

1R - 426-314

# REPORTS

DATE:

3-13-13

1R426-314

RECEIVED

APR 2 2013

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

BD C-32 EOL

2012

CLOSURE

# RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2013

# RECEIVED

Mr. Edward Hansen  
New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

APR 2 2013

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

RE: Termination Request  
BD C-32 EOL: UL/C, Sec. 32, T22S, R38E  
RICE Operating Company – Blinebry-Drinkard SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the BD Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

## **Background**

In 2011, ROC initiated work on the former C-32 EOL junction box. The site is located in UL/C, Sec. 32, T22S, R38E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 44 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 20x20x12-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The excavated soil was blended on site and representative composite samples of the excavation bottom, the excavation walls, and the blended backfill were sent to a commercial for analysis of chloride and TPH, resulting in a 4-WALL chloride concentration of 128 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in chloride concentrations of 128 mg/kg, and concentrations of GRO and DRO below detectable limits. The blended backfill resulted in a chloride concentration of 192 mg/kg, and concentrations of GRO and DRO below detectable limits. The excavated soil was returned to the excavation and contoured to the surrounding area. On 2/20/2013, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. The junction box final report, site location map, photo documentation, laboratory analysis, PID screenings, chloride graph and revegetation form are attached.

**Recommendations**

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,  
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a long horizontal flourish extending to the right.

Hack Conder  
Environmental Manager

enclosures

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard (BD)	C-32 EOL	C	32	22S	38E	Lea	4'	5.5'	4'
							Moved 15' East		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER D.K.Boyd Oil and Gas Co. OTHER \_\_\_\_\_

Depth to Groundwater 44 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 10/13/2011 Date Completed 4/5/2012 OCD Witness no

Soil Excavated 178 cubic yards Excavation Length 20 Width 20 Depth 12 feet

Soil Disposed None cubic yards Offsite Facility n/a Location n/a

**FIELD SOURCE RESULTS:** Sample Date 4/5/2012 Sample Depth 12'

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	Chlorides mg/kg
4-WALL COMP.	0.2	<10	<10	128
BOTTOM COMP.	0.0	<10	<10	128
BLENDED BACKFILL	0.8	<10	<10	192

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
4 wall comp.	n/a	146
bottom comp.	12'	141
backfill comp.	n/a	188
background	6"	114
vertical delineation trench at 10' South	2'	142
	4'	147
	6'	150
	8'	149
	10'	147
	12'	146

**General Description of Remedial Action:** This junction and line were removed during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals, creating a 20x20x12 ft. deep excavation. Chloride field tests performed on soil samples yielded slightly elevated concentrations. Organic vapors were measured using a PID which yielded low concentrations. The excavated soil was blended on site and representative composite samples of the excavation bottom, the excavation walls, and the blended backfill were sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of each. The excavation was backfilled with excavated soil to ground surface and contoured to the surrounding area. On 2/20/2013, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. A new water tight junction box was built 15 ft east.

enclosures: site location map, photos, lab results, PID (field) screenings, chloride graph, revegetation form

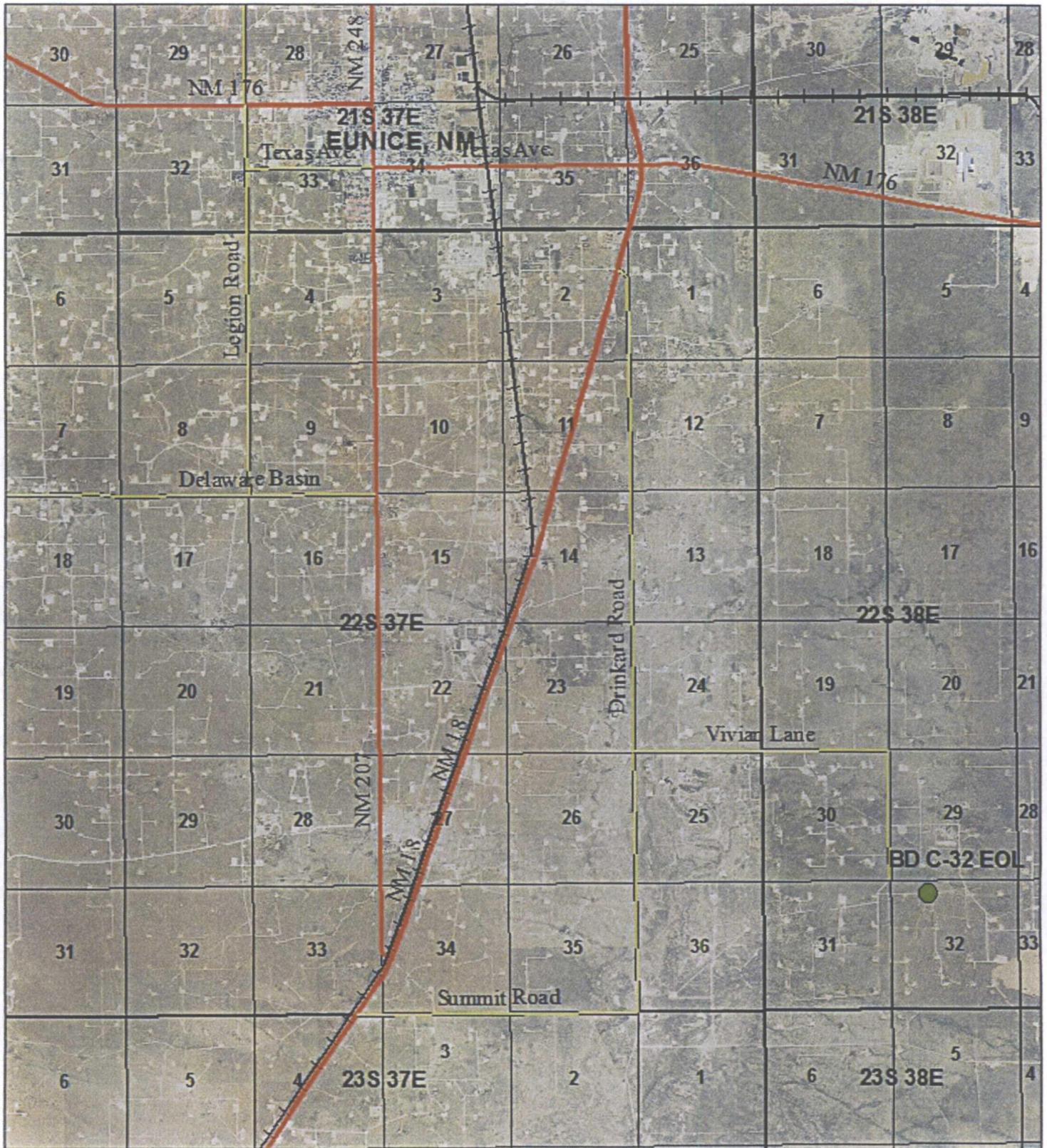
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REPORT

ASSEMBLED BY Laura Peña SIGNATURE *Laura Peña* COMPANY Rice Operating

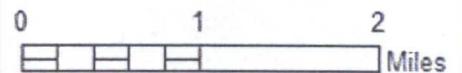
SITE SUPERVISOR Oscar Frayre SIGNATURE Not Available COMPANY Rice Environmental Consulting & Safety

PROJECT LEADER Zach Conder SIGNATURE *Zach Conder* DATE 3-13-13



## BD C-32 EOL

UL/C SECTION 32  
T-22-S R-38-E  
LEA COUNTY, NM



Drawing date: 11/7/12  
Drafted by: Tony Grieco

# BD C-32 EOL

UL/C Sec. 32 (T22S-R38E)



Site prior, facing west

10/13/2011



Excavating site, facing south

4/5/2012



Collecting sample, facing south

4/5/2012



Seeding site

2/20/2013



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 11, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD C-32 EOL (22/38)

Enclosed are the results of analyses for samples received by the laboratory on 04/05/12 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

COPY

**Analytical Results For:**

 Rice Operating Company  
 ZACH CONDER  
 112 W. Taylor  
 Hobbs NM, 88240  
 Fax To: (575) 397-1471

Received:	04/05/2012	Sampling Date:	04/05/2012
Reported:	04/11/2012	Sampling Type:	Soil
Project Name:	BD C-32 EOL (22/38)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5 PT. BOTTOM (H200795-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	04/10/2012	ND	384	96.0	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/05/2012	ND	230	115	200	4.71		
DRO >C10-C28	<10.0	10.0	04/05/2012	ND	235	117	200	4.62		
<i>Surrogate: 1-Chlorooctane</i>	<i>92.4 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>109 %</i>	<i>57.6-158</i>								

**Sample ID: 4 WALL (H200795-02)**

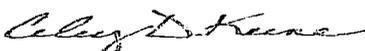
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	04/10/2012	ND	384	96.0	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/05/2012	ND	230	115	200	4.71		
DRO >C10-C28	<10.0	10.0	04/05/2012	ND	235	117	200	4.62		
<i>Surrogate: 1-Chlorooctane</i>	<i>103 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>125 %</i>	<i>57.6-158</i>								

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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Rice Operating Company  
 ZACH CONDER  
 112 W. Taylor  
 Hobbs NM, 88240  
 Fax To: (575) 397-1471

 Received: 04/05/2012  
 Reported: 04/11/2012  
 Project Name: BD C-32 EOL (22/38)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 8 PT BLENDED BACKFILL (H200795-03)**

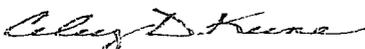
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	04/10/2012	ND	384	96.0	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/05/2012	ND	230	115	200	4.71		
DRO >C10-C28	<10.0	10.0	04/05/2012	ND	235	117	200	4.62		
Surrogate: 1-Chlorooctane	105 %	55.5-154								
Surrogate: 1-Chlorooctadecane	126 %	57.6-158								

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

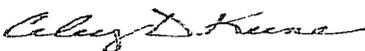
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <i>RICE Operating</i>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <i>Zach Corder</i>		P.O. #:															
Address: <i>1323 W. Taylor</i>		Company:															
City: <i>Hobbs NM</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:															
Phone #: Fax #:		Address:															
Project #: Project Owner:		City:															
Project Name:		State: Zip:															
Project Location: <i>BDC-32 EOL 22-38</i>		Phone #: Fax #:															
Sampler Name: <i>Oscar Prajic</i>																	
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING											
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME											
<i>H200795</i>	<i>1 5pt Bottom</i>	<i>C</i>	<i>1</i>	<i>1</i>	<i>4-5-12</i>	<i>2:30</i>	<i>CL</i> <i>TPT 8015 am</i>										
	<i>2 4 WALL</i>	<i>C</i>	<i>1</i>	<i>1</i>	<i>4-5-12</i>	<i>2:35</i>	<i>J</i> <i>T</i>										
	<i>3 8pt Blended Backfill</i>	<i>C</i>	<i>1</i>	<i>1</i>	<i>4-5-12</i>	<i>2:40</i>	<i>T</i> <i>T</i>										

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 the client for the 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 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.

Relinquished By:	Date: <i>4-5-12</i>	Received By: <i>Jodi Munson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>3:15</i>	Received By: <i>Jodi Munson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>JM</i>	REMARKS: <i>HACH, ZACH, KATIE, LAURA, BRUCE, OSCAR, EMAIL ERICSON PLEASE!</i>	

# RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240  
 PHONE: (505) 393-9174 FAX: (505) 397-1471  
 PID METER CALIBRATION & FIELD REPORT FORM

CK.	<input type="checkbox"/>
MODEL	<input type="checkbox"/>
NO.	<input type="checkbox"/>
	<input type="checkbox"/>
	<input checked="" type="checkbox"/>

MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL: PGM 7300	SERIAL NO: 590-000504
MODEL: PGM 7320	SERIAL NO: 592-903318
MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7300	SERIAL NO: 590-001413

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO :HAL248-100-1	EXPIRATION DATE:7-1-2011
METER READING ACCURACY:100	

ACCURACY : +/- 2%

COMPANY	
RICE OPERATING	

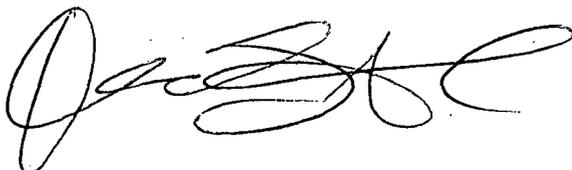
SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	C-32 EOL	C	32	T22S	R38E

SAMPLE ID	PID	SAMPLE ID	PID
10' North @2'	0.4	5pt Bottom Comp	0
@4'	0.7	4 Wall Comp.	0.2
@6'	0.2	3pt Blended Backfill Comp	0.8
@8'	0.5		
@10'	0.5		
@12'	0.4		
10' South @2'	0		
@4'	0.9		
@6'	0.6		
@8'	0.5		
@10'	0.4		
@12'	0.5		

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

SIGNATURE:



DATE: 4-5-12

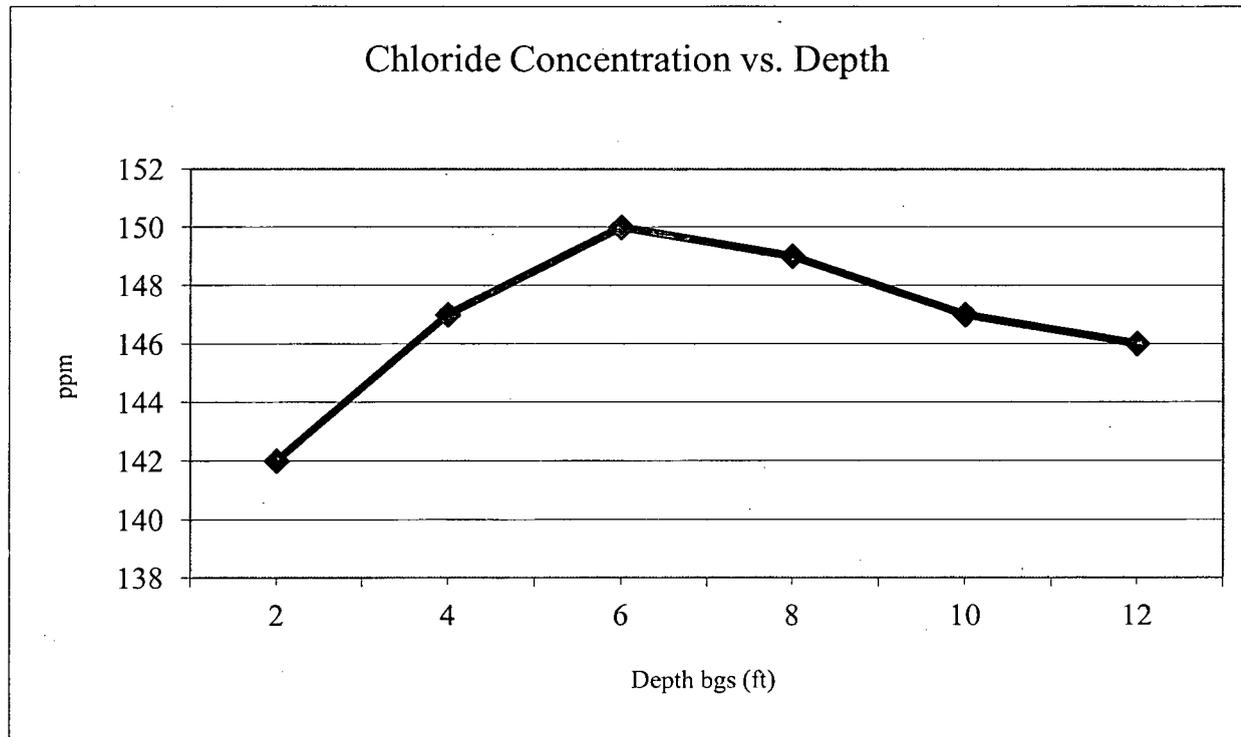
# BD C-32 EOL

Unit 'C', Sec. 32, T22S, R38E

Backhoe samples at 10' South of junction (source)

Depth bgs. (ft)	[Cl] ppm
2	142
4	147
6	150
8	149
10	147
12	146

Groundwater = 44 ft





PO Box 5630  
 Hobbs, NM 88241  
 Phone: (575) 393-4411  
 Fax: (575) 393-0293

## REVEGETATION FORM

### I. General Information

Site name: BD C-32 EOL						
U/L C	Section 32	Township 22S	Range 38E	County Lea	Latitude N 32*21'13.2"	Longitude W103*05'09.0"
Contact Name: Hack Conder						
Email: hconder@riceswd.com						
Site size: 2,025 square feet			Map detail of site attached <input type="checkbox"/>			
Additional information:						

### 2. Soils

*\*Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input type="checkbox"/>	Blended <input checked="" type="checkbox"/>	Depth (in):
Texture: Sandy	Describe soil & subsoil: Sandy soils			
Soil prep methods: Rip <input type="checkbox"/>	Depth(in):	Disc <input checked="" type="checkbox"/>	Depth (in): 3"	Rollerpack <input type="checkbox"/>
Date completed: 8/21/2012				

### 3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input type="checkbox"/>
Type:	Describe:	
Lbs/acre:		

### 4. Seeding

*\*Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input checked="" type="checkbox"/>	Prescribed mix <input type="checkbox"/>	Seed mix name: 2.5 lbs. Boyd Johnson Mix	Seeding date: 2/20/2013
Broadcast <input checked="" type="checkbox"/>			
Method: Mechanical Seeder			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations:		
Number of photos:			

### 5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: Kyle Norman	Title: Environmental Tech	Date: 2/20/2013
Signature:		

COPY