

1R - 426-258

REPORTS

DATE:

2-25-10

BD Jct L-30
2009

1R426-258

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SEP 14 2009

Environmental Bureau
Oil Conservation Division

DISCLOSURE

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APP - 6 2010

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

Environmental Bureau
Oil Conservation Division

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard (BD)	Jct. L-30	L	30	21S	37E	Lea	moved 30 ft south		

LAND TYPE: 2LW STATE FEE LANDOWNER Nymayer Properties OTHER

Depth to Groundwater 148 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/16/2007 Date Completed 10/4/2007 OCD Witness no

Soil Excavated 333.3 cubic yards Excavation Length 30 Width 25 Depth 12 feet

Soil Disposed 12 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 4/23/2007, 10/4/2007 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.	5.2	<10.0	<10.0	2110
BOTTOM COMP.	3.9	<10.0	<10.0	2960
BLENDED BACKFILL	4.2	<10.0	<10.0	1040
SB #1 @ 70'				64

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1888
bottom comp.	12'	2257
blended backfill	n/a	1062
background	1"-3"	57
SOIL BORING at 15 ft west of the junction (10/4/2007)	5	352
	10	1890
	15	3478
	20	3079
	25	2613
	30	1667
	35	1938
	40	1246
	45	1204
	50	1069
55	829	
60	451	
65	231	
70	170	

General Description of Remedial Action: This junction box was addressed 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 30x25x12-ft-deep excavation. Chloride field tests performed on each sample yielded elevated concentrations. Organic vapors were measured using a PID which yielded low concentrations. The excavated soil was blended on site and representative composite samples were collected from the blended backfill, the bottom of the excavation, and the excavation walls. Laboratory analysis of the representative samples confirmed elevated concentrations of chloride and low concentrations of TPH. The blended excavated soil was 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 backfill was returned to the excavation to ground surface and clean, imported soil was used as a top cap and to contour to the surrounding area. An identification plate was placed on the surface at the former junction site to mark the presence of clay below. On 5/1/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. A new, water-tight junction box was built 30 ft south of the former. To further investigate depth of chloride presence, a soil bore was initiated on 10/4/2007 at 15 ft west of the former junction box. The boring was advanced to a depth of 70 ft BGS while soil samples collected every 5 ft. Chloride field tests performed on each sample yielded elevated concentrations that relent with depth. Laboratory analysis of the deepest sample, 70 ft BGS, yielded low concentrations of chloride. The entire bore hole was plugged with bentonite to the ground surface. NMOCD was notified of potential ground-water impact on 2/19/2010.

ADDITIONAL EVALUATION IS LOW PRIORITY

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

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 [Initials]

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE [Signature] DATE 2-25-10

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

BD Jct. L-30



former junction box, facing north

3/28/2006



seeding the backfilled site

5/1/2007

Unit L, Section 30, T21S, R37E



30x25-ft excavation with a clay barrier installed

4/27/2007



site complete with a clay marker and a new, watertight junction box

5/1/2007



drilling SB #1 15 ft west of the former junction box 10/4/2007



plugging SB #1 with bentonite 10/4/2007



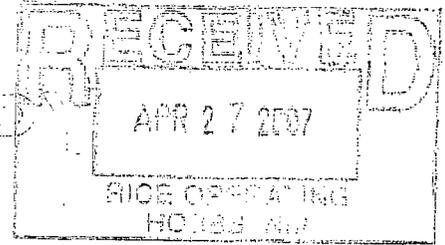
**ARDINAL
LABORATORIES**

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

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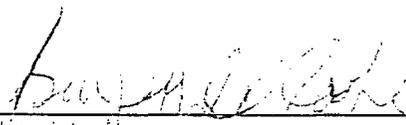
Receiving Date: 04/24/07
Reporting Date: 04/25/07
Project Number: NOT GIVEN
Project Name: B.D. JCT L-30
Project Location: NOT GIVEN

Sampling Date: 04/23/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
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)
	ANALYSIS DATE	04/24/07	04/24/07	04/25/07
H12503-1	4 WALL COMP. @ 30'x25'	<10.0	<10.0	2110
H12503-2	BTTM. 5PT COMP. @ 12'	<10.0	<10.0	2960
H12503-3	BLENDED BACKFILL	<10.0	<10.0	1040
	Quality Control	780	785	480
	True Value QC	800	800	500
	% Recovery	98.1	98.1	96.0
	Relative Percent Difference	0.5	0.7	2.0

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

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



Chemist

4-25-07

Date

H12503 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.

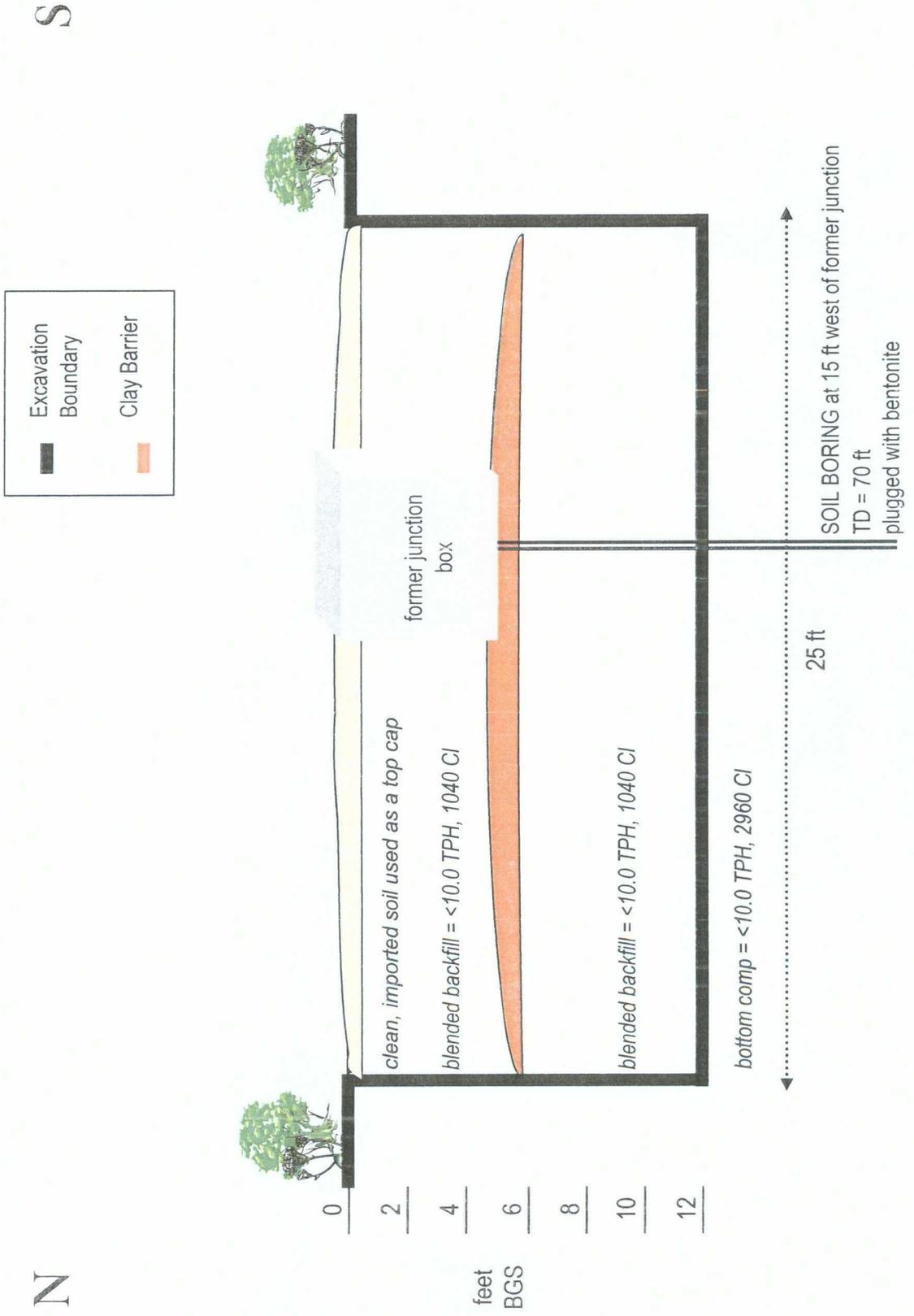
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Logger:	Lara Weinheimer	Client:	RICE Operating Company	Well ID: SB - 1
Driller:	Harrison & Cooper Drilling	Project Name:	BD jct. L-30	
Drilling Method:	Air rotary	Location:	BD SWD System	
Start Date:	10-4-07		unit 'L' Sec.30 T21S, R37E	
End Date:	10-4-07		Lea County, NM	
Comments:				
Located 15 ft west of former jct. box				
TD = 70 ft GW = 89 ft				

Depth (feet)	chloride lab tests	PID	Description	Lithology	Soil Bore Construction
			0 - 5 ft RED CLAY		
5	352				
			5 - 10 ft VERY FINE TO FINE SAND Reddish-brown, dry		
10	1890				
			10 - 15 ft SAND WITH CALICHE FLECKS Light brown, dry		
15	3478				
			15 - 20 ft COARSE SAND Light brown, dry		
20	3079				
			20 - 25 ft SAND with up to 1/2 in rock, light-brown, dry		
25	2613				
			25 - 40 ft FINE TO COARSE SAND with up to 1/4 in rock, brown, dry		bentonite seal
30	1667				
35	1938				
			40 - 60 ft FINE TO SLIGHTLY COARSE with up to 1/4 in rock, light-tan, dry		
40	1246				
45	1204				
50	1069				
55	829				
60	451				
65	231		60 - 70 ft FINE SAND Reddish-brown, dry		
70	170				

BD Jct. L-30
Unit 'L', Sec. 30, T21S, R37E

Excavation Cross-Section



CHLORIDE CONCENTRATION CURVE

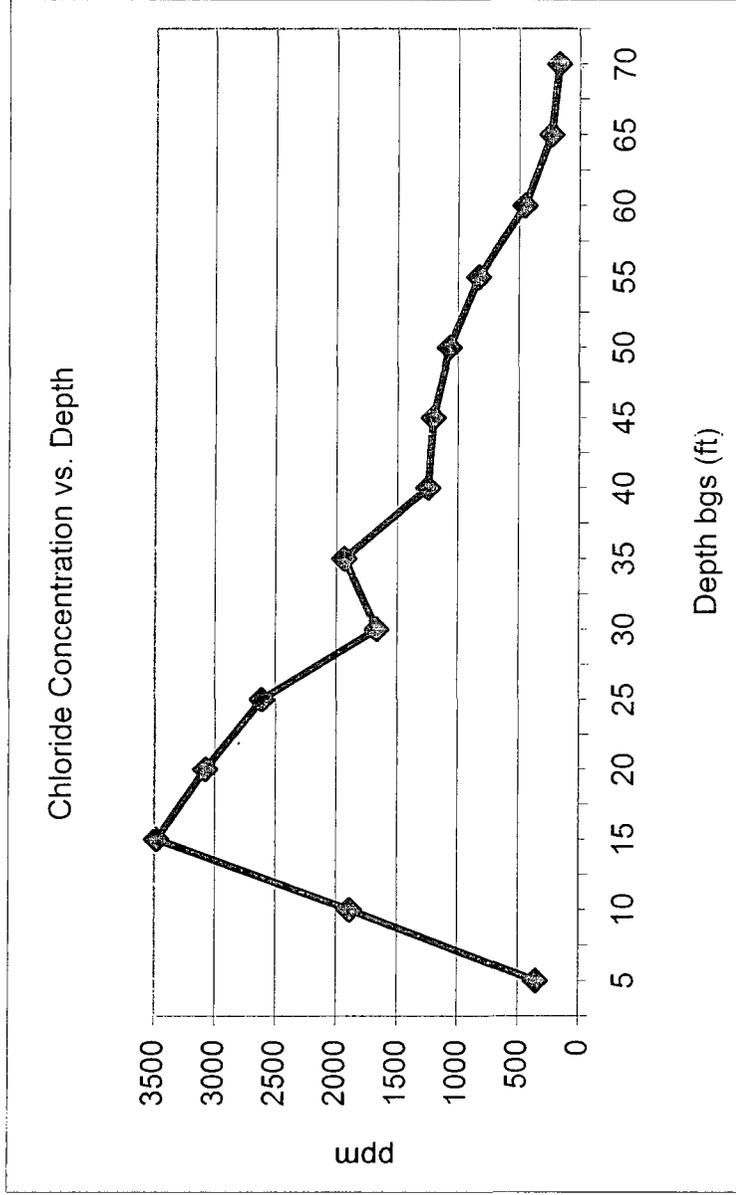
RICE Operating Company

BD Jct. L-30

Unit 'L', Sec. 30, T21S, R37E

SOIL BORING samples at 15 ft west of the junction (source)

Depth bgs (ft)	[Cl ⁻] ppm
5	352
10	1890
15	3478
20	3079
25	2613
30	1667
35	1938
40	1246
45	1204
50	1069
55	829
60	451
65	231
70	170



Groundwater = 148 ft