

1R – 426-170

**Disclosure
REPORT**

DATE:

July 13, 2009

1R426-170

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Blinebry-Drinkard (BD)	Jct. L-32-2 vent	L	32	22S	38E	Lea	Length	Width	Depth
							moved 100 ft northwest		

LAND TYPE: BLM STATE FEE LANDOWNER DK Boyd Oil & Gas OTHER

Depth to Groundwater no reportable groundwater per Nicholson and Clebach, USGS, OSE feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 9/25/2006 Date Completed 9/10/2008 OCD Witness no

Soil Excavated 400.0 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 24 cubic yards Offsite Facility Sundance Location Eunice, New Mexico

FINAL ANALYTICAL RESULTS: Sample Date 5/29/2007, 9/10/2008 Sample Depth 12 ft, 60 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.

CHLORIDE FIELD TESTS

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.4	<10.0	<10.0	1,230
BOTTOM COMP.	0.5	<10.0	<10.0	2,130
BLENDED BACKFILL	0.8	<10.0	<10.0	1,330
SOIL BORING @ 15'		<25.0	<25.0	4,000
SOIL BORING @ 60'		<25.0	<25.0	32

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1,059
bottom comp.	12'	1,479
blended backfill	n/a	1,067
SOIL BORING 9 ft north of former junction 9/10/2008	5'	478
	10'	3,194
	15'	1,410
	20'	2,839
	25'	2,456
	30'	1,336
	35'	1,134
	40'	757
	45'	193
	50'	229
	55'	173
	60'	181

General Description of Remedial Action:

This junction was addressed during the pipe-line 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. Chloride field tests were performed on each sample yielding elevated concentrations. Organic vapors were measured using a PID which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH. The excavated soil was blended on site and returned to the excavation up to 6 ft below ground surface (BGS). A 6-ft-deep shelf was excavated 5 ft out from the east and west walls to prepare the surface for a clay barrier. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was returned to the excavation and clean, imported soil was used as a top cap and to contour the site to the surrounding area. An identification plate was placed on the surface at the former junction site to mark the presence of the clay below. On 6/25/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. To further investigate depth of chloride presence, a soil boring was initiated on 9/10/2008 at 9 ft north of the former junction. The boring was advanced to a depth of 115 ft BGS with soil samples collected at regular intervals to a depth of 60 ft BGS. The 15 ft and 60 ft samples were analyzed by a commercial laboratory for chloride, yielding chlorides that decreased with depth to 32 mg/kg at 60 ft. The boring remained opened at a depth of 115 ft for 24 hours in effort to verify the presence of a saturated interval. After the 24 hour holdover period, the moisture content was non-detectable. The entire bore hole was plugged with bentonite to ground surface. A new, watertight junction box was built 100 ft northwest of the former. The consultants of Arcadis in Midland, TX have been assigned this project.

enclosures: photos, cross-section, lab results, PID (field) screenings, boring logs, GW letter, chloride graph

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

SITE SUPERVISOR Darnell Mitchell SIGNATURE Darnell Mitchell COMPANY RICE OPERATING COMPANY

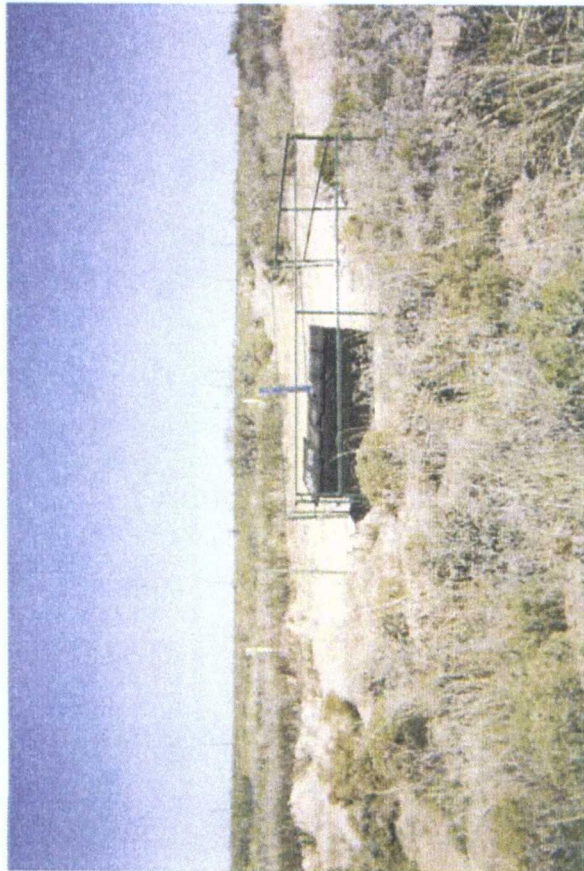
REPORT ASSEMBLED BY Katie Jones INITIAL

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 7-13-09

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

BD Jct. L-32-2 EOL

Unit L, Section 32, T22S, R36E



undisturbed junction box, facing north

11/16/2005



taking vertical sample

5/23/2007



extending shelf, preparing for clay barrier

5/30/2007



installing clay barrier

6/10/2007



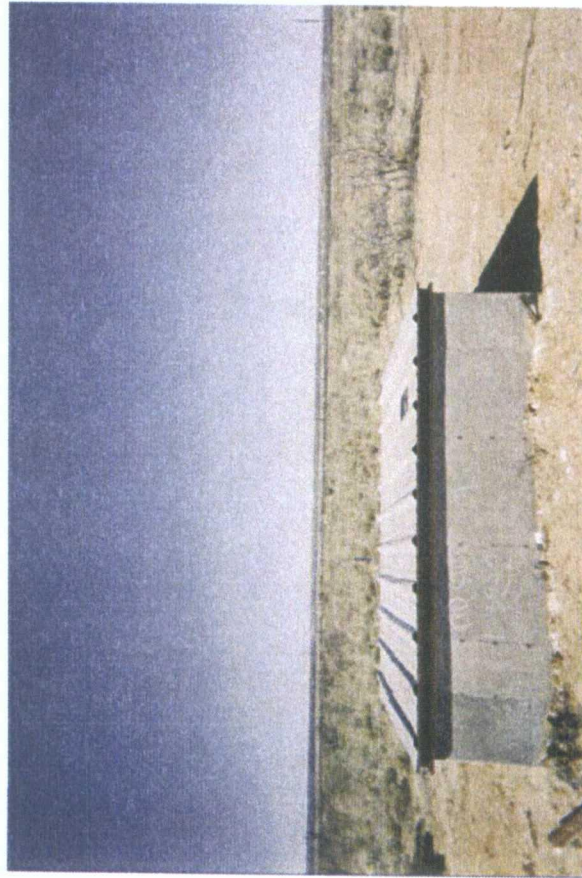
unloading clean, imported top soil

6/12/2007



seedling backfilled site

6/25/2007



new, water tight junction box

2/2/2007



soil boring located 9 ft north of former jct.

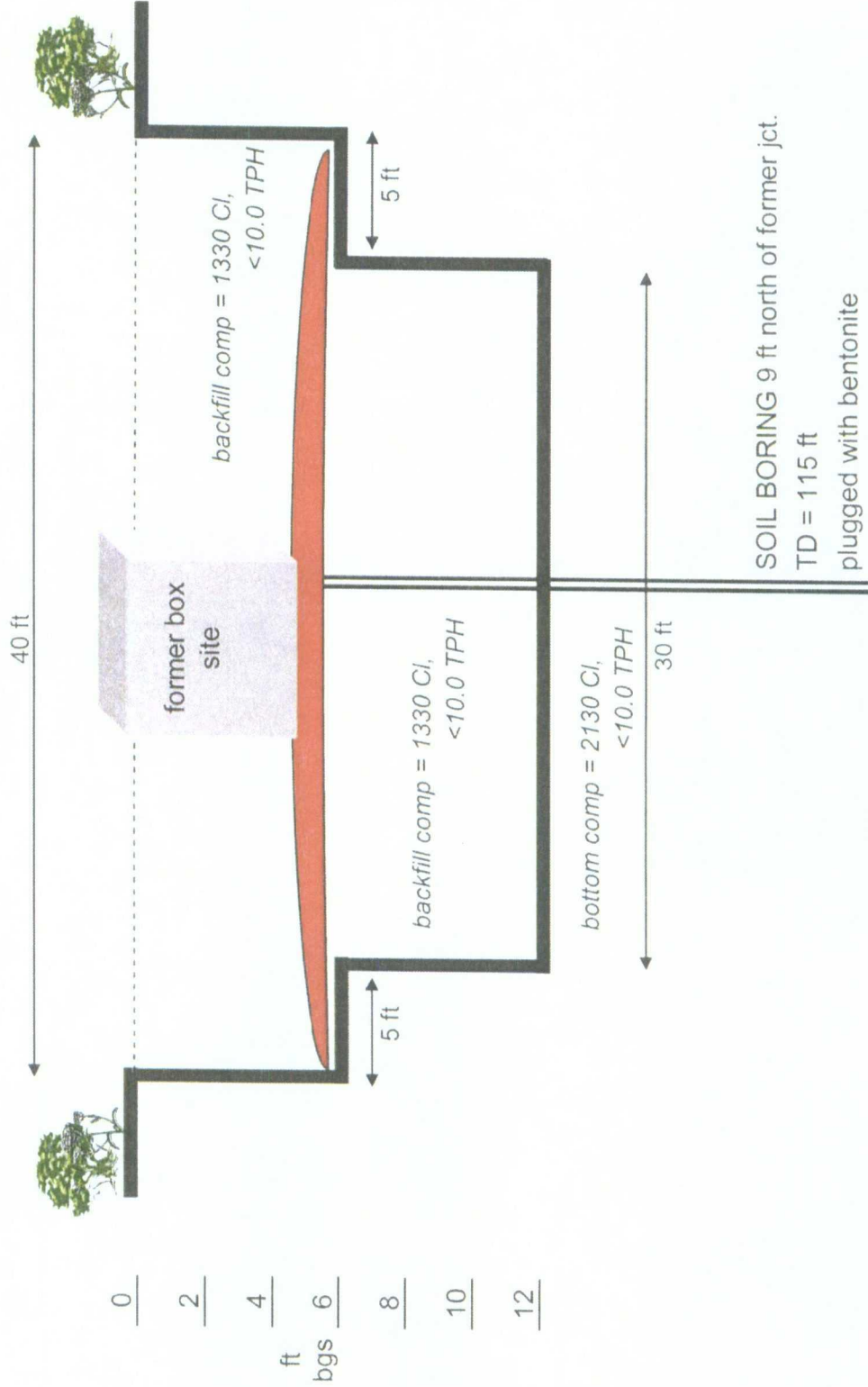
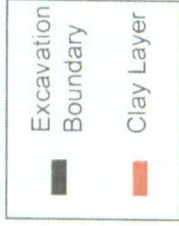
9/10/2008

BD L-32-2 vent Unit 'L', Section 32, T22S, R38E

Excavation Cross-Section

W

E





**ARDINAL
LABORATORIES**

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

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

COPY

RECEIVED

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

JUN 05 2007

RICE OPERATING
HOBBS NM

Receiving Date: 05/29/07
Reporting Date: 05/30/07
Project Number: NOT GIVEN
Project Name: B.D. VENT L-32-2
Project Location: NOT GIVEN

Sampling Date: 05/29/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
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ANALYSIS DATE		05/29/07	05/29/07	05/30/07
H12657-1	5PT BOTTOM COMPOSITE	<10.0	<10.0	2130
H12657-2	4 WALL COMP.	<10.0	<10.0	1230
H12657-3	BLENDED BACKFILL	<10.0	<10.0	1330
Quality Control		791	767	500
True Value QC		800	800	500
% Recovery		99.3	95.9	100
Relative Percent Difference		0.6	4.2	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl*: Std. Methods 4500-Cl*B

*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H12657 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, 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.

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

BILL TO		ANALYSIS REQUEST					
Company Name: Rice Operations Co. Project Manager: Roy Patterson Address: 130 W. Towner City: Holt, MO State: MO Zip: 64302 Phone #: 593-9174 Fax #: 397-1471 Project Owner: Project Name: B.D. Vent L-32-a Project Location: Sampler Name: Darnell Mitchell FOR USE BY:		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:					
MATRIX		PRESERV.		SAMPLING			
GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
Lab I.D.: Sample I.D. H12657-1 SPT Bottom Composite - 2 4 Well Comp - 3 Blended Backfill		DATE TIME 8015M 7PM CL		DATE TIME 5/29/07 11:45AM 1:15PM 2:15PM			
Terms and Conditions: Request will be charged on all accounts more than 30 days past due. If the rate of 1.2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.							
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:			
Date: 5/29/07 Time: 1552 Date: Time:				Date: 5/29/07 Time: 1552 Date: Time:			
Received By: [Signature] Received By: (Lab Staff)				Received By: [Signature] Received By: (Lab Staff)			
Delivered By: (Circle One) Sampler: Darnell Mitchell Bus: [Signature] Other: [Signature]				Delivered By: (Circle One) Sampler: Darnell Mitchell Bus: [Signature] Other: [Signature]			

Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

30 X 3 X 12 ft

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

Phone: (505) 397-9174 Fax: (505) 397-1471

COPY

VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.

MODEL

NO.

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

MODEL: PGM 7615

MODEL: PGM 7600

MODEL: PGM 7600

MODEL: PGM 7600

SERIAL NO: 104412

SERIAL NO: 110-013744

SERIAL NO: 110-12383

☒ SERIAL NO: 110-012920

LOT NO: 06-2079

FILL DATE: 7-38-06

ACCURACY: ± 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR BALANCE

EXP DATE: 1-38-08

METER READING ACCURACY: 100.2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
B.D	VENT L-32-2	L	32	22 S	38 E

SAMPLE	PID Results	Sample	PID Results
EAST well 15'	0.5		
WEST well 15'	1.4		
NORTH well 15'	0.3		
SOUTH well 15'	0.0		
4' well COMPOST	0.4		
Bottom Compost 12"	0.5		
Backfill Bed	0.8		

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

SIGNATURE: Daniel Mitchell

DATE: 5-29-07