

1R - 426-215

REPORTS

DATE:

1-21-09

BD Jct N-20

1R426-215

RECEIVED
MAR 2 1986
Environmental Studies
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
Blinebry-Drinkard (BD)	Jct. N-20	N	20	21S	37E	Lea	moved 25 ft north		

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Millard Deck OTHER _____

Depth to Groundwater 99 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 3/8/2007 Date Completed 4/18/2007 OCD Witness no

Soil Excavated 277.8 cubic yards Excavation Length 25 Width 25 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 3/14/2007, 3/15/2007, 4/18/2007 Sample Depth 12 ft, 75 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.	0.0	<10.0	<10.0	1070
BOTTOM COMP.	3.5	<10.0	<10.0	2000
BACKFILL	5.5	<10.0	10.1	944
SOIL BORE #1				624
SOIL BORE #2				752

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1121
bottom comp.	12'	1859
backfill	n/a	912
vertical delineation trench at junction (source)	2'	235
	3'	291
	4'	259
	5'	477
	6'	355
	7'	1140
	8'	1188
	9'	1584
	10'	1790
	11'	1650
12'	1841	

General Description of Remedial Action: This junction was addressed under the pipe-line replacement/upgrade program. A new, watertight junction box was installed 25 ft north of the former. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 25x25x12-ft-deep hole. Each sample was field tested for chlorides and organic vapors. Field chloride tests yielded elevated concentrations of chloride that did not relent with depth. Representative composite samples were sent to a commercial laboratory for analysis. The excavated soil was then blended on site and return to the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed.

The remaining fill was used to backfill the excavation to ground surface and 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 3/16/2007, 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, two soil borings were initiated on 4/18/2007 at the former junction box site and 15 ft east of the former box site. Each boring was advanced to 75 ft BGS while soil samples were collected every 5 ft and tested for chloride concentrations. The deepest sample, 75 ft BGS, was sent to a commercial laboratory for analysis. Each bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on 7/25/2008.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, cross-section, lab results, PID screenings, boring data, chloride graph

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 KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE [Signature] DATE 1-21-09

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

BD Jct. N-20

Unit N, Section 20, T21S, R37E



excavation site, facing east

3/14/2007



backfilled site up to 6 ft BGS with new, watertight box in background

3/15/2007



backfilling excavation site up to 6 ft BGS, facing north

3/15/2007



clay barrier, facing east

3/15/2007

BD Jct. N-20

Unit N, Section 20, T21S, R37E



site complete, prior to seeding with new,
watertight box in background, facing north

3/16/2007



seeding backfilled site, facing south

3/16/2007



clay marker, facing north

3/16/2007



soil boring 15 ft east of former junction box, facing north

4/18/2007

BD Jct. N-20

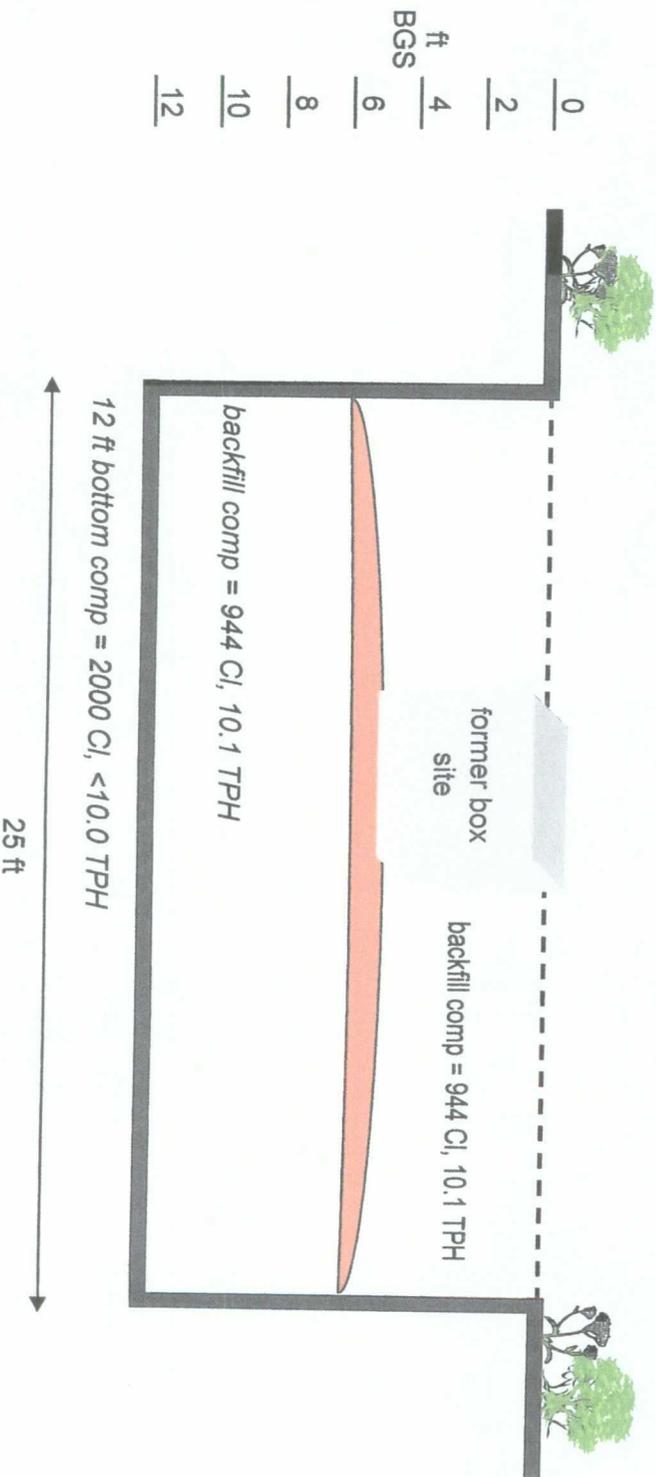
Unit N, Section 20, T21S, R37E

Excavation Cross-Section

W



E

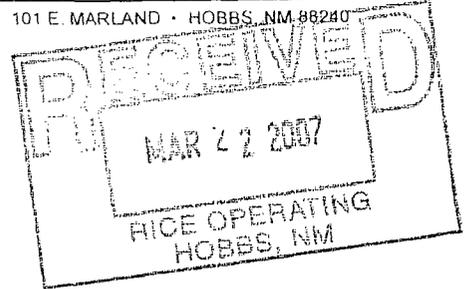




ARDINAL LABORATORIES

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

Receiving Date: 03/15/07
Reporting Date: 03/19/07
Project Number: NOT GIVEN
Project Name: B.D. JCT. N-20
Project Location: NOT GIVEN

Sampling Date: 03/14 & 03/15/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

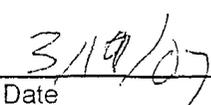
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LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		03/15/07	03/15/07	03/18/07
H12343-1	BTTM. 5 PT. COMP. @ 12'	<10.0	<10.0	2000
H12343-2	4 WALL COMP. @ 25'x25'	<10.0	<10.0	1070
H12343-3	BLENDED BACKFILL	<10.0	10.1	944
Quality Control		742	760	480
True Value QC		800	800	500
% Recovery		92.8	95.0	96.0
Relative Percent Difference		2.5	1.7	4.1

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

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


Chemist


Date

H12343

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 analysis. 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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
 (325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

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Page of

BILL TO										ANALYSIS REQUEST									
Company Name: <u>Rice Operating Co.</u>																			
Project Manager: <u>Roy R. Rascoe</u>																			
Address: <u>122 W. Taylor</u>																			
City: <u>Hobbs</u>																			
State: <u>N.M.</u> Zip: <u>88240</u>																			
Phone #: <u>505) 393-9174</u>																			
Fax #: <u>505) 397-1471</u>																			
Project #: <u> </u>																			
Project Name: <u>B.D. Jct. N-20</u>																			
Project Location: <u> </u>																			
Sampler Name: <u>Nicol Carnone</u>																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASIN	ICE/COOL	OTHER:	PRESERV.	MATRIX	DATE	TIME	TPH			
H123456	Btm. Spt. Comp. @ B1	C 1	1	✓		✓			✓					3-14-07	1:30 AM.	✓			
-2	4 wall Comp. @ 25' x 25'	C 1	1	✓		✓			✓					3-15-07	12:00 PM.	✓			
-3	Blended Backfill	C 1	1	✓		✓			✓					3-15-07	11:00 AM.	✓			

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of notice, and all costs of collections, including attorney's fees.

Received By: Date: Time:

Received By: (Lab Staff) Date: 3/15/07 Time: 4:30

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Phone Result: Yes No Fax Result: Yes No

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.



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 RASCON
 122 W. TAYLOR
 HOBBS, NM 88240
 FAX TO: (505) 397-1471

COPY

Receiving Date: 04/20/07
 Reporting Date: 04/20/07
 Project Number: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: BD N-20

Analysis Date: 04/20/07
 Sampling Date: 04/18/07
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H12486-1	SB #1 @ 75' 15' E	624
H12486-2	SB #2 @ 75' at former jct.	752
Quality Control		480
True Value QC		500
% Recovery		96
Relative Percent Difference		2.1

METHOD: Standard Methods 4500-Cl⁻B

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

[Signature]
 Chemist

04-20-07
 Date

H12486

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 analysis. 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.

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240
Phone: (505) 393-9174 Fax: (505) 397-1471

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VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.
MODEL
NO.

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

MODEL: PGM 761S
MODEL: PGM 7600
MODEL: PGM 7600
MODEL: PGM 7600

SERIAL NO: 104412
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-012920

LOT NO: 05-2492
FILL DATE: 11-28-05
ACCURACY: +/- 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

EXP. DATE: 5-28-07

METER READING ACCURACY: 100.0

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
BD	N-20	N	20	215	37E

SAMPLE		PID Results	Sample		PID Results
N. WALL	1	8.9	E. WALL	1	1.2
	2	3		2	0.5
	3	0		3	0
	4	0.3		4	3.1
	5	0.3		5	0
N. WALL Comp.		0.8	E. WALL Comp.		0.1
S. WALL	1	1.6	W. WALL	1	0.9
	2	0		2	1.5
	3	2.2		3	1
	4	8.2		4	0.7
	5	0.3		5	0
S. WALL Comp.		10.4	W. WALL Comp.		3.3
4 WALL Comp.		0			

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

SIGNATURE: 

DATE: 3-14-07

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240
Phone: (505) 393-9174 Fax: (505) 397-1471

COPY

VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.
MODEL
NO.

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

MODEL: PGM 761S
MODEL: PGM 7600
MODEL: PGM 7600
MODEL: PGM 7600

SERIAL NO: 104412
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-012920

LOT NO: 05-2992
FILL DATE: 4-28-05
ACCURACY: +/- 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE
EXP. DATE: 5-28-07
METER READING ACCURACY: 100.0

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
BD	N-20	N	20	21S	37E

SAMPLE	PID Results	Sample	PID Results
5 FT BTM	3.5		
BTM	1.9		
	2		
	3		
	4		
	5		
BTM Comp			
Blended Backfill	5.5		

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

SIGNATURE: 

DATE: 3-14-07

CHLORIDE CONCENTRATION CURVE

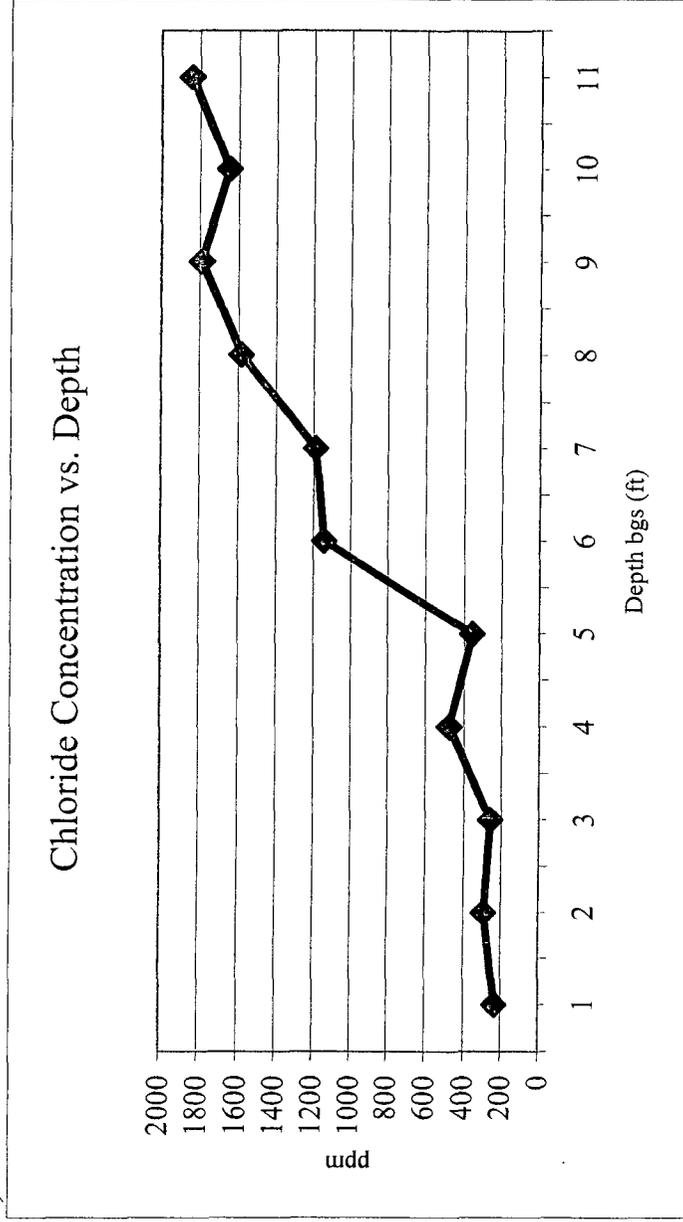
RICE Operating Company

BD Jct. N-20

unit 'N', Sec. 20, T21S, R37E

Backhoe samples at junction (source)

Depth bgs. (ft)	[Cl] ppm
2	235
3	291
4	259
5	477
6	355
7	1140
8	1188
9	1584
10	1790
11	1650
12	1841



Groundwater = 99 ft