

1R - 425-88

**REPORTS**

**DATE:**

3-19-10

1R425-83

Vac Jet A-36  
2009

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APR - 5 2009  
Environmental Services  
Oil Conservation Division

DISCLOSURE

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APR - 6 2010

Environmental Bureau  
Oil Conservation Division

RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	Jct. A-36	A	36	17S	34E	Lea	eliminated.		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 85 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 5/5/2009 Date Completed 5/29/2009 OCD Witness no

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

Soil Disposed 48 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 5/8/2009 Sample Depth 12 ft

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
SOURCE 12' GRAB	0.0	<10.0	<10.0	1,390
5 ft WEST 12' GRAB	1.5	<10.0	<10.0	1,580
5 ft EAST 12' GRAB	0.4	<10.0	<10.0	1,410
5 ft NORTH 12' GRAB	1.4	<10.0	<10.0	3,200
5 ft SOUTH 12' GRAB	0.0	<10.0	<10.0	672
BLENDED BACKFILL	5.4	<10.0	47.7	2,200

LOCATION	DEPTH	mg/kg
source	12'	1,623
5 ft west	12'	1,579
5 ft east	12'	1,300
5 ft north	12'	2,879
5 ft south	12'	598
blended backfill	n/a	1,987
background	6"	196
vertical delineation trench at the junction (source)	3'	478
	4'	358
	5'	261
	6'	288
	7'	440
	8'	299
	9'	399
	10'	616
	11'	647
	12'	690

**General Description of Remedial Action:** This junction box was addressed during the Vacuum SWD System Abandonment. An investigation was conducted at the former junction box site using a backhoe to collect soil samples at regular intervals producing a 10x10x12-ft deep excavation. Chloride field tests were performed on each sample which yielded elevated concentrations. Organic vapors, measured using a PID, yielded low concentrations. The excavated soil was blended on site and a representative composite sample was collected from the blended backfill. The blended backfill composite sample and the deepest sample, 12 ft BGS, from the North, South, East, and West verticals were sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed elevated concentrations of chloride and low concentrations of TPH. The blended backfill was returned to the excavation up to 5 ft below ground surface (BGS). At 5-4 ft BGS, a 1-ft thick clay barrier was installed and a compaction test was performed on 5/29/2009. The remaining fill was returned to the excavation to ground surface and contoured to the surrounding area. On 5/29/2009, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 3/12/2010.

**ADDITIONAL EVALUATION IS MEDIUM PRIORITY**

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

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

SITE SUPERVISOR Jordan Woodfin SIGNATURE Jordan Woodfin COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-19-10

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

# Vacuum Jct. A-36

Unit A, Section 36, T17S, R34E



collecting a soil sample, facing west

5/5/2009



final excavation, facing north

5/8/2009



clay compaction test, facing southeast

5/29/2009



seeding the backfilled site, facing south

5/29/2009



# ARDINAL 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: 05/08/09  
Reporting Date: 05/12/09  
Project Number: NOT GIVEN  
Project Name: VACUUM JCT A-36  
Project Location: VACUUM JCT A-36

COPY

Sampling Date: 05/08/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB/TR

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>25</sub> ) (mg/kg)	
ANALYSIS DATE		05/11/09	05/11/09	05/12/09
H17396-1	SOURCE GRAB @ 12FT	<10.0	<10.0	1,390
H17396-2	5FT WEST 12FT GRAB	<10.0	<10.0	1,580
H17396-3	5FT EAST 12FT GRAB	<10.0	<10.0	1,410
H17396-4	5FT NORTH 12FT GRAB	<10.0	<10.0	3,200
H17396-5	5FT SOUTH 12FT GRAB	<10.0	<10.0	672
H17396-6	BLENDED BACKFILL	<10.0	47.7	2,200
Quality Control		517	432	500
True Value QC		500	500	500
% Recovery		103	86.4	100
Relative Percent Difference		3.0	5.1	< 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.

Chemist

Date

H17396 TCL RICE

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# 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
Vacuum	A-36	A	36	17S	34E

5ft South

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SAMPLE ID	PID	SAMPLE ID	PID
1'	5.5	Backfill	5.4
2'	2.4		
3'	1.9	<del>Backfill</del>	
4'	21.3	5ft North 12ft grab	1.4
5'	17.1	5ft South 12ft grab	0
6'	8.5	5ft EAST 12ft grab	0.4
7'	14.3	5ft West 12ft grab	1.5
8'	7.6	Source grab at 12ft	0
9'	4.5		
10'	1.3		
11'	1.3		
12'	0.7		

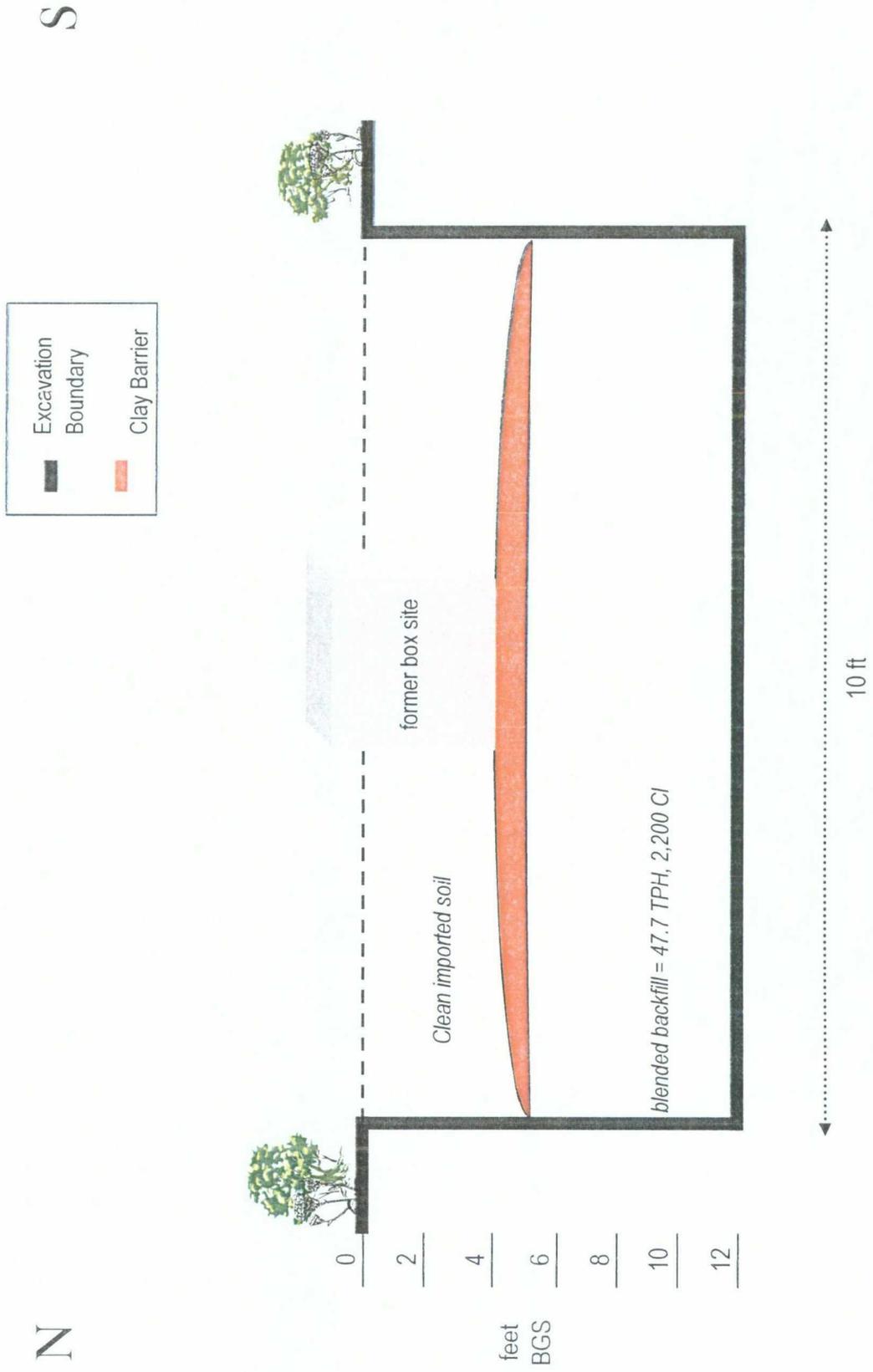
I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

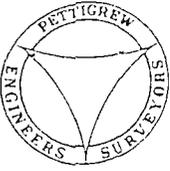
SIGNATURE: 

DATE: 5-8-09

Vacuum Jct. A-36  
Unit 'A', Sec. 36, T17S, R34E

### Excavation Cross-Section





LABORATORY TEST REPORT  
**PETTIGREW & ASSOCIATES, P.C.**  
 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: General Information  
 Project No. 2008.1069

Date of Test: May 29, 2009

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 15	Vacuum JCT A/36 - 6' W. & 5' N. of SE Corner of Pit	90.0	11.9	3' Below Surface

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JUN 13 2009

RISE OPERATING  
 HOBBS, NM

Control Density: 100.4  
 ASTM: D 698

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 815  
 PETTIGREW & ASSOCIATES

Lab No.: 09 3344-3345

Copies To: Rice Operating

BY: Eric M. Hut

BY: Graham P.E.

CHLORIDE CONCENTRATION CURVE

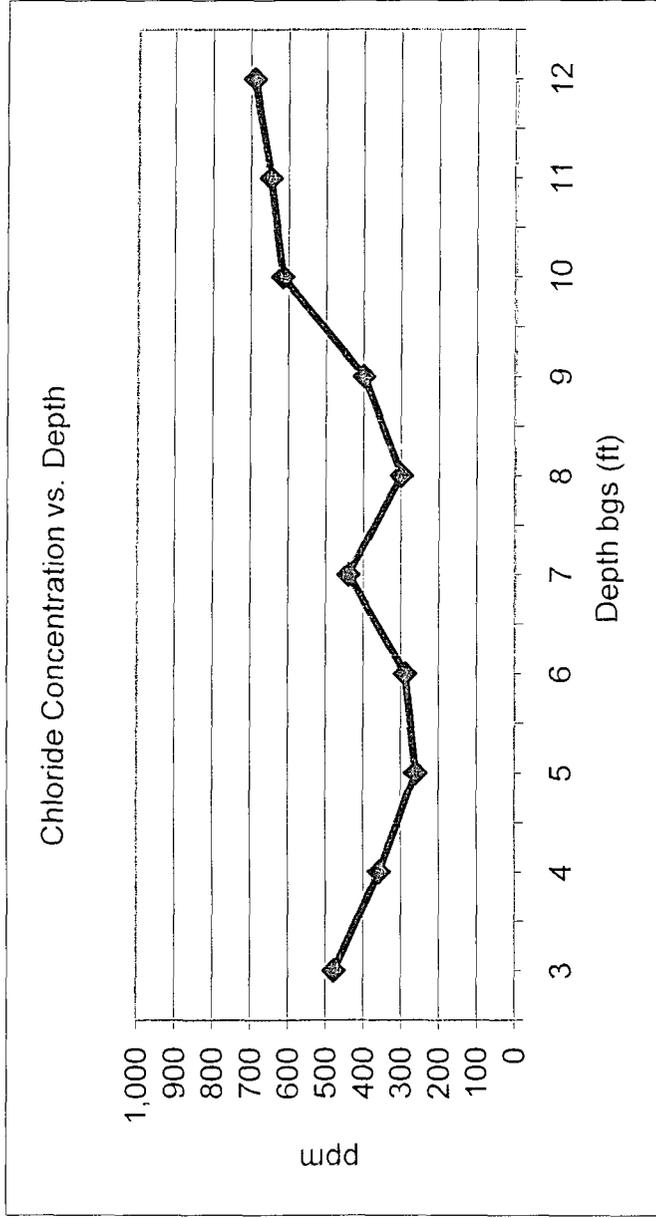
RICE Operating Company

**Vacuum Jct. A-36**

Unit 'A', Sec. 36, T17S, R34E

Backhoe samples at the junction (source)

Depth bgs (ft)	[Cl] ppm
3	478
4	358
5	261
6	288
7	440
8	299
9	399
10	616
11	647
12	690



Groundwater = 85 ft