

1R - 426-251

# REPORTS

DATE:

3-25-10

BD B-15 EOL  
2009

RECEIVED

1R426-251

APR - 5 2009  
Environmental Survey  
Oil Conservation Division

**DISCLOSURE**

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

RECEIVED

APR - 6 2009

Environmental Bureau  
Division

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
BD	B-15 EOL	B	15	22S	37E	Lea			
							new watertight box (same place)		

LAND TYPE: BLM STATE FEE LANDOWNER Benjamin Galindo et ux Lupe J.T. OTHER

Depth to Groundwater 117 feet NMOCD SITE ASSESSMENT RANKING SCORE: 30\*

Date Started 9/30/2009 Date Completed 11/6/2009 OCD Witness: no

Soil Excavated 51.9 cubic yards Excavation Length 10 Width 10 Depth 14 feet

Soil Disposed 84 cubic yards Offsite Facility Sundance Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 10/06/2009, 11/06/2009 Sample Depth 9 ft., 57 ft., 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.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SB#1 @ 9'	1.8	<10.0	<10.0	1620
SB#1 @ 57'	4.7	<10.0	<10.0	1260
4-WALL COMP.	9.0	<10.0	373	368
BOTTOM COMP.	86.0	<10.0	489	304

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	356
bottom comp.	14'	312
Soil bore 9 ft. west of the junction box	3'	849
	6'	667
	9'	1518
	12'	1029
	15'	1455
	18'	1406
	21'	1255
	24'	970
	27'	657
	30'	731
	33'	552
	36'	600
	39'	627
	42'	780
	45'	1119
	48'	1017
	51'	479
	54'	926
	57'	568
	60'	871

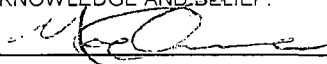
**General Description of Remedial Action:** This junction was addressed under the pipeline replacement/upgrade program. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 10x10x14-ft deep hole. Each sample was field tested for chlorides and organic vapors. Field tests yielded low chloride concentrations and some organic vapors were detected. Representative composite samples were sent to a commercial laboratory for analysis. The excavated soil was then exported to a NMOCD approved facility for disposal. The excavation was backfilled with clean imported soil. A new watertight box was installed in the same location. To further investigate the depth of TPH presence, a soil boring was initiated on 11/06/2009 at 9 ft. west of junction box. The boring was advanced to 60 ft. BGS, while soil samples were collected every 3 ft and tested for chloride concentrations and organic vapors. The 9 ft. and 57 ft. samples were sent to a commercial laboratory for analysis. The soil bore was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on 3/08/2010.

\* Domestic wells 900 ft. west and 900 ft. southwest

**ADDITIONAL EVALUATION IS HIGH PRIORITY**

enclosures: photos, lab analysis, PID (field) screenings, soil bore log, chloride curve

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

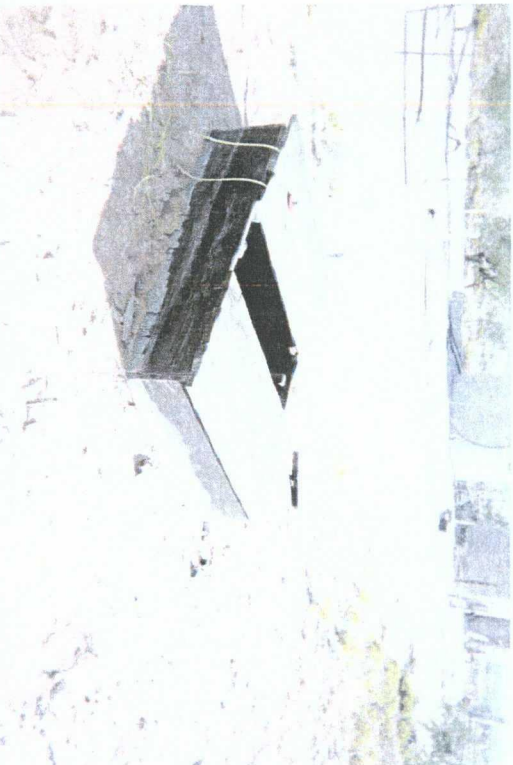
REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE  DATE 3-25-10

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

# BD B-15 EOL

Unit B, Section 15, T22S, R37E



former junction box, facing north

9/30/2009



10x10x14-ft excavation, facing southwest

10/2/2009



collecting a soil sample


10/11/2009




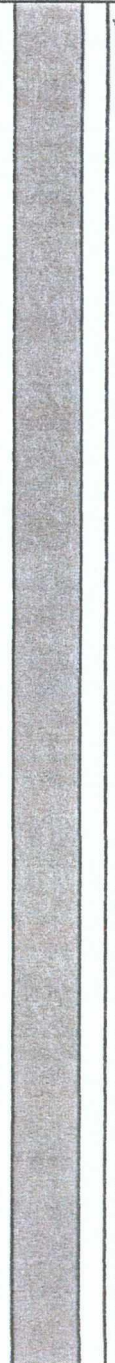



drilling SB #1 and  
the new, watertight junction box

11/6/2009



<b>Logger:</b>	Lara Weinheimer				
<b>Driller:</b>	Harrison & Cooper, Inc. Drilling				
<b>Consultant:</b>	N/A - ROC junction box upgrade plan				
<b>Drilling Method:</b>	Air rotary and split spoon				
<b>Start Date:</b>	11/6/2009				
<b>End Date:</b>	11/6/2009			<b>Project Name:</b>	<b>Well ID:</b>
<b>Comments:</b> Split spoon sampling at 9 ft. All other were from air rotary cuttings. Located 9 ft west of the frmr. jct. box site. Drafted by: Lara Weinheimer TD = 60 ft      GW = 117 ft				BD B-15 EOL	SB #1
				<b>Location:</b> UL/B sec. 15 T22S R37E	
				<b>Lat:</b> 32°23'50.538"N	<b>County:</b> Lea
				<b>Long:</b> 103°8'49.828"W	<b>State:</b> NM

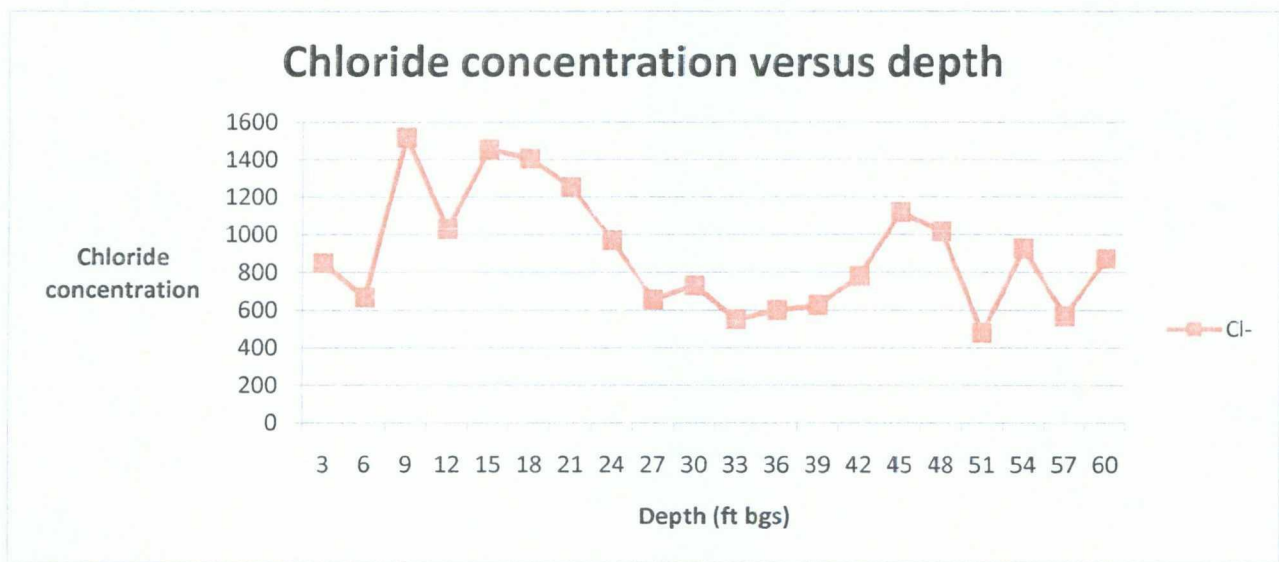
Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
				0 - 3 ft		
				VERY FINE TO FINE SAND AND CALICHE		
3	849		0.8	dark brown, dry, no odor		
				3 - 6 ft		
				VERY FINE TO FINE SAND AND CALICHE		
6	667		3.9	brown, dry, slight odor		
				6 - 12 ft		
				VERY FINE TO FINE SAND; SANDSTONE AND CALICHE		
9	1518	CI-1520	1.8	orangey brown, slightly moist, no odor		
		GRO <10.0				
		DRO <10.0				
12	1029		1.2			
15	1455		1.7	12 - 24 ft		
				VERY FINE TO FINE SAND AND CALICHE		
18	1406		2	light orangey brown, dry, no odor		
21	1255		3.2			
24	970		2.2			

				24 - 27 ft					
				VERY FINE TO FINE SAND					
27	657		2.6	orangey brown, slightly moist, no odor					
				27 - 30 ft					
				VERY FINE TO FINE SAND; CONSOLIDATED ROCK					
30	731		1.2	light orangey brown, dry, no odor					
				30 - 39 ft					
33	552		2.1	VERY FINE TO FINE SAND; SANDSTONE					
				light orangey brown, dry, no odor					
36	600		3.5						
39	627		3.4						
				39 - 45 ft					
42	780		4.2	VERY FINE TO FINE SAND; SANDSTONE					
				light brown, dry, no odor					
45	1119		4.7						
				45 - 51 ft					
48	1017		4.3	VERY FINE TO FINE SAND; SANDSTONE					
				orangey brown, slightly moist, no odor					
51	479		6.1						
				51 - 54 ft					
				VERY FINE TO FINE SAND					
54	926		5	light brown, dry, no odor					

bentonite  
seal



				54 - 57 ft					
				VERY FINE TO FINE SAND; SANDSTONE					
57	568	Cl- 1260	4.7	light brown, dry, no odor					
		GRO <10.0							
		DRO <10.0							
60	871		4.3	57 - 60 ft					
				CHINLE CLAY					
				red bed					





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: 11/06/09  
Reporting Date: 11/11/09  
Project Owner: NOT GIVEN  
Project Name: BD B-15 EOL  
Project Location: BD B-15 EOL

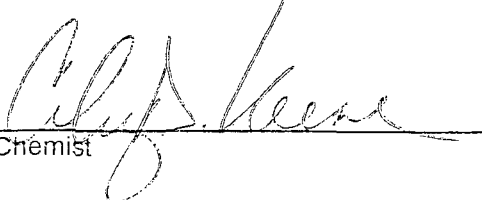
Sampling Date: 11/06/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB/HM

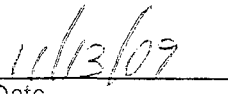
LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	
		(mg/kg)	(mg/kg)	(mg/kg)

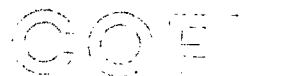
ANALYSIS DATE	11/10/09	11/10/09	11/10/09
H18681-1 SB#1 @ 9'	<10.0	<10.0	1,620
H18681-2 SB#1 @ 57'	<10.0	<10.0	1,260
Quality Control!	448	508	500
True Value QC	500	500	500
% Recovery	89.6	102	100
Relative Percent Difference	0.5	1.5	< 0.1

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

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

  
Chemist

  
Date



H18681 TCL RICE

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[illegible]

† 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  
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: 924908	EXPIRATION DATE: 7-29-2012
FILL DATE: 7-30-09	METER READING ACCURACY: 99.9

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
BD	B-25 EOL	B	25	T 22 S	R 37 E

SAMPLE ID: soil core #1

DEPTH	PID
3'	6.8
6'	3.9
9'	1.8
12'	1.2
15'	1.7

DEPTH	PID
33'	2.1
36'	3.5
39'	3.4
42'	4.2
45'	4.7

DEPTH	PID

DEPTH	PID

DEPTH	PID
18'	2.0
21'	3.2
24'	2.2
27'	2.6
30'	1.2

DEPTH	PID
48'	4.3
51'	6.1
54'	5.0
57'	4.7

DEPTH	PID

DEPTH	PID

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

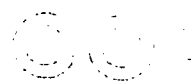
Signature

Date

11-6-09

SITE MAP

N ↑





# ARDINAL LABORATORIES

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: 10/07/09  
Reporting Date: 10/08/09  
Project Owner: NOT GIVEN  
Project Name: B.D. B-15 EOL  
Project Location: B.D. B-15 EOL

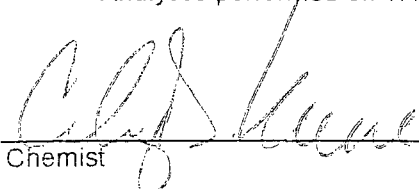
Sampling Date: 10/06/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>9</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	(mg/kg)

ANALYSIS DATE	10/07/09	10/07/09	10/07/09
H18425-1 5PT. COMP. BOTT. @ 14'	<10.0	489	304
H18425-2 4 WALL COMP. @ 10X10	<10.0	373	368
Quality Control	470	502	490
True Value QC	500	500	500
% Recovery	94.0	100	98.0
Relative Percent Difference	9.5	0.6	<0.1

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

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

  
Chemist

  
Date

H18425 TCL RICE

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 analyses. 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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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:

<input type="checkbox"/>	Model: PGM 7300	Serial No: 590-000183	<input type="checkbox"/>	Model: PGM 7600	Serial No: 110-023920
<input type="checkbox"/>	Model: PGM 7300	Serial No: 590-000508	<input checked="" type="checkbox"/>	Model: PGM 7600	Serial No: 110-013744
<input type="checkbox"/>	Model: PGM 7300	Serial No: 590-000504	<input type="checkbox"/>	Model: PGM 7600	Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO:	EXPIRATION DATE: 7-28-10
FILL DATE: 3-9-09	METER READING ACCURACY: 10/PPM

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	B-1350C	B	15	225	37E

SAMPLE ID	PID	SAMPLE ID	PID
12' source	43.7		
14' source	71.8		
5' N of source @ 14'	16.3		
5' south of source @ 14'	48.4		
5' east of source @ 14'	4.4		
5' west of source @ 14'	178		
SPT BTM @ 14'	86		
4 wall @ 10x10	9.0		

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

SIGNATURE:



DATE:

10/6/09

# CHLORIDE CONCENTRATION CURVE

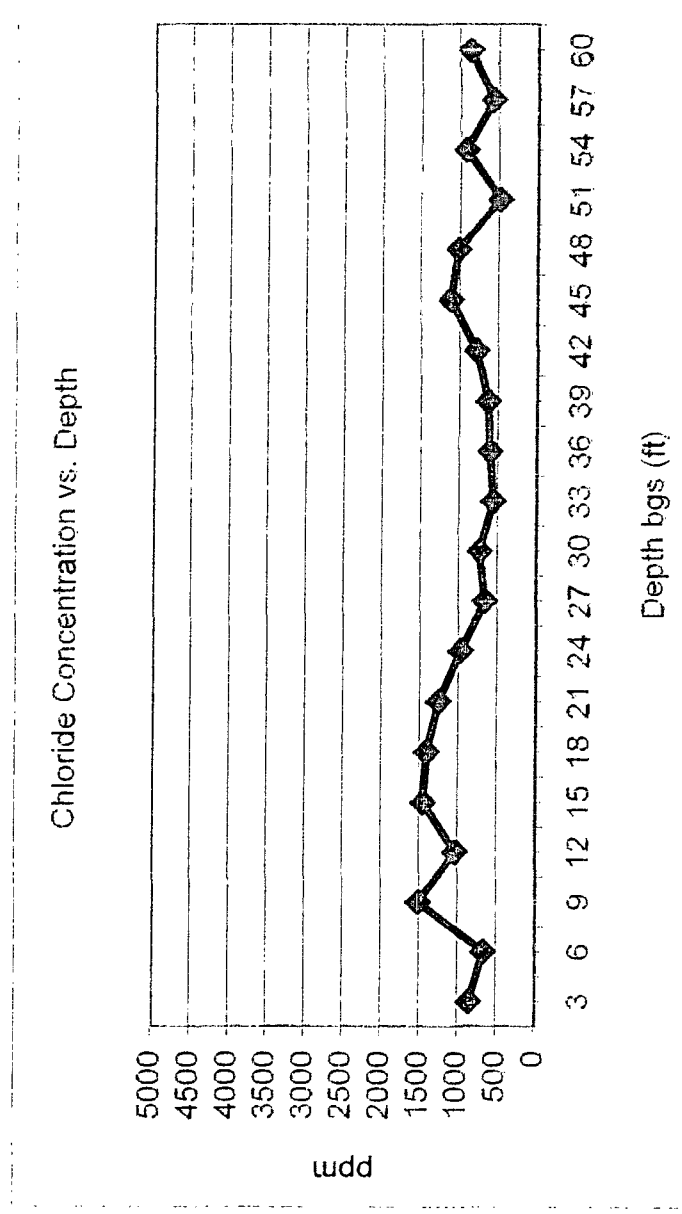
RICE Operating Company

## BD B-15 EOL

Unit 'B', Sec. 15, T22S, R37E

Soil bore samples 9 ft. west of the junction (source)

Depth bgs (ft)	[Cl] ppm
3	849
6	667
9	1518
12	1029
15	1455
18	1406
21	1255
24	970
27	657
30	731
33	552
36	600
39	627
42	780
45	1119
48	1017
51	479
54	926
57	568
60	871



Groundwater = 117 ft.