

1R - 426-210

REPORTS

DATE:

1-20-09

BD Chesapeake Operating EOL

1R426-210

RECEIVED

MAY 24 1990

Environmental Bureau
Oil Conservation Division

DISCLOSURE

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

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length 6'	Width 4'	Depth 2'
Blinebry-Drinkard (BD)	Chesapeake Operating EOL	O	4	22S	37E	Lea	moved 10 ft north		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Pricilla Brunson Moody OTHER _____

Depth to Groundwater 90 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 9/17/2007 Date Completed 10/24/2008 OCD Witness no

Soil Excavated 11.1 cubic yards Excavation Length 5 Width 5 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 2/12/2008, 10/24/2008 Sample Depth 12 ft, 70 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.	0.0	<10.0	<10.0	528
BOTTOM COMP.	0.0	<10.0	<10.0	1,100
BACKFILL COMP.	0.4	<10.0	<10.0	336
SOIL BORING 20' grab		<10.0	<10.0	1,180
SOIL BORING 70' grab		<10.0	<10.0	352

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	598
bottom comp.	12'	948
backfill comp.	n/a	316
SOIL BORING at the junction (source) 10/24/2008	15'	694
	20'	1,108
	25'	1,003
	30'	844
	35'	1,098
	40'	991
	45'	578
	50'	447
	55'	496
	60'	542
65'	387	
70'	446	

General Description of Remedial Action: This junction was addressed under the pipeline replacement/upgrade program. A new junction box was built 10 ft north of the former. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 5x5x12-ft-deep hole. Chloride field tests were performed on each sample, which yielded chloride levels that increased with depth. Organic vapors were measured using a PID, which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis, which confirmed elevated concentrations. The excavated soil was blended on-site, returned to the excavation to ground surface, and contoured to the surrounding area. NMOCD was notified of potential groundwater impact on 8/18/2008. To further investigate depth of chloride presence, a soil boring was initiated on 10/24/2008 at the former junction box site. The boring was advanced to 70 ft below ground surface (BGS), while soil samples were collected every 5 ft and tested for chloride concentrations. The 20 ft and 70 ft sample was analyzed by a commercial laboratory for chloride and TPH, which confirmed elevated chloride concentrations. The entire borehole was plugged with bentonite to ground surface.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, lab results, PID field screening, boring log

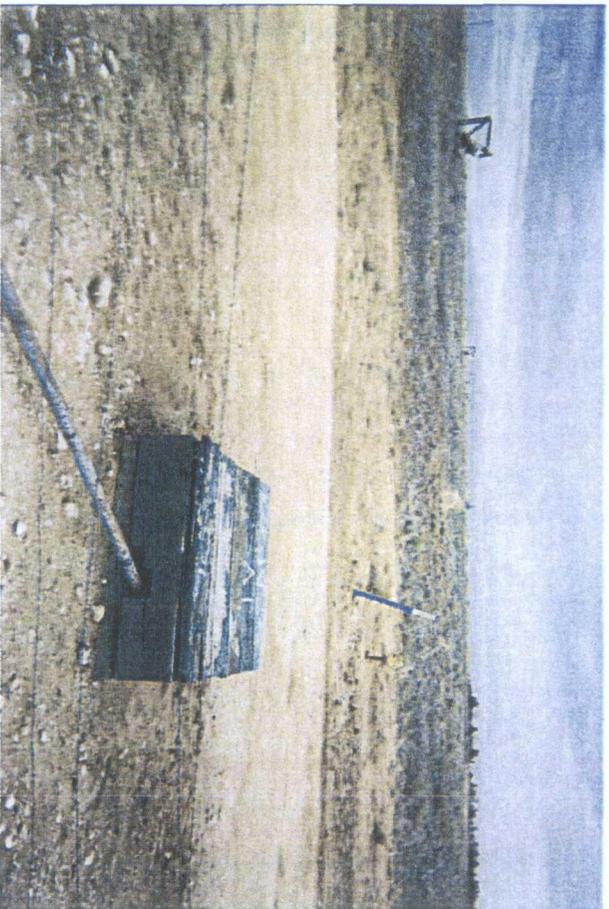
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REPORT ASSEMBLED BY Katie Jones INITIAL KJ COMPANY RICE OPERATING COMPANY
 SITE SUPERVISOR Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr.
 DATE 1-20-09 TITLE PROJECT LEADER

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

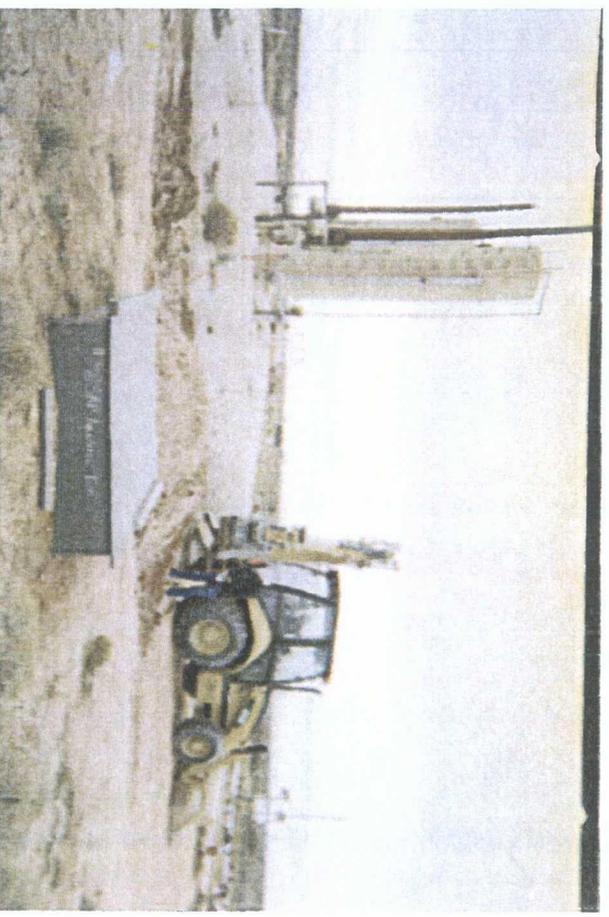
BD Chesapeake Operating EOL

Unit O, Section 4, T22S, R37E



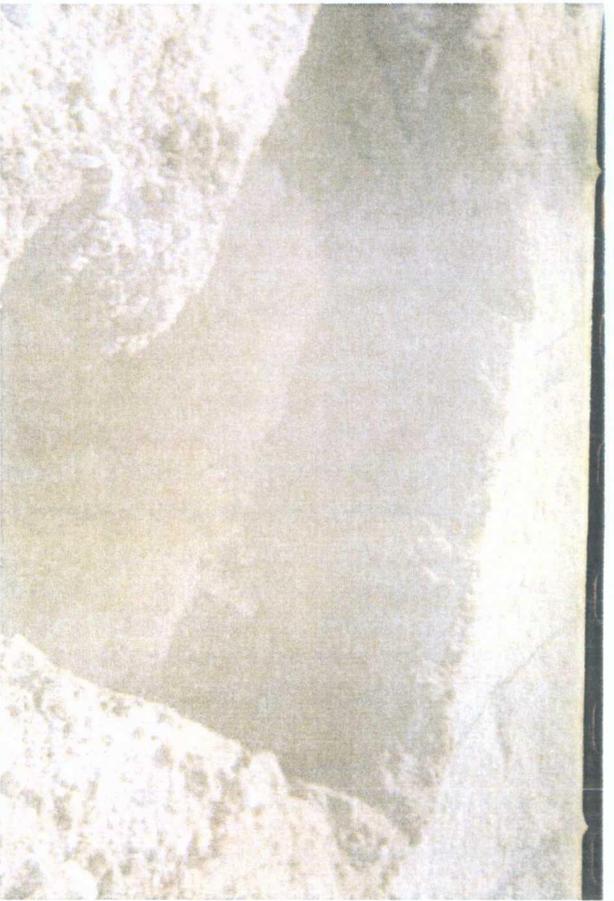
undisturbed junction box

2/23/2004



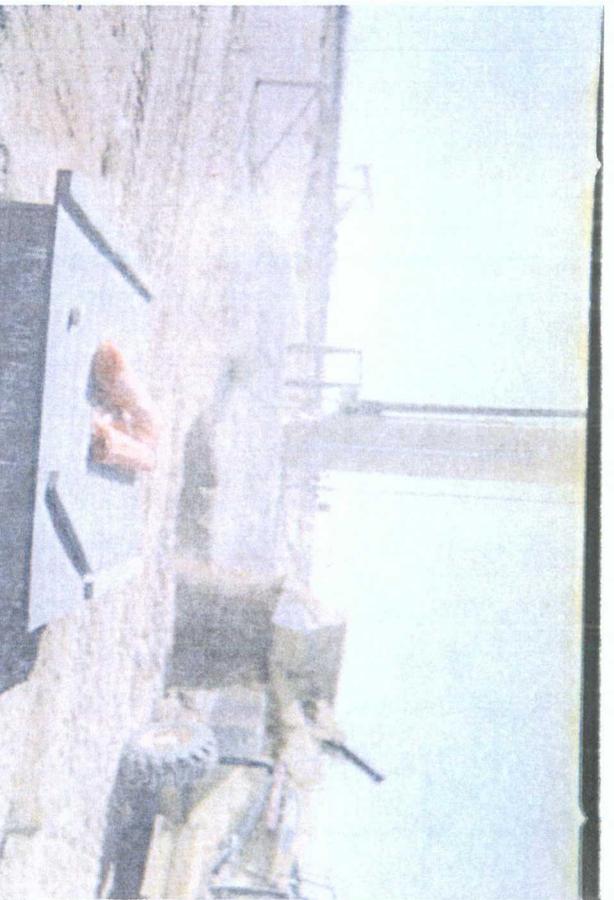
collecting a soil sample from the source

2/1/2008



5x5x12-ft-deep excavation, facing south

2/22/2008



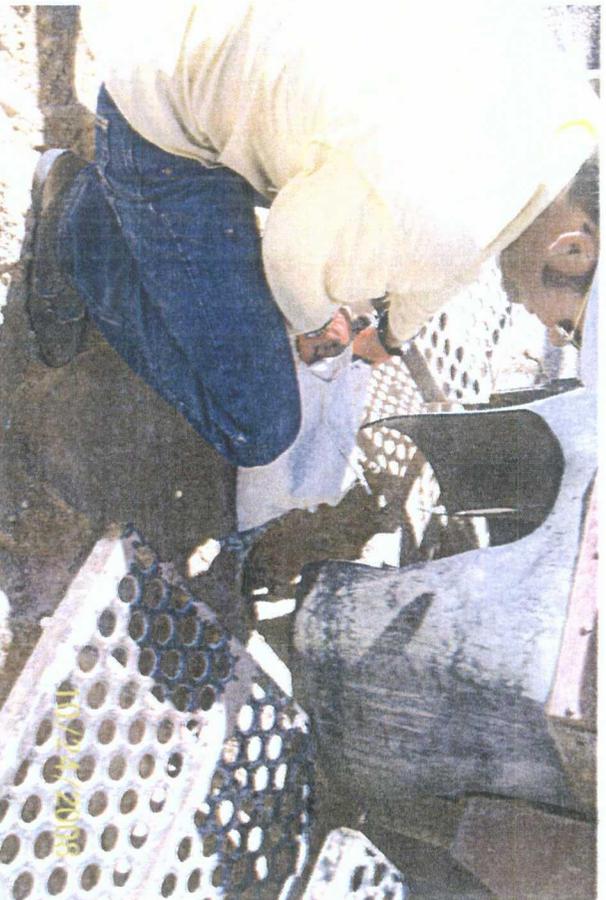
backfilling excavation, facing south
new, watertight junction box in foreground

2/22/2008



soil boring initiated at former junction box site

10/24/2008



plugging borehole with bentonite

10/24/2008



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

COPY

Receiving Date: 02/12/08
 Reporting Date: 02/13/08
 Project Owner: NOT GIVEN
 Project Name: CHESAPEAKE OPERATING EOL
 Project Location: CHESAPEAKE OPERATING EOL

Sampling Date: 02/12/08
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: ML
 Analyzed By: CK/KS

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
ANALYSIS DATE		02/12/08	02/12/08	02/12/08
H14244-1	5 PT. BTTM. COMP. @ 12'	<10.0	<10.0	1100
H14244-2	4 WALL COMP. 5X5	<10.0	<10.0	528
H14244-3	BLENDED BACKFILL	<10.0	<10.0	336
Quality Control		562	383	500
True Value QC		500	500	500
% Recovery		112	76.6	100
Relative Percent Difference		6.1	4.5	<0.1

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

FEB 15 2008

Ally D. Keene
 Chemist

02/13/08
 Date

H14244TCL RICE

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CARDINAL LABORATORIES

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

COPY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Rice Operating Co
Project Manager: Bruce Baker
Address: 122 W Taylor
City: Hobbs
Phone #: 393-9174
Project #:
Project Name: Chesapeake Operating EOL
Project Location: Chesapeake Operating EOL
Sampler Name:

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		PRESERV		MATRIX		CONTAINERS		SAMPLING		DATE	TIME	ANALYSIS REQUEST
		(G)RAB OR (C)OMP.	#	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL			
H14244-1	Spts. Bttm Comp @ 12'	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	2-12-08	8:50AM	✓
-2	4 Wall Comp 5XS	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	2-12-08	9:40AM	✓
-3	Blended Backfill	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	2-12-08	9:50AM	✓

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Relinquished By: Bruce Baker
Relinquished By: [Signature]
Delivered By: (Circle One) Sample - UPS - Bus - Other:
Received By: [Signature]
Received By: [Signature]
Checked By: [Signature]
Sample Condition: Cool Intact
 Yes No Yes No
REMARKS: Email results to bbaker@riceswd.com
 A cc to jpurvis@riceswd.com

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

RICE OPERATING COMPANY

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

CK.	
MODEL	
NO.	

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

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GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 4/12/09
FILL DATE: 10/12/07	METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	BD Chesapeake Operating EOL	0	4	225	37E

SAMPLE ID	PID	SAMPLE ID	PID
5pt. Bttm Comp. @12'	0		
4 Wall Comp 5X5	0		
Blended Backfill	0.4		

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

SIGNATURE:

Bruce Baker

DATE:

2-12-08

COPY

Logger:	Lara Weinheimer	Client:	RICE Operating Company	Well ID:	SB - 1
Driller:	Harrison & Cooper, Inc. Drilling	Project Name:	BD Chesapeake Operating EOL		
Drilling Method:	Air rotary	Location:	BD SWD System		
Start Date:	10-24-08		unit 'O' Sec.4 T22S, R37E		
End Date:	10-24-08		Lea County, NM		
Comments:					
Located at center of former junction box site TD = 70 ft GW = 75 ft					

Depth (feet)	chloride field tests	PID	Description	Lithology	Soil Bore Construction
			10 - 15 ft VERY FINE TO FINE SAND caliche, light brown, dry		
15	694	0.8			
			15 - 30 ft VERY FINE TO FINE SAND caliche, light brown, slightly moist		
20	1108				
Lab	1180				
25	1003				
			30 - 35 ft VERY FINE TO FINE SAND reddish-brown, slightly moist		
30	844				
			35 - 40 ft VERY FINE TO FINE SAND caliche, light brown, dry		
35	1098				
			40 - 45 ft VERY FINE TO FINE SAND reddish-brown, slightly moist		
40	991				
			45 - 65 ft VERY FINE TO FINE SAND rocky, light reddish-brown, dry		
45	578				
			60 - 65 ft VERY FINE TO FINE SAND reddish-brown, slightly moist		
50	447				
			65 - 70 ft VERY FINE TO FINE SAND reddish-brown, slightly moist		
55	496				
60	542				
65	387				
70	446				
Lab	352				

bentonite seal