

1R - 426-205

REPORTS

DATE:

1-20-09

35

BID Jet J-1-1

1R426-205

RECEIVED
MAR 25 2006
Environmental Protection
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	Width	Depth
Blinbery-Drinkard (BD)	Jct. J-1-1	J	1	22S	36E	Lea	same location		

LAND TYPE: BLM X STATE _____ FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 137 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 3/18/2008 Date Completed 7/1/2008 OCD Witness no

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

Soil Disposed 60 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 4/18/2008, 7/1/2008 Sample Depth 12 ft, 90 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	Chlorides mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	1,120
BOTTOM COMP.	0.1	<10.0	<10.0	1,100
BLENDED BACKFILL	0.0	<10.0	<10.0	912
SOIL BORING #2 20'				1,220
SOIL BORING #2 90'				736

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	861
bottom comp.	12'	982
blended backfill	n/a	683
background	6"	99
SOIL BORING at 5 ft south of the junction (source) 6/30/2008	15'	631
	20'	1,154
	25'	652
	30'	315
	35'	406
	40'	373
	45'	357
	50'	487
	55'	496
	60'	576
	65'	301
	70'	570
	75'	674
80'	692	
85'	301	
90'	674	

General Description of Remedial Action: This junction 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 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. 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 extending 5 ft out from the North, East, and West walls to prepare the surface for the clay barrier. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed with a clay density test performed on 05/05/2008. The remaining fill was used to backfill the excavation to ground surface 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 the clay below. On 5/9/2008, 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, watertight junction box will be built in the same location. To further investigate the depth of chloride presence, two soil borings were initiated on 6/30/2008 and

7/1/2008 at 23 ft west (SB #1) and 5 ft south (SB #2) of the former junction box. SB #1 was advanced to 70 ft BGS and SB #2 was advanced to 90 ft BGS while soil samples were collected every 5 feet and tested for chlorides. The 20 ft and 90 ft samples from SB #2 were analyzed by a commercial laboratory for chloride, yielding elevated concentrations. The entire borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 1/5/2009.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, lab results, PID field screenings, cross-section, clay test, boring log, chloride curve

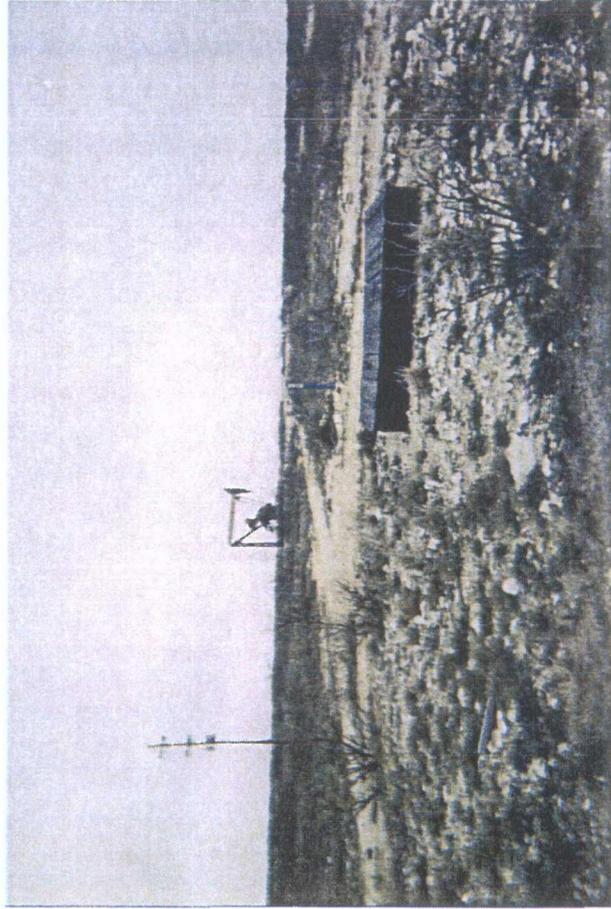
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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 Jct. J-1-1

Unit J, Section 1, T22S, R36E



undisturbed junction box, facing north

2/8/2005



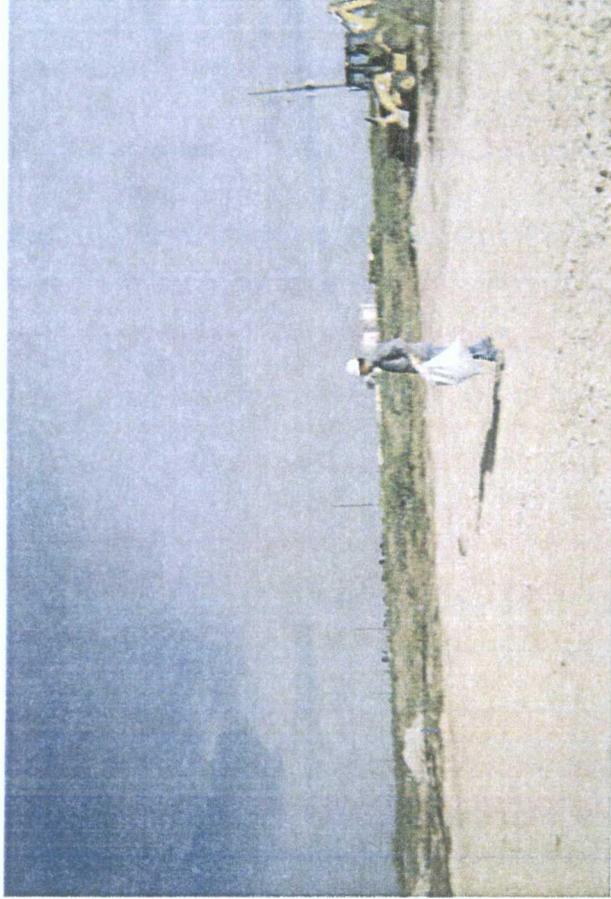
30x30x12-ft excavation at
former junction site, facing northwest

4/18/2008



clay density test

5/5/2008



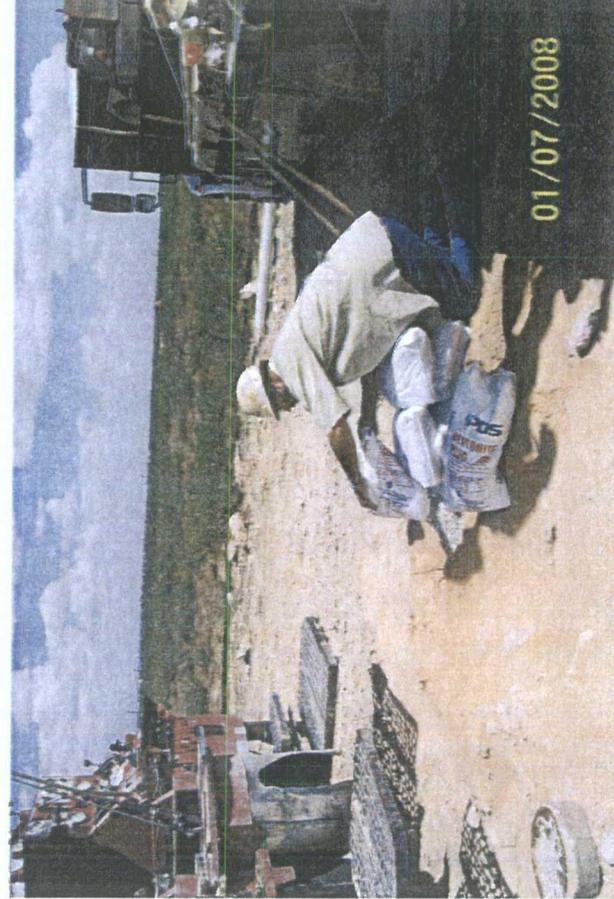
seeding backfilled site

5/9/2008



soil boring #2 at 5 ft south of former junction

7/1/2008



plugging soil boring #2 with bentonite

7/11/2008



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

Receiving Date: 04/18/08
 Reporting Date: 04/22/08
 Project Owner: NOT GIVEN
 Project Name: BD JCT. J-1-1
 Project Location: BD JCT. J-1-1

Sampling Date: 04/18/08
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: ML
 Analyzed By: CK/HM

COPY

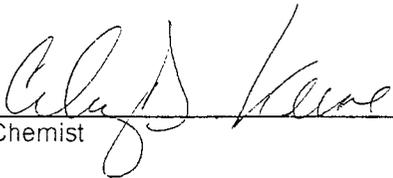
LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		04/21/08	04/21/08	04/21/08
H14684-1	5 PT. BTTM @ 12' COMP.	<10.0	<10.0	1,100
H14684-2	4 WALL COMP. 30X30	<10.0	<10.0	1,120
H14684-3	BLENDED BACKFILL	<10.0	<10.0	912
Quality Control		550	586	500
True Value QC		500	500	500
% Recovery		110	117	100
Relative Percent Difference		3.9	10.8	<0.1

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

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APR 24 2008

RICE OPERATING
 HOBBS, NM


 Chemist

04/23/08
 Date

H14684TCL RICE

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RICE OPERATING COMPANY

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

CK.	<input checked="" type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-013676
MODEL	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-013744
NO.	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-12383
	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: (4/21/07) COPY
FILL DATE: 10/12/07	METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	J-1-1	J	1	225	36E

SAMPLE ID	PID	SAMPLE ID	PID
Spt. Bttm Comp	1.0		
4 Wall Comp	0		
Blended BACKfill	0		

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

SIGNATURE: *Bruce Barker*

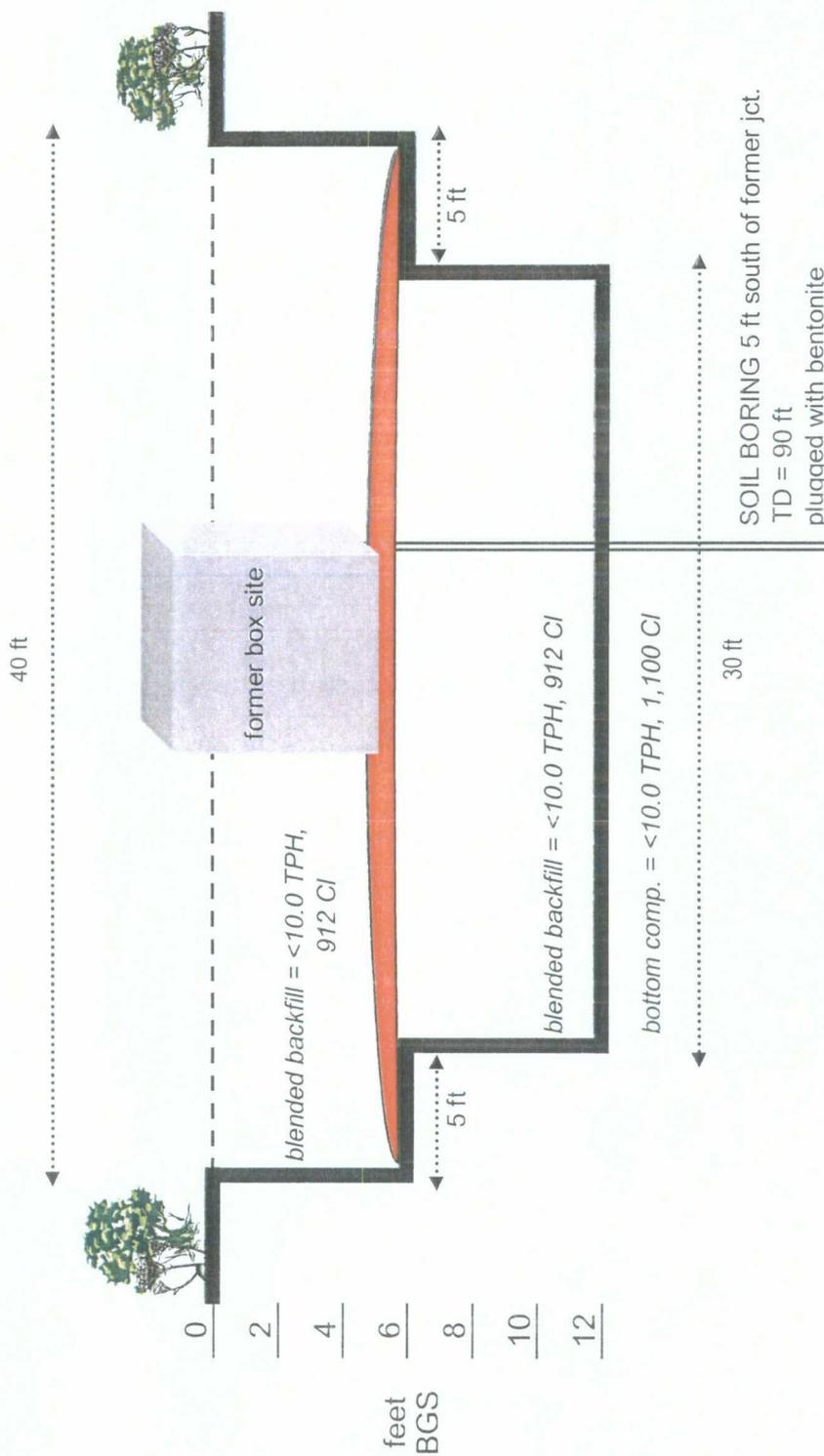
DATE: 4-18-08

BD Jct. J-1-1
Unit 'J', Sec. 1, T22S, R36E

Excavation Cross-Section

E

W





LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
 1110 N. GRIMES
 HOBBS, NM 88240
 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Company
 Attn: Hack Conder
 122 W. Taylor
 Hobbs, NM 88240

Material: Wallach Red Clay

Test Method: ASTM: D 2922

Project: General Information
 BDJC J-1-1
 Project No. 2008.1069

Date of Test: May 5, 2008

COPY

Depth: See Below

Depth of Probe: 6"

Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 2	BDJC J-1-1 10' E. & 10' S. of NW Corner	92.0	17.0	4' Below FSG

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JUN 06 2008

RICE OPERATING
 HOBBS, NM

Control Density: 102.8
 ASTM: D 698

Optimum Moisture: 22.6%

Required Compaction: 90% - 95%

Densometer ID: 815

PETTIGREW & ASSOCIATES

Lab No.: 08 4680

Copies To: Rice Operating

BY: Erica M. Hart

BY: Debra P. Hicks P.E.

Logger:	Lara Weinheimer	Client:	RICE Operating Company	Well ID:	SB - 2
Driller:	Harrison & Cooper Drilling	Project Name:	BD jct. J-1-1		
Drilling Method:	Air rotary	Location:	BD SWD System		
Start Date:	7-1-08		unit 'J' Sec.1 T22S, R36E		
End Date:	7-1-08		Lea County, NM		
Comments: Located 5 ft south of the former jct. box site TD = 90 ft GW = 95 ft					

Depth (feet)	chloride field tests	PID	Description	Lithology	Soil Bore Construction
15	631	12	10 - 15 ft VERY FINE TO FINE SAND some rock, light brown, dry		
20	1154 Lab 1220	9	15 - 25 ft VERY FINE TO FINE SAND light brown, dry		
25	652				
30	315				
35	406				
40	373				
45	357				
50	487		25 - 80 ft VERY FINE TO FINE SAND orangy-brown, dry		bentonite seal
55	496				
60	576				
65	301				
70	570				
75	674				
80	692				
85	301		80 - 90 ft VERY FINE TO FINE SAND orangy-brown, slightly moist		
90	674 Lab 736				



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

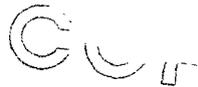
JUL 11 2008
RICE OPERATING
HOBBS, NM

Receiving Date: 07/08/08
Reporting Date: 07/08/08
Project Number: NOT GIVEN
Project Name: BD JCT. J-1-1
Project Location: BD JCT. J-1-1

Analysis Date: 07/08/08
Sampling Date: 07/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: KS

LAB NUMBER SAMPLE ID

Cl⁻
(mg/kg)



H15118-1	SB #2 @ 20'	1,220
H15118-2	SB #2 @ 90'	736
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-ClB

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

Chemist

07/09/08
Date

H15118 RICE

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CHLORIDE CONCENTRATION CURVE

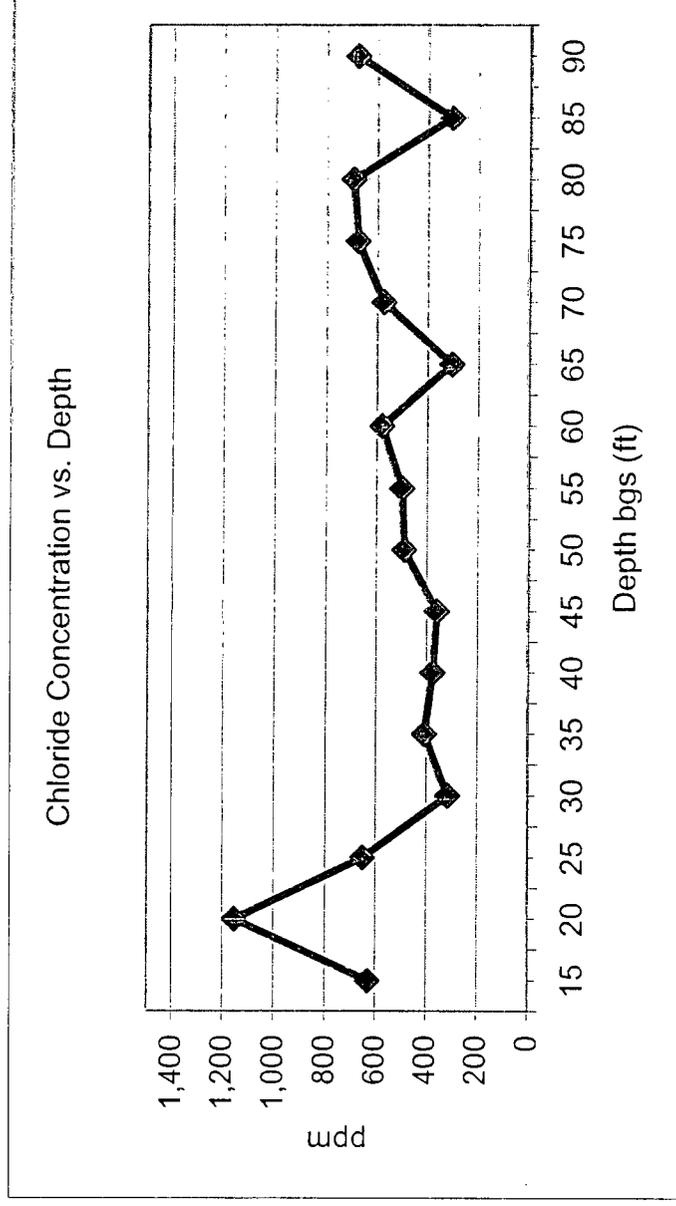
RICE Operating Company

BD Jct. J-1-1

Unit 'J', Sec. 1, T22S, R36E

SOIL BORING samples at 5 ft south of the junction (source)

Depth bgs. (ft)	Cl ⁻ ppm
15	631
20	1,154
25	652
30	315
35	406
40	373
45	357
50	487
55	496
60	576
65	301
70	570
75	674
80	692
85	301
90	674



Groundwater = 137 ft