

1R - 425-81

REPORTS

DATE:

3-8-10

1R425-81

Vac Jet D-31
2009

Received
APR - 15 2009
Environmental Protection
Oil Conservation Division

DISCLOSURE

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

RECEIVED

APR - 6 2010

Environmental Bureau
Oil Conservation Division

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Vacuum	Jct. D-31	D	31	17S	35E	Lea	Length	Width	Depth
							eliminated		

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

Depth to Groundwater 117 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 2/18/2009 Date Completed 4/17/2009 OCD Witness no

Soil Excavated 133.3 cubic yards Excavation Length 10 Width 30 Depth 12 feet

Soil Disposed 132 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 3/23/2009 Sample Depth 12 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.	19.2	<10.0	966	3,320
BOTTOM COMP.	32.6	<10.0	1,130	2,840
BLENDED BACKFILL	22.4	<10.0	1,180	1,070

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	2,332
bottom comp.	12'	3,241
blended backfill	n/a	1,172
background	6"	194
vertical delineation trench 20 ft North of the junction (source)	6'	3,373
	7'	5,501
	8'	5,225
	9'	5,239
	10'	5,446
	11'	5,716
	12'	6,249

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 using a backhoe to collect soil samples at regular intervals creating a 10x30x12-ft excavation. Chloride field tests were performed on each sample which yielded elevated concentrations that did not relent with depth. Organic vapors were analyzed using a PID which yielded some elevated concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed elevated concentrations of chloride. The excavated soil was blended on site and 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 with a compaction test performed on 4/17/2009. Clean, imported soil was used to backfill the excavation to ground surface and to contour to the surrounding area. On 6/8/2009, 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 11/11/2009.

ADDITIONAL EVALUATION IS LOW PRIORITY

enclosures: photos, 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 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 3-8-10

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

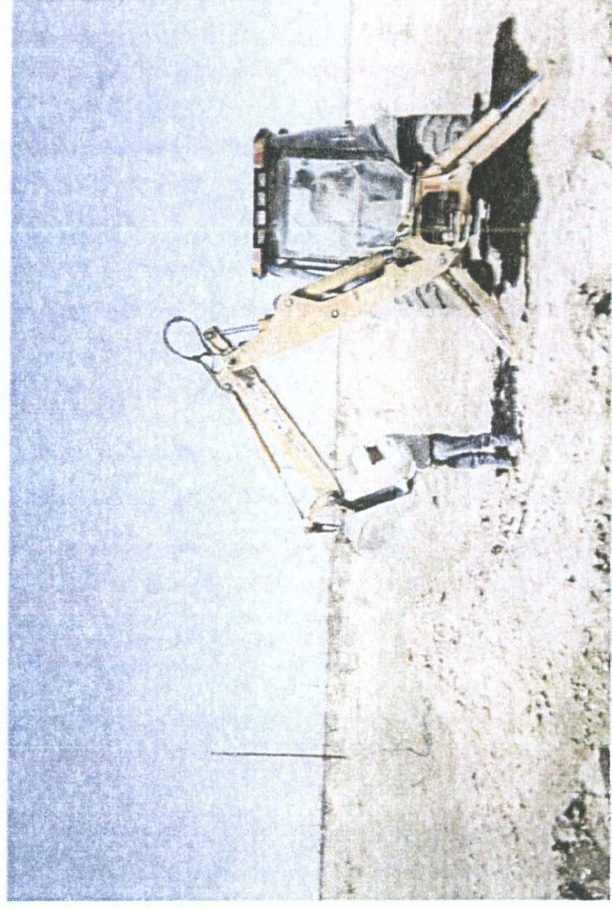
Vacuum Jct. D-31

Unit D, Section 31, T17S, R35E



site prior to excavation, facing north

2/18/2009



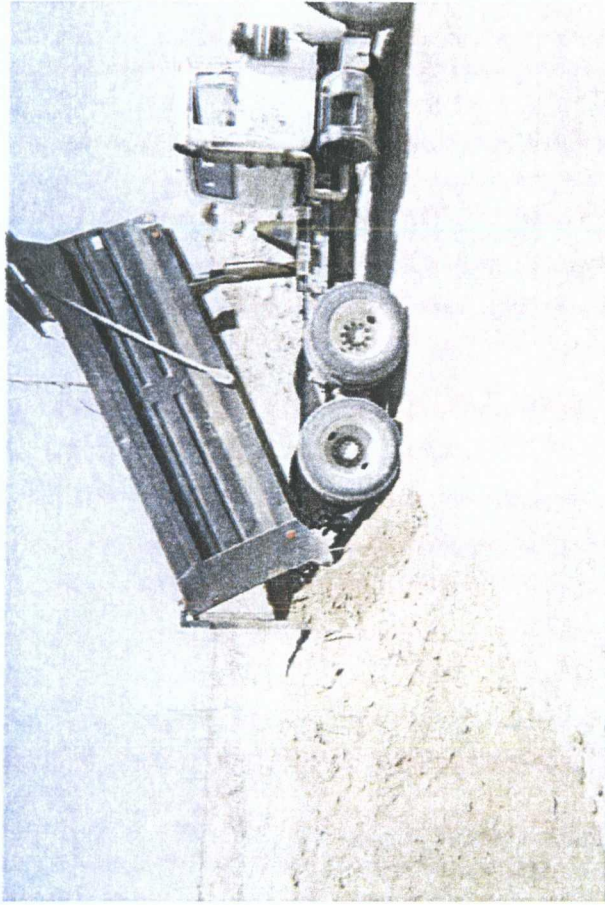
collecting a soil sample, facing north

3/16/2009



final excavation, facing south

3/23/2009



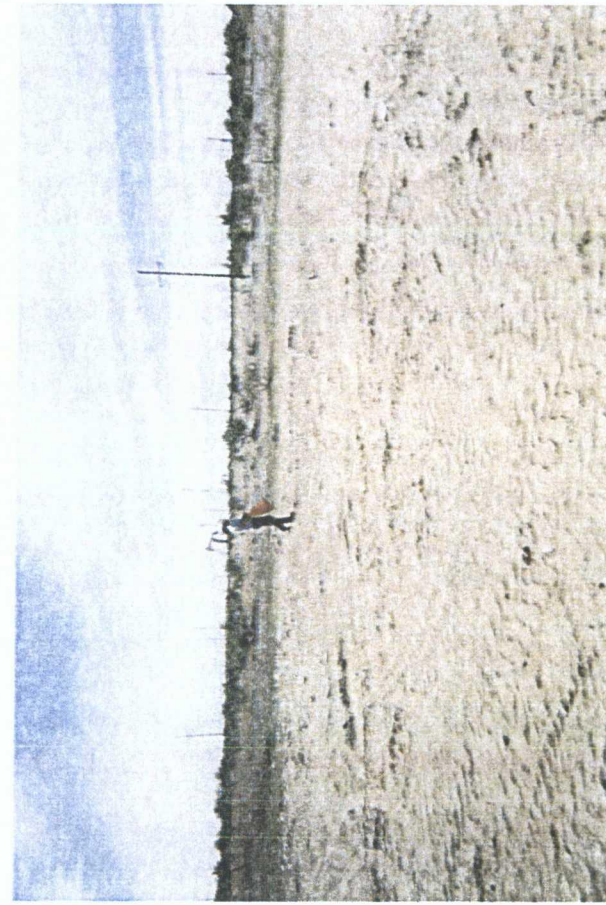
hauling in fresh soil, facing east

3/26/2009



compaction test of the clay barrier, facing northwest

4/17/2009



seeding backfilled site, facing north

6/8/2009



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

COPY

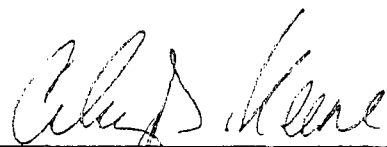
Receiving Date: 03/23/09
Reporting Date: 03/25/09
Project Number: NOT GIVEN
Project Name: VACUUM JCT D-31
Project Location: VACUUM JCT D-31

Sampling Date: 03/23/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/TR

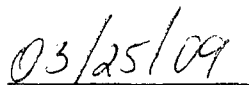
LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀)	DRO (C ₁₀ -C ₂₉)	CI*
		(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE		03/24/09	03/24/09	03/24/09
H17106-1	BLENDED BACKFILL	<10.0	1,180	1,070
H17106-2	4 WALL COMP.	<10.0	966	3,320
H17106-3	5 PT. BOTTOM COMP.	<10.0	1,130	2,840
Quality Control		451	506	490
True Value QC		500	500	500
% Recovery		90.2	101	98.0
Relative Percent Difference		2.0	2.6	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.



Chemist



Date

H17106 TCL RICE

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CARDINAL LABORATORIES

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

COPY

✓

Model: PGM 7300

Model: PGM 7300

Model: PGM 7300

Serial No: 590-000183

Serial No: 590-000508

Serial No: 590-000504

Check Model Number:

Model: PGM 7600

Model: PGM 7600

Model: PGM 7600

Serial No: 110-023920

Serial No: 110-013744

Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPIRATION DATE: 18-29-09
FILL DATE: 2-29-08	METER READING ACCURACY: 100

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	D-31	D	31	17s	35E

SAMPLE ID	PID	SAMPLE ID	PID
4 wall Comp	19.2		
5pt Bottom Comp.	32.6		
Blended Backfill	22.4		

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

SIGNATURE:

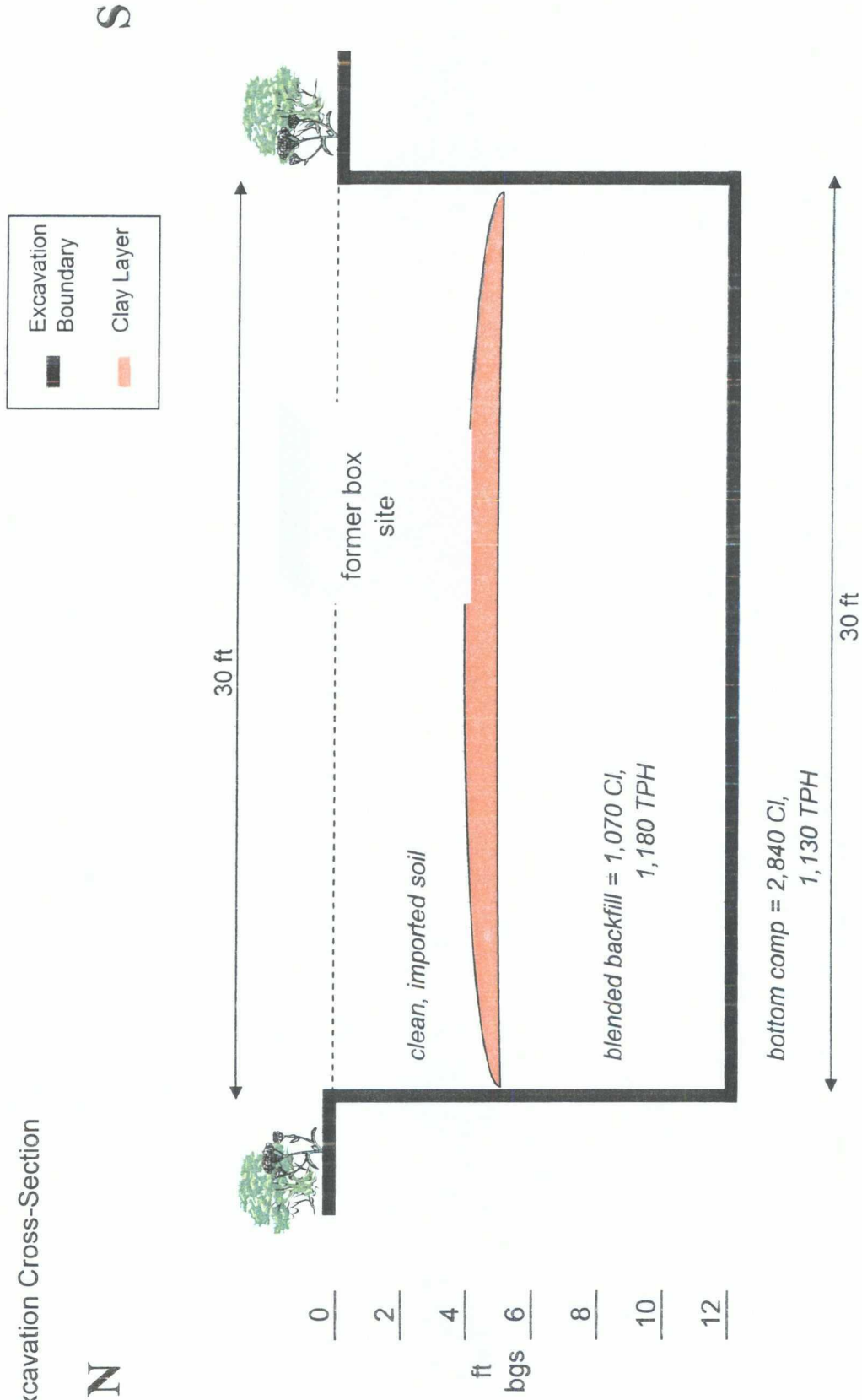
Jordan Woodly

DATE:

3-23-09

Vacuum Jct. D-31 Unit 'D', Section 31, T17S, R35E

Excavation Cross-Section





*Corrected Report 11/19/09
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: Hack Conder
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: April 17, 2009

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 12	Vacuum Jct. D/31 15' E. & 5' S. of NW Corner of Pit	91.3	10.1	3' Below Surface

COPY

Control Density: 100.4
ASTM: D 698

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 815
PETTIGREW & ASSOCIATES

Lab No.: 09 2554

Copies To: Rice Operating

BY: Ericam Hart

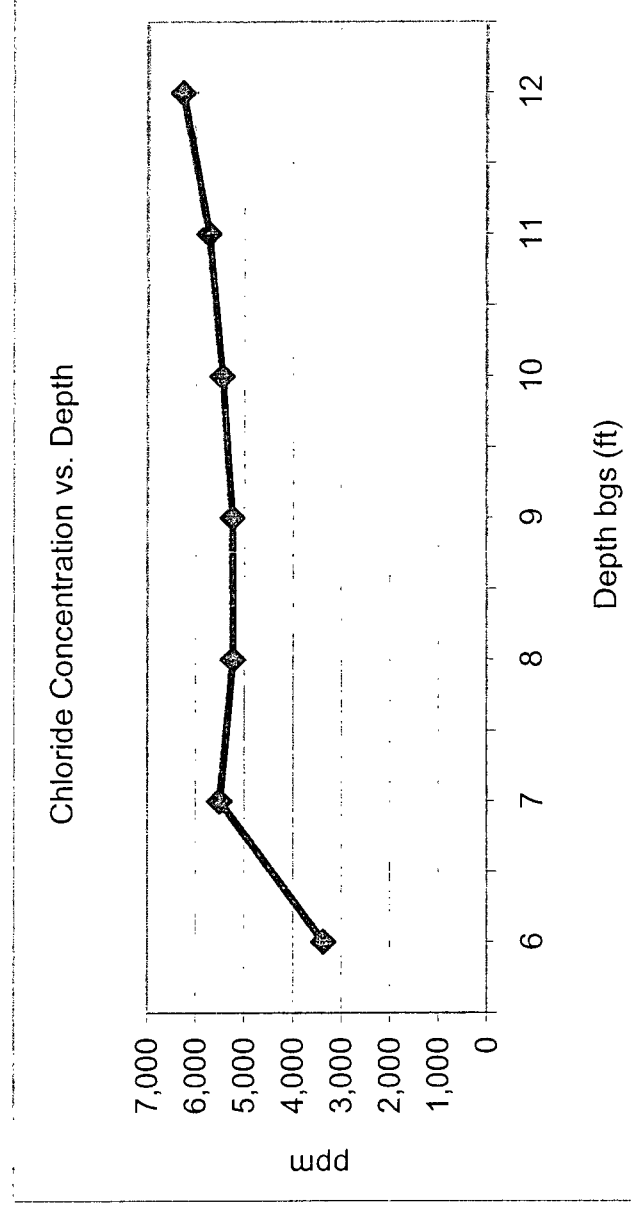
BY: C. J. [Signature] P.E.

Vacuum Jct. D-31

Unit 'D', Sec. 31, T17S, R35E

Backhoe samples at 20 ft North of the junction (source)

Depth bgs. (ft.)	[Cl] ppm
6	3,373
7	5,501
8	5,225
9	5,239
10	5,446
11	5,716
12	6,249



Groundwater = 117 ft