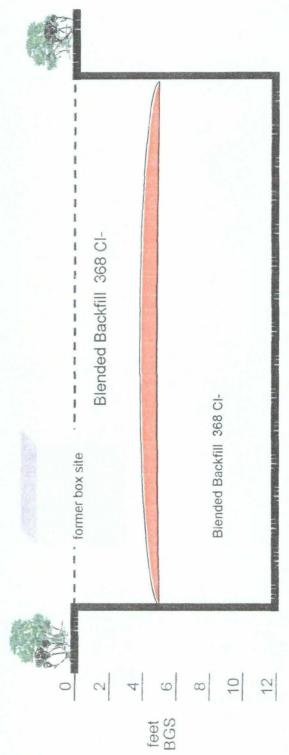
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Excavation Cross-Section

1

Excavation Boundary Clay Barrier No. of Lot

S





LABORATORY TEST REPORT PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES HOBBS, NM 88240 (575) 393-9827



To:

Rice Operating Company

Attn: Bruce 122 W. Taylor Material:

Wallach Red Clay

Hobbs, NM 88240

Test Method:

ASTM: D 2922

Project:

BD Junction 25 EOL 21-37

Project No. 2009.1260

Date of Test:

November 2, 2009

Depth:

See Below

Depth of Probe:

6"

Dry Density

Test No. % Max Location BDJC-25 EOL 21-37 SG 4 90.6

% Moisture 15.0

Depth 4' Below Surface

Junction J-25 EOL 21/37

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EEC 0 9 2009

RICE OPERATING HOBBS, NM

Control Density:

100.7

ASTM: D 698

Optimum Moisture:

20.7%

Required Compaction:

90%

Densometer ID:

5572

Lab No.:

09 7004-7005

Copies To:

Rice Operating

P.E.

PETTIGREW & ASSOCIATES

BD J-25 FOL

Unit 'J', Sec. 25, T21S, R37E

Soil bore samples 10 ft. east of former junction box

				-										
CII ppin	2706	3627	3446	3831	3520	5470	1050	2802	009	3169	3471	4305	1506	2127
epth bgs (ft)	15	18	21	24	27	30	33	36	39	42	45	48	51	54

Groundwater = none

