

1R - 426-215

# REPORTS

DATE:

1-21-09

45

BD Jct N-20

1R426-215

RECEIVED

MAR 2 1990  
Environmental Response  
Oil Conservation Division

Disclosure

RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Blinebry-Drinkard (BD)	Jct. N-20	N	20	21S	37E	Lea	Length	Width	Depth
							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 \_\_\_\_\_ COMPANY \_\_\_\_\_ RICE OPERATING COMPANY \_\_\_\_\_

REPORT  
ASSEMBLED BY \_\_\_\_\_ Katie Jones \_\_\_\_\_ INITIAL \_\_\_\_\_ KJ \_\_\_\_\_

PROJECT LEADER \_\_\_\_\_ Larry Bruce Baker Jr. \_\_\_\_\_ 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

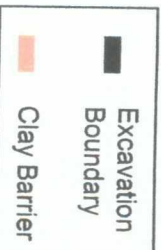
4/18/2007

# BD Jct. N-20

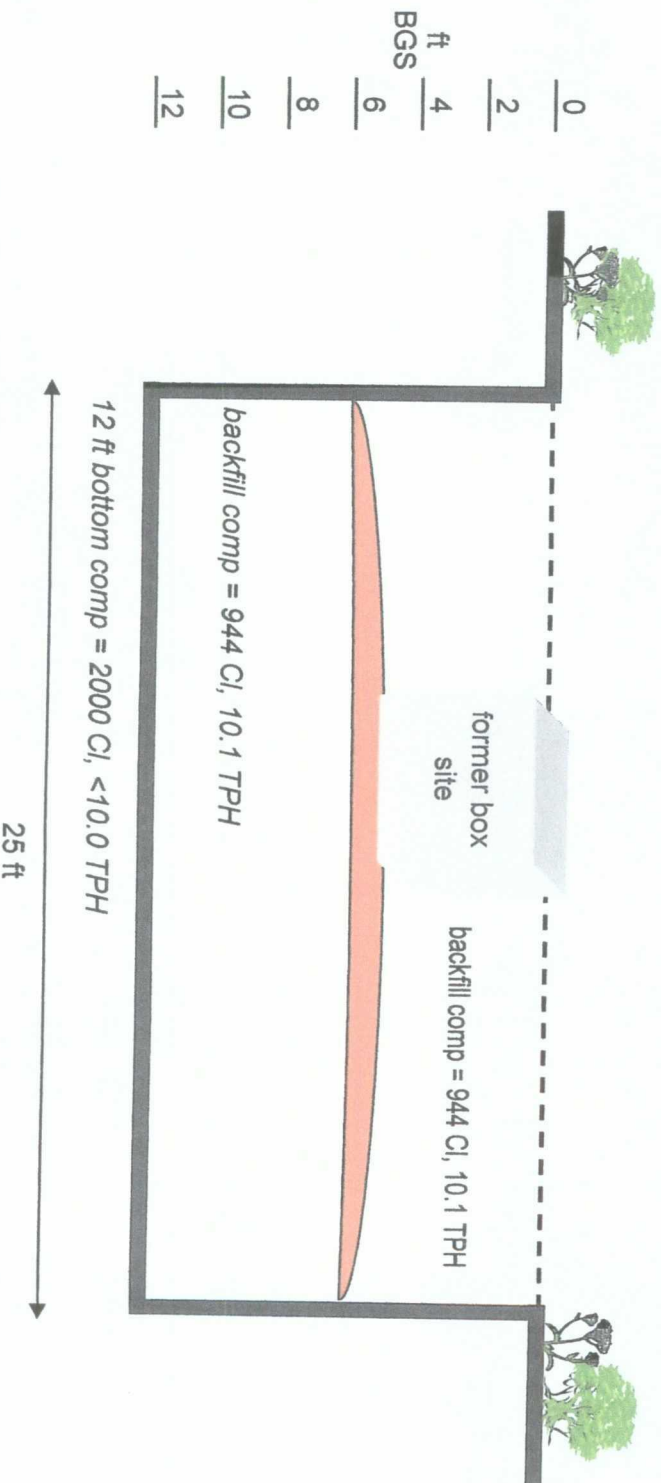
Unit N, Section 20, T21S, R37E

## Excavation Cross-Section

W



E



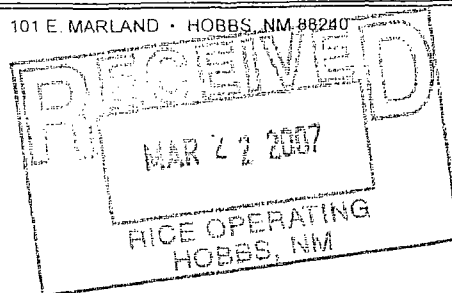


# ARDINAL LABORATORIES

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

# COPY

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

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
		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; CI: Std. Methods 4500-CI/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.







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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 <sup>-</sup> (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<sup>-</sup>B

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

  
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 analytical 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

Page 1

1525) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2478

Cardinal cannot accept a data change. Please say willen changes to (JTS) 673-7020.

# 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.

☐  
☒  
☐  
☐

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: [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	1.9	
	2	1.2	
	3	3.5	
	4	4.7	
	5	3.9	
<del>BTM Comp</del>			
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

# COPY

## SOIL BORE DATA SHEET

SYSTEM: BD		LOCATION: N-20 JCT		LANDOWNER:	
DGW: 99ft	GPS: 32°27.523N 103°11.086W			SB/MW ID: SB #2	
UL N	SEC. 20	TOWNSHIP 21S		RANGE 37E	

DEPTH(ft)	SOIL	WATER	RATIO	AgNO <sub>3</sub>	Cl <sup>-</sup>	PID	TIME	SAMPLE DESCRIPTION
15	10.7	30.6	2.86	1.06	3030	N/A	12:00	Red/tan;dry;F/VFG sand; uncon; generally well srted but w/ pebbles (0.5-1cm) of caliche and well cmted sand
20	10.1	30.8	3.05	1.01	3079	N/A	12:02	Tan;dry;VFG sand; uncon;well srted; tr pebbles of well cmted sand
25	10.5	31.2	2.97	0.88	2614	N/A	12:04	Same as 20'
30	10.2	30.3	2.97	0.82	2435	N/A	12:06	Reddish/tan;dry;VFG sand;uncon;well srted
35	10.3	30.8	2.99	0.63	1883	N/A	12:09	Red;dry;VFG sand;uncons;well srted
40	10.9	30.7	2.82	0.58	1633	N/A	12:12	Same as 35'
45	10.4	30.4	2.92	0.55	1607	N/A	12:14	Same as 35'
50	10.5	30.3	2.89	0.42	1212	N/A	12:16	Same as 35'
55	10.2	30.2	2.96	0.35	1036	N/A	12:18	Same as 35'
60	10.6	30.5	2.88	0.36	1036	N/A	12:20	Same as 35'
65	10	30.3	3.03	0.26	788	N/A	12:22	Same as 35'
70	10.7	30.2	2.82	0.25	705	N/A	12:24	Red,damp,VFG sand;uncon;well srted
75	10	30.2	3.02	0.23	694	N/A	12:26	Red,damp,VFG sand;uncon;well srted;tr small (0.5-1cm) pebbles of well cmted sand

TD @ 75 ft.

NOTES: 75' sample jarred for lab analysis (Chlorides)

SIGNATURE: Tony Grieco DATE: 4/18/2007



COPY

## SOIL BORE DATA SHEET

SYSTEM: BD		LOCATION: N-20 JCT		LANDOWNER:	
DGW: 99ft	GPS: 32°27.523N 103°11.085W			SB/MW ID: SB #1	
UL N	SEC. 20	TOWNSHIP 21S		RANGE 37E	

DEPTH(ft)	SOIL	WATER	RATIO	AgNO <sub>3</sub>	Cl <sup>-</sup>	PID	TIME	SAMPLE DESCRIPTION
15	10	30.6	3.06	0.8	2447	N/A	9:04	Red;dry;pred F/VFG sand; uncon; some larger pebbles of caliche
20	10.1	30.3	3.00	0.85	2549	N/A	9:09	Red;dry;VFG sand; uncon; well srted
25	10.3	30.1	2.92	1.05	3067	N/A	9:13	Tan;dry; VFG sand; uncon; well srted
30	10.6	30	2.83	0.74	2094	N/A	9:14	Same as 25'
35	10.1	30.8	3.05	0.45	1372	N/A	9:15	Same as 25'
40	10.8	30.7	2.84	0.48	1364	N/A	9:33	Same as 25'
45	10.2	30.4	2.98	0.45	1341	N/A	9:37	Same as 25'
50	10	30.2	3.02	0.45	1359	N/A	9:40	Same as 25'
55	10.9	30.3	2.78	0.42	1167	N/A	9:54	Red/tan;dry;VFG sand;uncons;well srted
60	10.1	30.3	3.00	0.37	1110	N/A	9:57	Same as 55'
65	10.7	31.3	2.93	0.21	614	N/A	10:10	Red;dry;generally VFG sand;uncon;well srted; some 0.5-3cm pebbles of well cmted sand
70	10.7	30.6	2.86	0.2	572	N/A	10:13	Same as 65'
75	10.1	31.8	3.15	0.2	630	N/A	10:15	Red;moist;otherwise same as 70'

TD @ 75 ft.

NOTES: Plugged with 4 bags of bentonite  
75' sample jarred for lab analysis (chlorides)

SIGNATURE: Tony Grieco DATE: 4/18/2007

# CHLORIDE CONCENTRATION CURVE

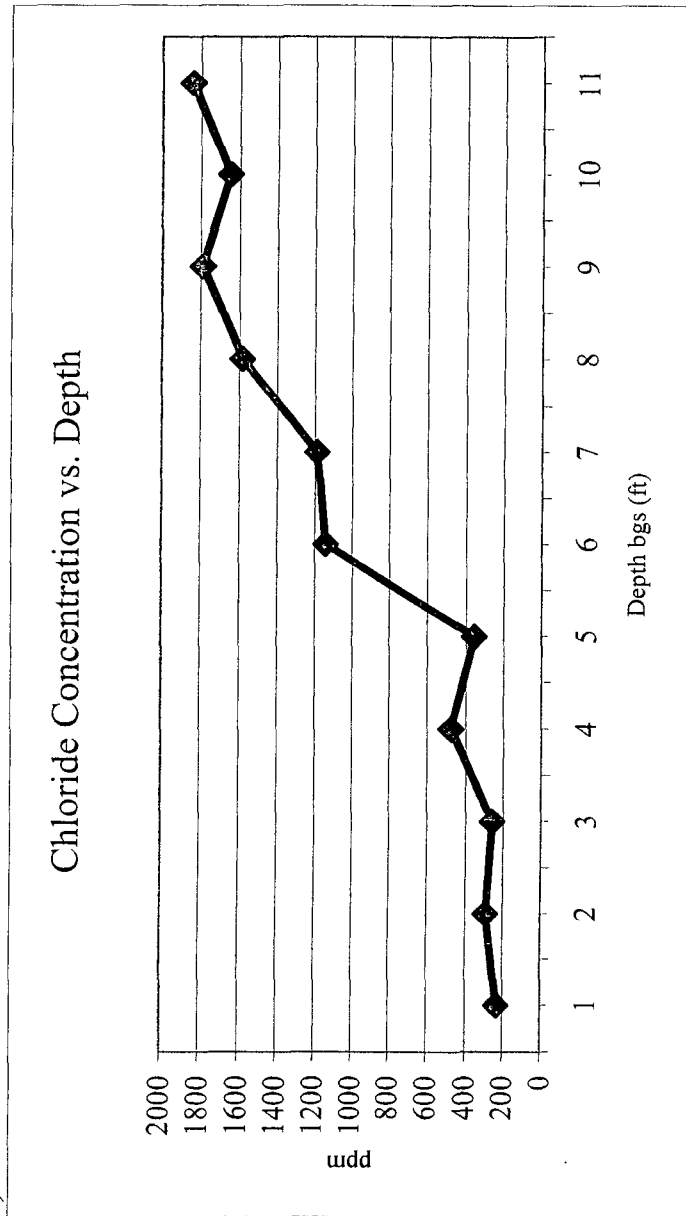
RICE Operating Company

## 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