

1R - 426-202

# REPORTS

DATE:

1-27-09

BD Jct C-4-2

/R426-202

RECEIVED

MAY 24 1980

Environmental  
Oil Conservation Division

DISCLOSURE

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

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Bliebry-Drinkard (BD)	Jct. C-4-2	C	4	T22S	R37E	Lea	Length	Width	Depth
							eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Priscilla West OTHER \_\_\_\_\_

Depth to Groundwater 95 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/24/2007 Date Completed 11/1/2007 OCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 24 cubic yards Offsite Facility Sundance Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 5/29/2007, 5/30/2007, 10/31/2007 Sample Depth 12 ft, 85 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	GRD mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	3.2	<25.0	33.6	1,620
BOTTOM COMP.	1.5	<25.0	34.8	2,290
BLENDED BACKFILL	1.5	26.9	30.4	1,280
SOIL BORING #1 85' grab				672

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1,595
bottom comp.	12'	1,877
blended backfill	n/a	1,448
background	6"	224
SOIL BORING #1 at the former junction (source) 10/31/2007	15'	1,077
	20'	2,894
	25'	843
	30'	3,078
	35'	853
	40'	1,079
	45'	1,188
	50'	1,549
	55'	1,788
	60'	1,356
	65'	1,253
	70'	1,119
	75'	1,125
	80'	1,045
	85'	829

**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 producing a 30x30x12-ft-deep excavation. Chloride field tests performed on each sample yielded elevated concentrations that did not relent with depth. 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, which confirmed elevated chloride concentrations. The excavated soil was blended on site with clean imported soil and returned to the excavation up to 6 ft below ground surface (BGS). At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was used to backfill the excavation and clean, imported soil was used as a top cap and to contour to the surrounding area. On 6/18/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. An identification plate was placed on the surface above the former junction to mark the presence of the clay below.

To further investigate depth of chloride presence, four soil borings were initiated on 10/31/2007 and 11/1/2007. Soil borings #1 and #2 were advanced to a depth of 85 ft BGS, soil boring #3 was advanced to a depth of 60 ft BGS, and soil boring #4 was advanced to a depth of 50 ft BGS. Soil samples were collected every 5 ft and field tested for chlorides. The deepest sample from each soil boring was sent to a commercial laboratory for analysis of chloride, which confirmed elevated concentrations. Each borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 1/9/2009.

**ADDITIONAL EVALUATION IS HIGH PRIORITY**

enclosures: photos, cross-section, lab results, boring log

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

SITE SUPERVISOR Noel Carmona SIGNATURE [Signature] COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE [Signature] DATE 1-27-09

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

# BD Jct. C-4-2

Unit C, Section 4, T22S, R37E



undisturbed junction box

7/28/2003



excavation at former junction site

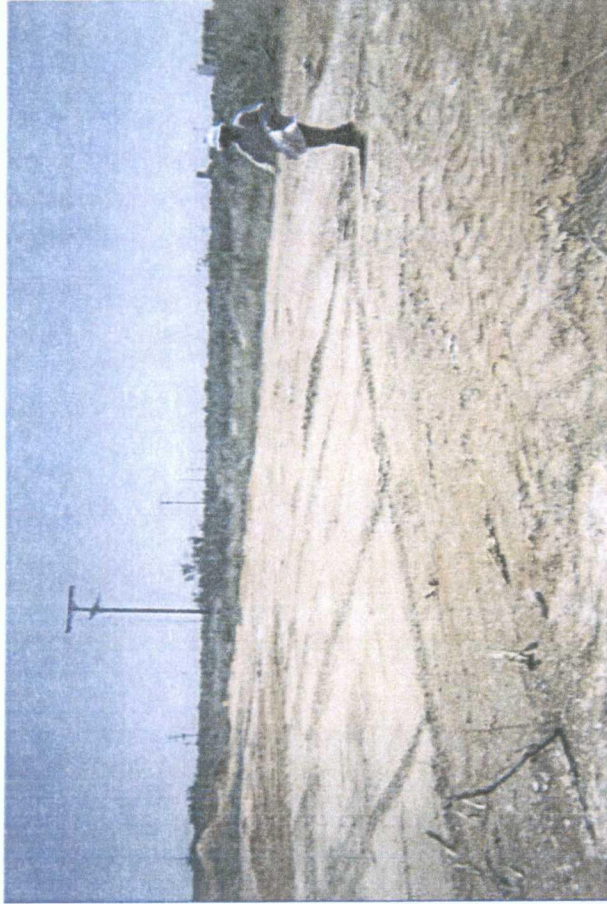
5/25/2007





excavation with clay barrier installed

6/11/2007



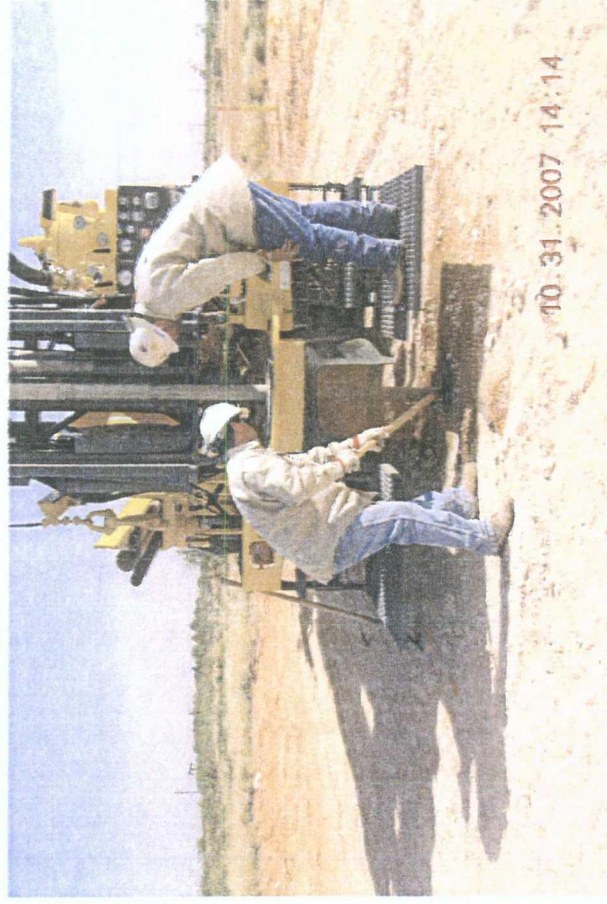
seeding backfilled site

6/18/2007



site complete with clay marker

6/18/2007



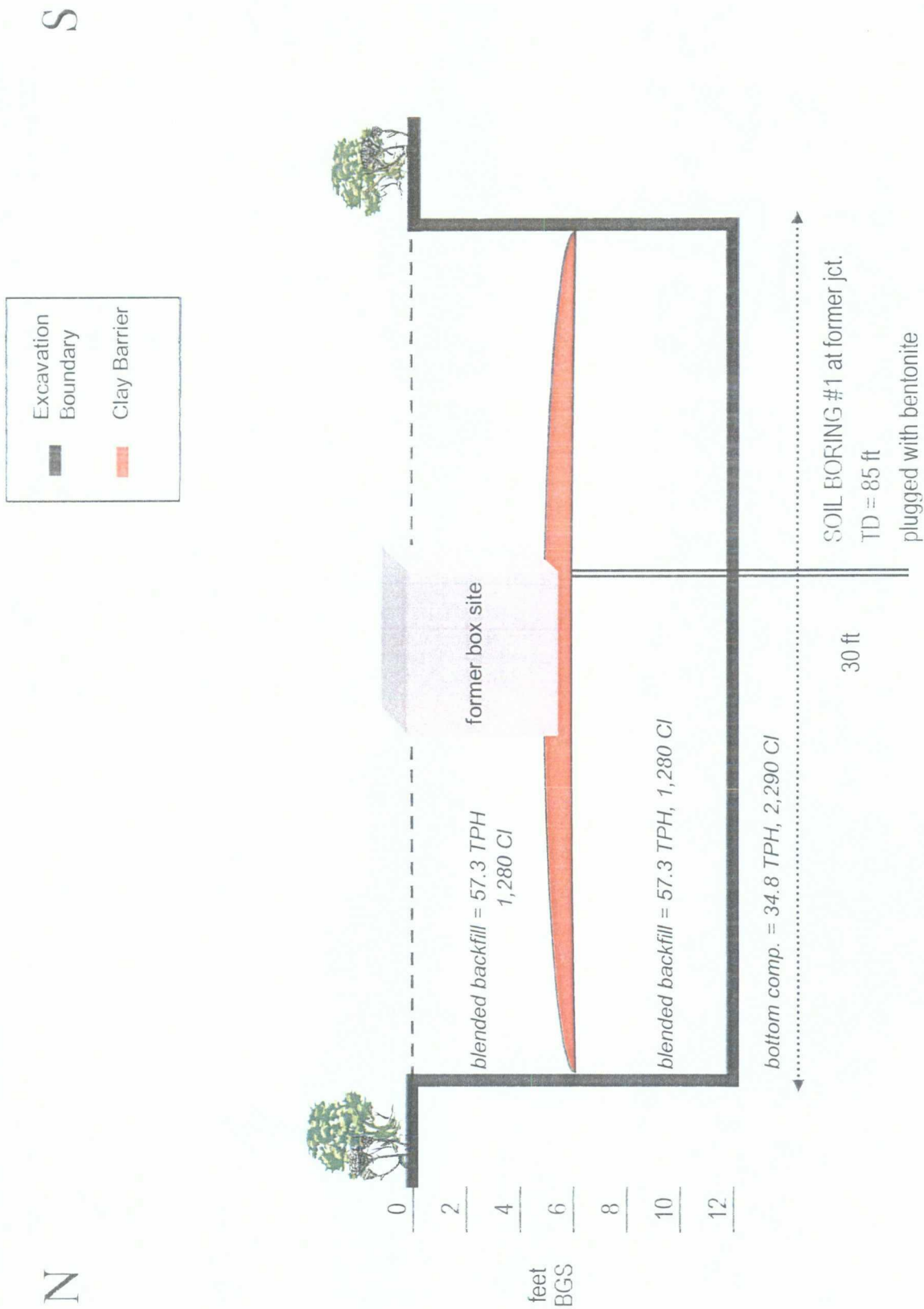
soil boring #1 at the source

10/31/2007



BD Jct. C-4-2  
Unit 'C', Sec. 4, T22S, R37E

# Excavation Cross-Section

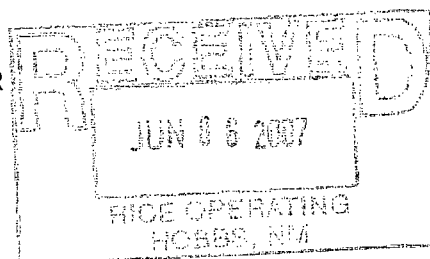




PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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



Receiving Date: 05/30/07  
Reporting Date: 06/01/07  
Project Number: NOT GIVEN  
Project Name: B.D. JCT. C-4-2  
Project Location: NOT GIVEN

Sampling Date: 05/29/07, 05/30/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
Analyzed By: LB/AB

COPY

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)
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ANALYSIS DATE	05/31/07	05/31/07	05/31/07
H12676-1 4 WALL COMP. @ 30x30	<25.0	33.6	1620
H12676-2 BTM. 5 PT. COMP @12'	<25.0	34.8	2290
H12676-3 BLENDED BACKFILL	26.9	30.4	1280
Quality Control	898	974	480
True Value QC	1000	1000	500
% Recovery	89.8	97.4	96
Relative Percent Difference	5.0	7.6	4.1

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

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

Chemist

6/1/07

Date

H12676 RICE

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





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

NOV 12 2007

RICE OPERATING  
HOBBS NM

Receiving Date: 11/07/07  
Reporting Date: 11/08/07  
Project Number: NOT GIVEN  
Project Name: BD JCT. C-4-2  
Project Location: BD JCT. C-4-2

COPY

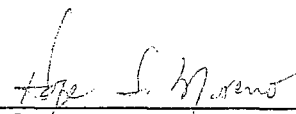
Analysis Date: 11/07/07  
Sampling Date: 10/31/07 & 11/01/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: SB  
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H13659-1	SB #2 20' W OF SOURCE @ 85'	176
H13659-2	SB #3 20' E OF SOURCE @ 60'	816
H13659-3	SB #4 20' N OF SOURCE @ 50'	160
H13659-4	SB #1 20' AT SOURCE @ 85'	672
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl<sup>-</sup>B

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

  
\_\_\_\_\_  
Kristin Pope  
Chemist

11-08-07  
\_\_\_\_\_  
Date

H13659 RICE

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<b>Logger:</b>	Lara Weinheimer	<b>Client:</b>	RICE Operating Company	<b>Well ID:</b>     SB - 1
<b>Driller:</b>	Harrison & Cooper Drilling	<b>Project Name:</b>	BD jct. C-4-2	
<b>Drilling Method:</b>	Split spoon & Air Rotary	<b>Location:</b>	BD SWD System	
<b>Start Date:</b>	10-31-07		unit 'C' Sec.4 T22S, R37E	
<b>End Date:</b>	10-31-07		Lea County, NM	
<b>Comments:</b> Located at the source of former junction site  TD = 85 ft      GW = 89 ft				

Depth (feet)	chloride field tests	PID	Description	Lithology	Soil Bore Construction
			12 - 15 ft		
			VERY FINE TO FINE SAND		
15	1077	0.8	reddish-brown, dry, no odor		
			15 - 20 ft		
			VERY FINE TO FINE SAND		
20	2894	1	yellowish-orange, dry, no odor		
			COPY		
25	843	0.9			
30	3078	0.4			
35	853				
40	1079				
45	1188				
50	1549				
55	1788				
60	1356				
65	1253				
70	1119				
75	1125		75 - 80 ft		
			VERY FINE TO FINE SAND		
			light brown, dry, no odor		
80	1045				
85	829				

bentonite  
seal