

1R - 426-251

**REPORTS**

**DATE:**

3-25-10

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BD B-15 EOL  
2009

RECEIVED

APR 13 2009

Environmental Survey  
Oil Conservation Division

1R426-251

**DISCLOSURE**

RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT

RECEIVED

APP - 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., 57ft., 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

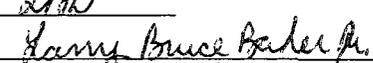
ADDITIONAL EVALUATION IS HIGH PRIORITY

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

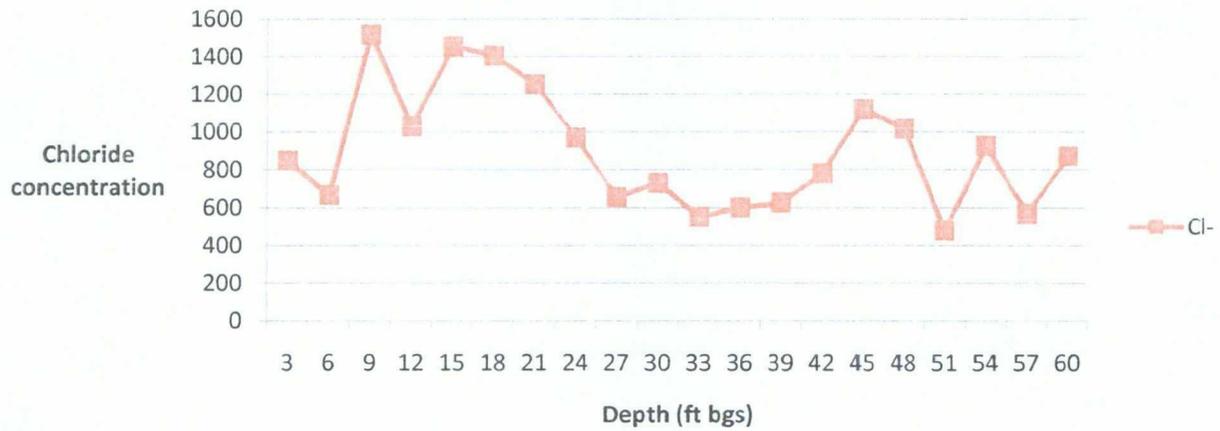
<b>Logger:</b>	Lara Weinheimer	
<b>Driller:</b>	Harrison & Cooper, Inc. Drilling	
<b>Consultant:</b>	N/A - ROC junction box upgrade plan	
<b>Drilling Method:</b>	Air rotary and split spoon	
<b>Start Date:</b>	11/6/2009	
<b>End Date:</b>	11/6/2009	<b>Project Name:</b> BD B-15 EOL
<b>Comments:</b>	Split spoon sampling at 9 ft. All other were from air rotary cuttings. Located 9 ft west of the frmr. jct. box site.	<b>Well ID:</b> SB #1
	Drafted by: Lara Weinheimer TD = 60 ft                      GW = 117 ft	<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		
9	1518	CF-1520 GRO <10.0 DRD <10.0	1.8	VERY FINE TO FINE SAND; SANDSTONE AND CALICHE		
				orangey brown, slightly moist, no odor		
12	1029		1.2			
				12 - 24 ft		
				VERY FINE TO FINE SAND AND CALICHE		
15	1455		1.7	light orangey brown, dry, no odor		
18	1406		2			
21	1255		3.2			
24	970		2.2			



				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			
				57 - 60 ft	
60	871		4.3	CHINLE CLAY	
				red bed	

**Chloride concentration versus depth**





ANALYTICAL RESULTS FOR  
 RICE OPERATING COMPANY  
 ATTN: HACK CONDER  
 122 W. TAYLOR  
 HOBBS, NM 88240  
 FAX TO: (575) 397-1471

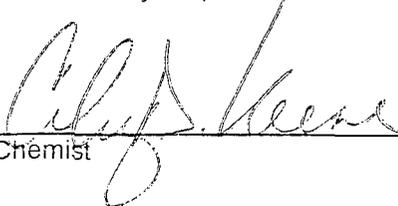
Receiving Date: 11/06/09  
 Reporting Date: 11/11/09  
 Project Owner: NOT GIVEN  
 Project Name: BD B-15 EOL  
 Project Location: BD B-15 EOL

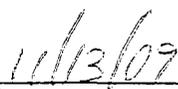
Sampling Date: 11/06/09  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: ML  
 Analyzed By: AB/HM

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

  
 Chemist

  
 Date



H18681 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.



# 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

# CHAIN OF CUSTODY AND ANALYSIS REQUEST

**Company Name:** Rice Operating Company  
**Project Manager:** Hack Conder  
**Address:** 122 West Taylor  
**City:** Hobbs **State:** NM **Zip:** 88240  
**Phone #:** 393-9174 **Fax #:** 397-1471  
**Project #:**  
**Project Name:** 0D 0-15 EOL  
**Project Location:** 0D 0-15 EOL  
**Sampler Name:** Lara Weinheimer

Lab I.D.	Sample I.D.	# CONTAINERS	(G)RAB OR (G)OMP	MATRIX			PRESERV			SAMPLING		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER
H15081-1	SB #1 09'	1	6								11-6-09	10:00
H15081-2	SB #1 05'	1	6								11-6-09	11:16

**Analyses Requested:** Chlorides, BTEX, Texas TPH

**Relinquished By:** L. Weinheimer  
**Received By:** [Signature]  
**Date:** 11-6-09  
**Time:** 4:10

**Delivered By:** (Circle One) Sampler - UPS - Bus - Other:  
**Checked By:** [Signature]

**Remarks:** email results  
 Added April based upon labeling on jar  
 #B1110109

**Phone Result:**  Yes  No  
**Fax Result:**  Yes  No  
**Add'l Phone #:**  
**Add'l Fax #:**

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort shall be limited to the amount paid by the client for the 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 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 affiliates, agents 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.

† 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	T22 S	R 37E

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

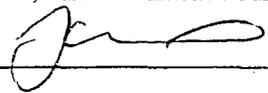
DEPTH	PID
18'	2.0
21'	3.2
24'	2.2
27'	2.6
30'	1.2

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

DEPTH	PID

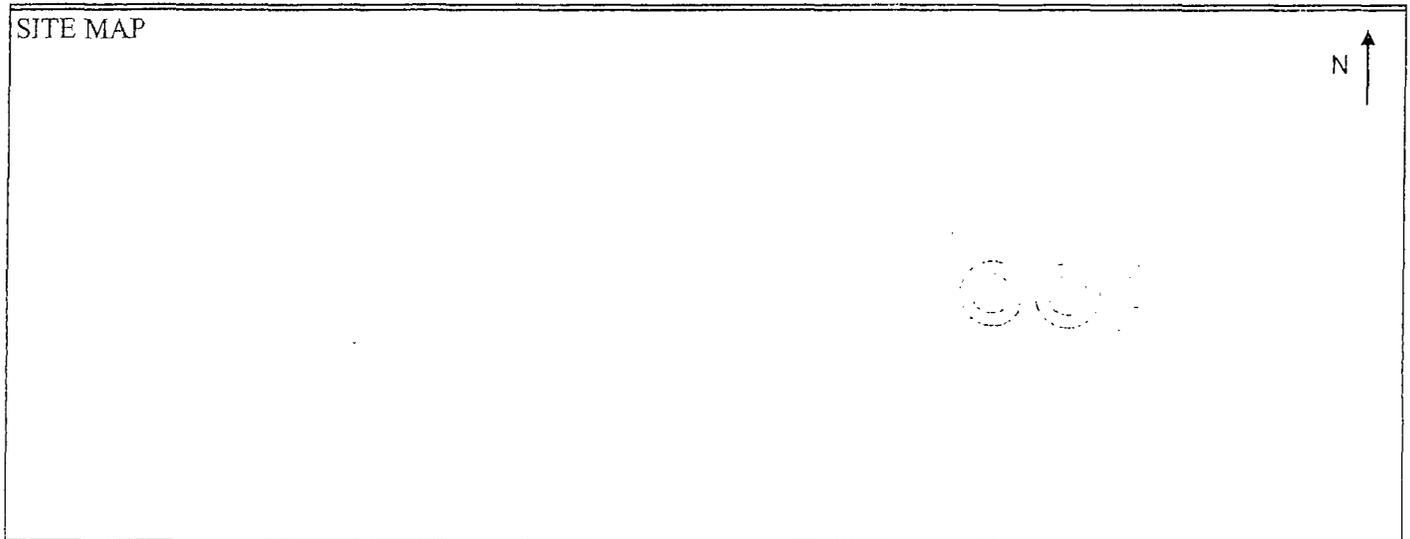
DEPTH	PID

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

Signature 

Date 11-6-09

**SITE MAP**







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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Operating Co</u>		P.O. #:		ANALYSIS REQUEST																	
Project Manager: <u>Bob Taylor</u>		Company:																			
Address: <u>Hobbs</u>		Attn:																			
City: <u>Hobbs</u>		Address:																			
Phone #: <u>505 393 9174</u>		City:																			
State: <u>NM</u>		State:																			
Zip: <u>88240</u>		Phone #:																			
Project #: <u>13-15-201</u>		Fax #:																			
Project Name: <u>BD B-15 201</u>		Project Owner:																			
Project Location: <u>BD B-15 201</u>		Project #:																			
Sampler Name: <u>BD B-15 201</u>		Project #:																			
FOR LAB USE ONLY		PRESERV		SAMPLING		DATE		TIME													
Lab I.D.		ACID/BASE		SLUDGE		OTHER:		OTHER:													
11825-1		ICE/COOL		OIL		OTHER:		OTHER:													
-2		✓		✓		✓		✓													
5th Camp Bell 014		WASTEWATER		SOIL		GROUNDWATER		WASTEWATER													
4th Well Camp Bell 014		✓		✓		✓		✓													
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		ICE/COOL		SLUDGE		OTHER:		OTHER:													
		✓		✓		✓		✓													
		OTHER:		OIL		GROUNDWATER		WASTEWATER													
		✓		✓		✓		✓													
		ACID/BASE		SLUDGE		OTHER:		OTHER:													
		✓		✓		✓		✓													
		OTHER:		OIL		GROUNDWATER		WASTEWATER													
		✓		✓		✓		✓													
		ICE/COOL		SLUDGE		OTHER:		OTHER:													

# 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		
5PTBTM @ 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

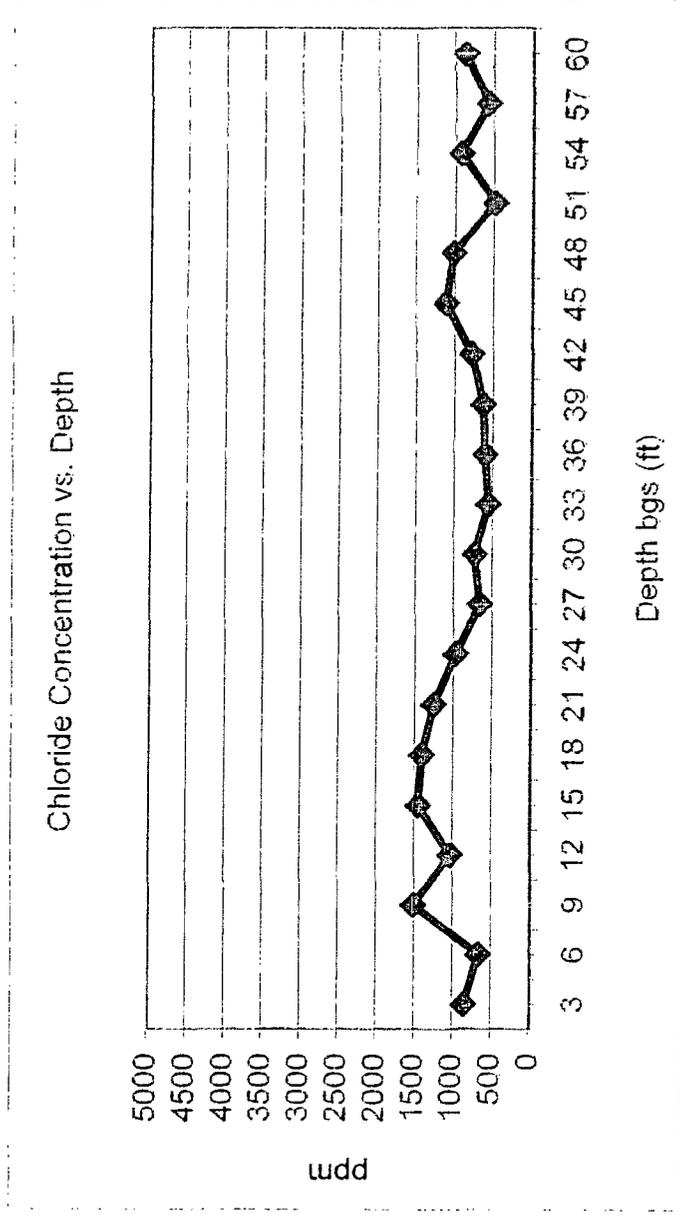
RICE Operating Company

**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.