

1R - 423-21

**REPORTS**

**DATE:**

3-8-10

1R 423-21

Justis Jet D-2  
2009

RECEIVED  
APR - 6 2009  
Environmental Bureau  
Oil Conservation Division

DISCLOSURE

RECEIVED

APR - 6 2010

Environmental Bureau  
Oil Conservation DivisionRICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE REPORT

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
Justis	Jct. D-2	D	2	25S	37E	Lea	eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_Depth to Groundwater 80 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20Date Started 6/9/2009 Date Completed 7/8/2009 OCD Witness noSoil Excavated 177.8 cubic yards Excavation Length 20 Width 20 Depth 12 feetSoil Disposed 48 cubic yards Offsite Facility Sundance Location Eunice, NMFINAL ANALYTICAL RESULTS: Sample Date 6/17/2009,  
6/22/2009, 7/8/2009 Sample Depth 12 ft, 20 ft, 80 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.	3.2	<10.0	211	240
5PT BOTTOM COMP.	6.3	<10.0	32.3	1,810
BLENDED BACKFILL	2.1	<10.0	<10.0	128
SB #1 @ 20'	0.2	<10.0	<10.0	5,760
SB #1 @ 80'		<10.0	<10.0	1,120

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	927
bottom comp.	12'	1601
blended backfill	n/a	584
background	6"	133
SOIL BORING at 8 ft northwest of the junction (7/8/2009)	15'	1,020
	20'	4,856
	25'	1,446
	30'	658
	35'	354
	40'	444
	45'	287
	50'	466
	55'	737
	60'	839
	65'	722
	70'	647
	75'	1,080
	80'	1,055

**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 creating a 20x20x12-ft deep excavation. Each sample was field tested for chlorides which yielded elevated concentrations. Organic vapors, measured using a PID, yielded low concentrations. The excavated soil was blened on site and representative composite samples were collected from the blended backfill, the bottom of the excavation and the excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH, confirming low concentrations of TPH and slightly elevated concentrations of chloride in the bottom composite. The blended backfill was returned to the excavation up to 5 ft below ground surface (BGS). A 5 ft-deep shelf was excavated extending 5 ft from the north and south walls to prepare the surface for a clay barrier. At 5-4 ft BGS, the 1-ft thick clay barrier was installed with a compaction test performed on 7/1/2009. The remaining fill was returned to the excavation to ground surface and contoured to the surrounding area. On 7/2/2009, 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 7/8/2009 at 8 ft northwest of the former junction box. The soil bore was advanced to 80 ft BGS with soil samples collected every 5 ft and field tested for chloride concentrations. The 20 and 80 ft samples were sent to a commercial laboratory for analysis of chloride and TPH which confirmed elevated concentrations of chloride and low concentrations of TPH. The entire borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 3/4/2010.

ADDITIONAL EVALUATION IS HIGH PRIORITY

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

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE AND BELIEFSITE SUPERVISOR Jordan Woodfin SIGNATURE Jordan Woodfin COMPANY RICE OPERATING COMPANYREPORT  
ASSEMBLED BY Katie Jones INITIAL KJPROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-8-10

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

# Justis Jct. D-2

Unit D, Section 2, T25S, R37E



excavating the former junction box site

6/11/2009



collecting a soil sample

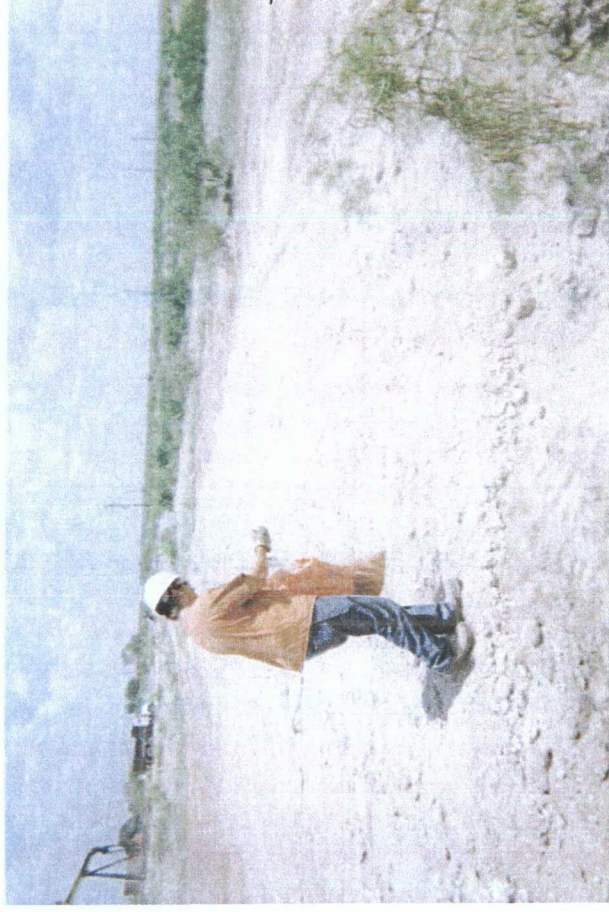
6/11/2009





clay compaction test

7/1/2009



seeding the backfilled site

7/2/2009



drilling SB #1

7/8/2009



plugging SB #1 with bentonite

7/8/2009



<b>Logger:</b>	Lara Weinheimer	<b>Client:</b>	RICE Operating Company	<b>Well ID:</b>
<b>Driller:</b>	Harrison & Cooper, Inc. Drilling	<b>Project Name:</b>	Justis jct. D-2	SB - 1
<b>Drilling Method:</b>	Air rotary	<b>Location:</b>	JUSTIS SWD System	
<b>Start Date:</b>	7-8-09	unit 'D' Sec.2 T25S, R37E		
<b>End Date:</b>	7-8-09	Lea County, NM		
<b>Comments:</b>				
Located: 8 ft north-west of former jct. box site				
TD = 80 ft      Estimated depth to GW = 80 ft				

Depth (feet)	chloride field	PID	Description	Lithology	Soil Bore Construction
			10 - 15 ft VERY FINE TO FINE SAND sandstone rock, orangey-brown, dry		
15	1020	0.1			
			15 - 20 ft VERY FINE TO FINE SAND sandstone particles, dark orangey-brown		
20	4856	0.2			
LAB	5760	DRO < 10 GRO < 10	20 - 25 ft VERY FINE TO FINE SAND brownish-orange, slightly moist		
25	1446	0.2			
			25 - 30 ft VERY FINE TO FINE SAND consol. rock, brownish-orange, slightly moist		
30	658	0.1			
35	354	0.2			
40	444	0.1			
45	287				
50	466		30 - 80 ft VERY FINE TO FINE SAND brownish-orange, slightly moist		
55	737				
60	839				
65	722				
70	647				
75	1080				
80	1055				
LAB	1120	DRO < 10 GRO < 10			

COPY

bentonite  
seal



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

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

Receiving Date: 07/10/09  
Reporting Date: 07/13/09  
Project Owner: NOT GIVEN  
Project Name: JUSTIS JCT. D-2  
Project Location: JUSTIS JCT. D-2

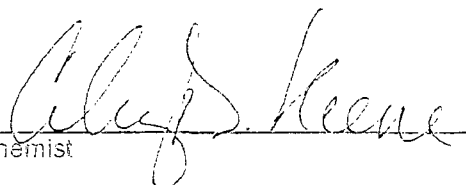
Sampling Date: 07/08/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: CK  
Analyzed By: AB/HM

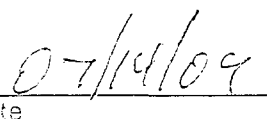
COPY

LAB NUMBER	SAMPLE ID	GRO (C <sub>5</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>29</sub> ) (mg/kg)	CI* (mg/kg)
ANALYSIS DATE		07/10/09	07/10/09	07/10/09
H17779-1	SB #1 @ 20'	<10.0	<10.0	5,760
H17779-2	SB #1 @ 80'	<10.0	<10.0	1,120
Quality Control		598	598	490
True Value QC		500	500	500
% Recovery		120	120	98.0
Relative Percent Difference		19.6	18.3	2.0

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

\*Analyses performed on 1:4 w/v aqueous extracts. Reported on wet weight.

  
Chernist

  
Date

H17779 TOL RICE

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

NEED SAMPLES BACK, PLEASE



# RICE OPERATING COMPANY

122 West Taylor ~ Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

## PID METER CALIBRATION & FIELD REPORT FORM

CK	<input checked="" type="checkbox"/>
MODEL	
NO.	

MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7300	SERIAL NO: 590-000504
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-02920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPIRATION DATE: 8-29-09
FILL DATE: 2-25-08	METER READING ACCURACY: 100.0

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
Justis	Jct D-2	D	2	T25S	R37E

SAMPLE ID: Soil bore #1

**COPY**

DEPTH	PID
15'	0.1
20'	0.2
25'	0.2
30'	0.1
35'	0.2

DEPTH	PID

DEPTH	PID

DEPTH	PID

DEPTH	PID
40'	0.1

DEPTH	PID

DEPTH	PID

DEPTH	PID

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

Signature

*[Signature]*

Date

7-8-09

SITE MAP





# CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR  
RICE OPERATING COMPANY  
ATTN: JORDAN WOODFIN  
122 W. TAYLOR  
HOBBS, NM 88240

Receiving Date: 06/22/09  
Reporting Date: 06/26/09  
Project Number: NOT GIVEN  
Project Name: JUSTIS JCT D-2  
Project Location: JUSTIS JCT D-2

Sampling Date: 06/17/09 & 06/22/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB/HM

COPY

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	DRO (C <sub>10</sub> -C <sub>22</sub> ) (mg/kg)	CI* (mg/kg)
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ANALYSIS DATE		06/25/09	06/25/09	06/23/09
H17680-1	5PT BTM COMP.	<10.0	32.3	1,810
H17680-2	4 WALL COMP.	<10.0	211	240
H17680-3	BLENDED BACKFILL	<10.0	<10.0	128
Quality Control		526	574	490
True Value QC		500	500	500
% Recovery		105	115	98.0
Relative Percent Difference		2.5	3.9	2.0

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

\*Analyses performed on 1:4 w/v aqueous extracts. Reported on wet weight.

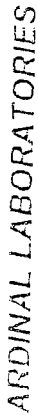
Surrogates for GRO/DRO outside historical limits due to matrix interference.

Chemist

Date

H17680 TOL RICE

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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

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

# RICE OPERATING COMPANY

122 West Taylor Hobbs; NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

✓

Model: PGM 7300

Serial No: 590-000183

Model: PGM 7300

Serial No: 590-000508

Model: PGM 7300

Serial No: 590-000504


Model: PGM 7600

Serial No: 110-023920

Model: PGM 7600

Serial No: 110-013744

Model: PGM 7600

Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPIRATION DATE: 8-29-09
FILL DATE: 2-29-08	METER READING ACCURACY: 100.1

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Justis	D-2	D	2	25S	37E

SAMPLE ID	PID	SAMPLE ID	PID
West Wall	1	Blended Backfill	2.1
South Wall	1.7		
North Wall	7		
EAST Wall	1.7		
4 Wall Comp	3.2		

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

SIGNATURE

*John Wolf*

DATE: 6-22-09



# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:


Model: PGM 7300

Serial No: 590-000183

Model: PGM 7300

Serial No: 590-000508

Model: PGM 7300

Serial No: 590-000504


Model: PGM 7600

Serial No: 110-023920

Model: PGM 7600

Serial No: 110-013744

Model: PGM 7600

Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPIRATION DATE: 8-29-09
FILL DATE: 2-29-08	METER READING ACCURACY: 100

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Justis	D-2	D	2	25s	37E

SAMPLE ID	PID	SAMPLE ID	PID
5pt Bottom comp	6.3		

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

SIGNATURE:

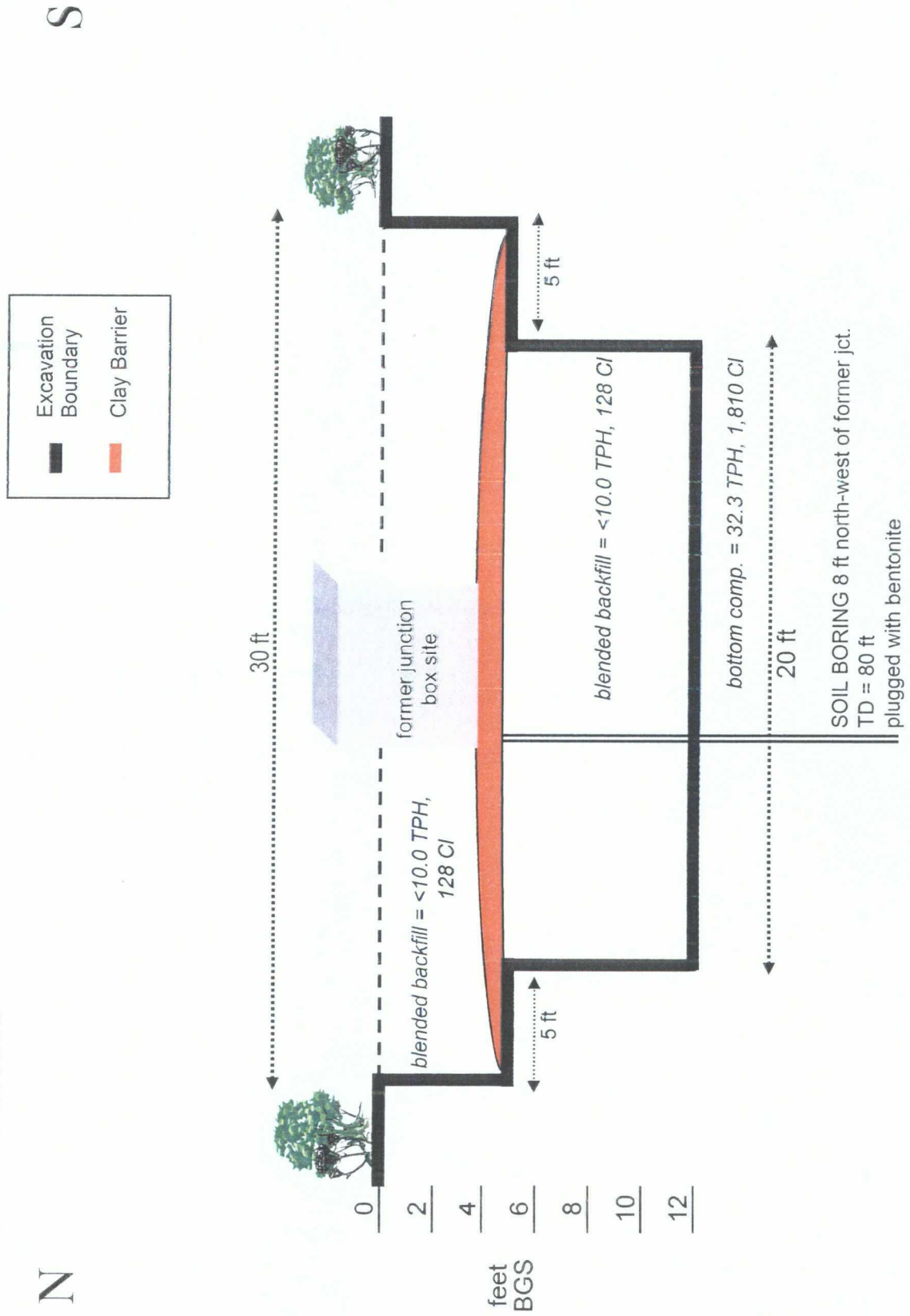
*Jordan Woolf*

DATE:

6-17-09

Justis Jct. D-2  
Unit 'D', Sec. 2, T25S, R37E

# Excavation Cross-Section





LABORATORY TEST REPORT  
PETTIGREW & ASSOCIATES, P.A.  
1110 N. GRIMES  
HOBBS, NM 88240  
(575) 393-9827



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

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

Material: Cooper Red Clay

Test Method: ASTM: D 2922

Project: Justice Junction D-2  
Project No. 2009.1145

Date of Test: July 1, 2009

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 1	Justice Junction D-2 - 6' E. & 15' S. of NW Corner	90.0	15.1	FSG

Control Density: 100.4  
ASTM: D 693

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 815  
PETTIGREW & ASSOCIATES

Lab No.: 09 4073-4074

Copies To: Rice Operating

BY: Erica M. Hart

BY: C. Hicks P.E.

# Justis Jct. D-2

Unit 'D', Sec. 2, T25S, R37E

SOIL BORING samples at 8 ft northeast of the junction (source)

Depth bgs (ft)	Cl, ppm
15	1,020
20	4,856
25	1,446
30	658
35	354
40	444
45	287
50	466
55	737
60	839
65	722
70	647
75	1,080
80	1,055

Groundwater = 80 ft

