

1R - 426-239

REPORTS

DATE:

3-8-10

**BD Jct I-2
2009**

RECEIVED

APR - 6 2010

Environmental Bureau
Oil Conservation Division

1R426-239

CLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

RECEIVED
APR - 6 2010
Environmental Bureau
Oil Conservation Division

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
Blinbry-Drinkard (BD)	Jct. I-2	I	2	22S	36E	Lea	moved 30' south		

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 130 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20*

Date Started 7/16/2009 Date Completed 9/22/2009 OCD Witness no

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 7/16/2009, 9/22/2009 Sample Depth 12 ft, 18 ft, 21 ft, 36 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.	15.0	<10.0	173	416
BOTTOM COMP.	6.3	<10.0	310	512
BACKFILL COMP.	1.6	<10.0	14.3	480
SB # 1 @ 18'	0.3	<10.0	12.6	512
SB #1 @ 21'	6.0	<10.0	13.1	1,280
SB # 1 @ 36'	0.0	<10.0	12.5	192

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	297
bottom comp.	12'	444
backfill comp.	n/a	300
background	6"	206
SOIL BORING at 7 ft northeast of the junction (9/22/2009)	15'	297
	18'	683
	21'	638
	24'	520
	27'	448
	30'	371
	33'	362
	36'	349

General Description of Remedial Action:

This junction was addressed during the pipeline replacement/upgrade program. A new, watertight junction box was built 30 ft south of the former. After the former box was removed, an investigation was conducted using a trackhoe to collect soil samples at regular intervals producing a 10x10x12-ft deep excavation. Chloride field tests performed on each sample yielded slightly elevated concentrations. Organic vapors were measured using a PID which yielded low

concentrations. Laboratory analysis of representative composite samples confirmed low concentrations of TPH and slightly elevated

concentrations of chloride. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area.

On 8/13/2009, the site was seeded with a native blend of vegetation and is expected to return to a productive capacity at a normal rate. To

further investigate depth of chloride presence, a soil boring was initiated 9/22/2009 at 7 ft northeast of the former junction box. The boring

was advanced to 36 ft below ground surface (BGS) while soil samples were collected every 3 ft. Chloride field tests yielded low

concentrations. The 18 ft, 21 ft, and 36 ft samples were analyzed by a commercial laboratory for chloride and TPH which confirmed low

concentrations of each. The entire bore hole was plugged with bentonite to the ground surface.

* Windmill is located 912 ft southeast of the site.

enclosures: photos, boring log, lab results, PID (field) screenings, chloride curve

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

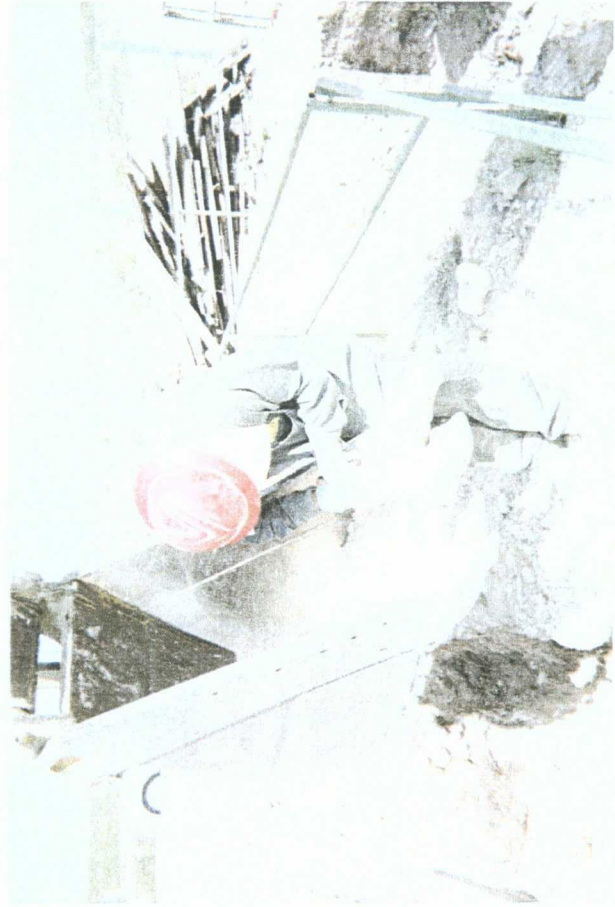
SITE SUPERVISOR Eric Garrison SIGNATURE not available COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-8-10

BD Jct. I-2

Unit I, Section 2, T22S, R36E



collecting a sample from the source, facing south

7/16/2009



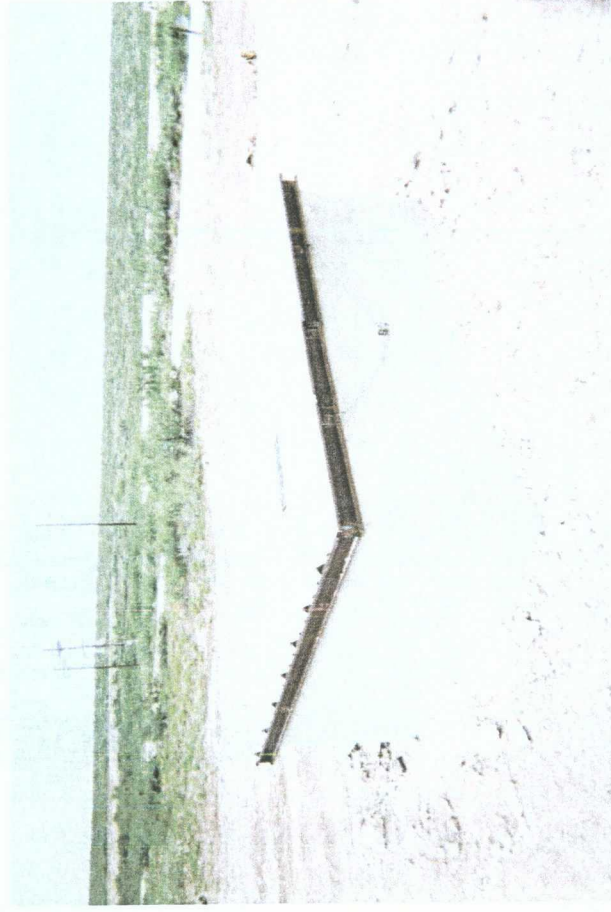
final 10x10x12-ft excavation, facing east

7/17/2009



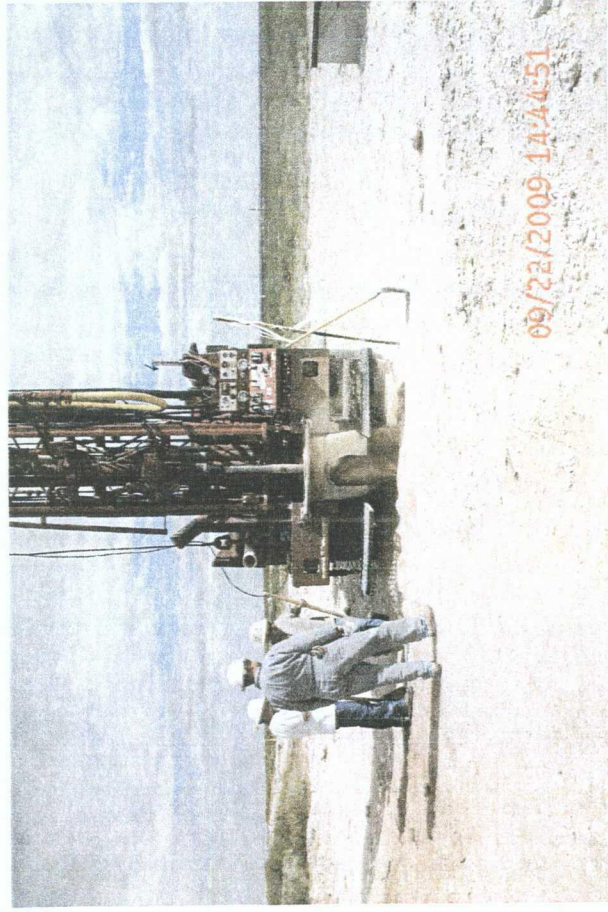
seeding the backfilled site, facing east

8/13/2009



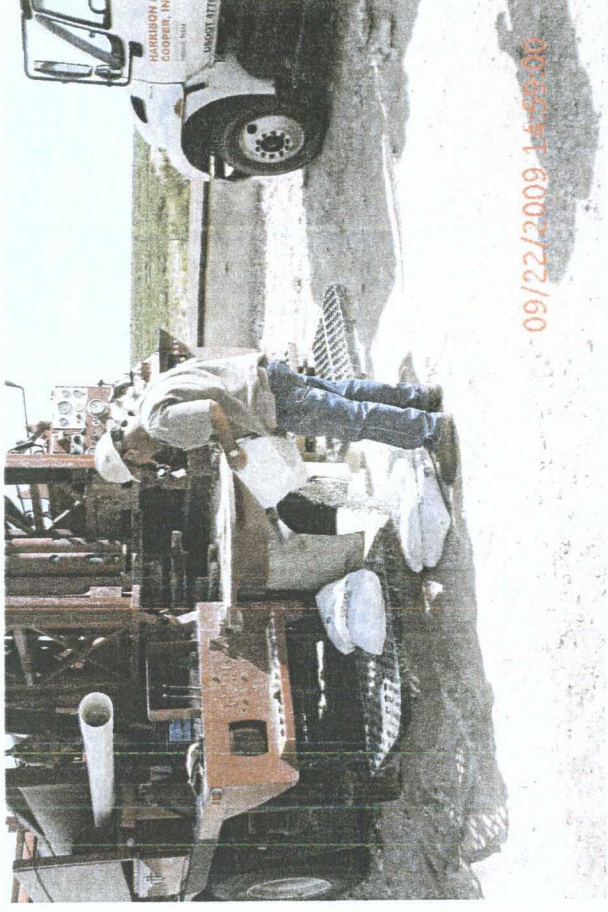
new, watertight junction box 30 ft south

8/14/2009




drilling SB #1

9/22/2009



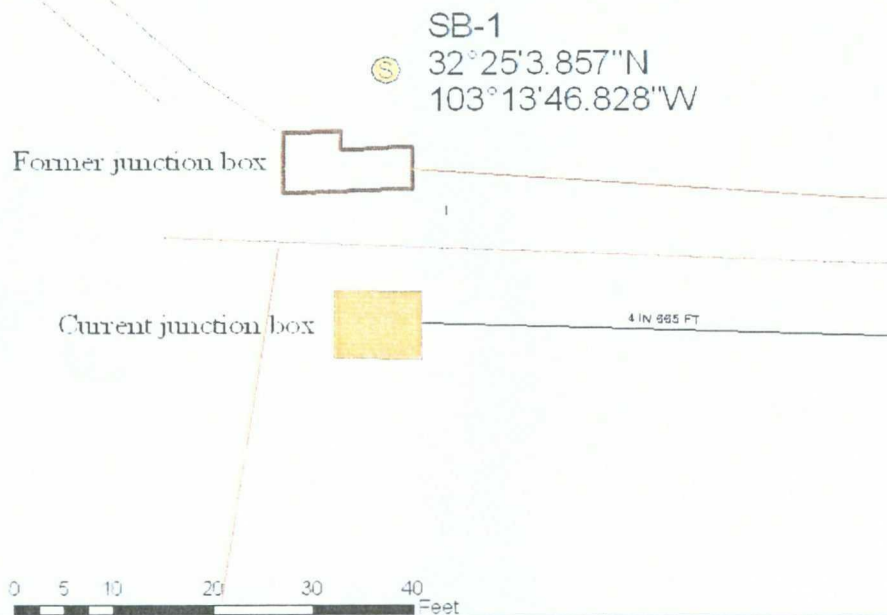
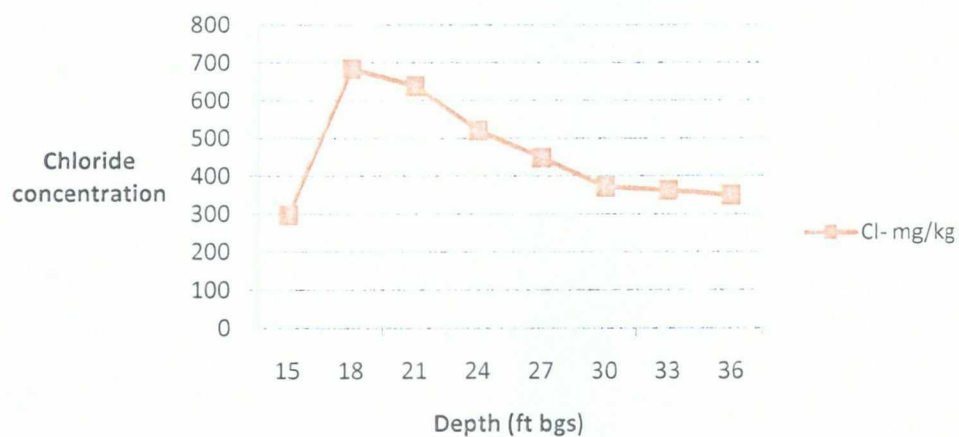
plugging SB #1 with bentonite

9/22/2009

Logger:	Tony Grieco	
Driller:	Harrison & Cooper, Inc. Drilling	
Consultant:	None - junction box upgrade plan	
Drilling Method:	Air rotary	
Start Date:	9/22/2009	
End Date:	9/22/2009	
Comments: All samples from cuttings. Located 7 ft NE of the former junction box site. Drafted by: Lara Weinheimer TD = 36 ft Estimated Depth to GW = 130 ft		Project Name: BD jct. I-2 Well ID: SB #1 Location: UL/I sec. 2 T22S R36E Lat: N32°25'3.857" County: Lea Long: W103°13'46.828" State: NM

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
15	297		0.8	<div>15 - 36 ft</div> <div>VERY FINE TO FINE SAND</div> <div>brownish-orange, dry</div>		<div>bentonite seal</div>
18	683	CI- 512	0.3			
		GRO <10.0				
		DRO 12.6				
21	638	CI- 1280	6			
		GRO <10.0				
		DRO 13.1				
24	520		0.2			
27	448		0.2			
30	371		0			
33	362		0			
36	349	CI- 182	0			
		GRO <10.0				
		DRO 12.5				

Chloride concentration versus depth





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: 09/23/09
Reporting Date: 09/25/09
Project Owner: NOT GIVEN
Project Name: BD I-2
Project Location: NOT GIVEN

Sampling Date: 09/22/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER SAMPLE ID

COPY

GRO
(C₆-C₁₀)
(mg/kg)

DRO
(>C₁₀-C₂₈)
(mg/kg)

CI*
(mg/kg)

ANALYSIS DATE	09/24/09	09/24/09	09/24/09
H18301-1 SB 1 18'	<10.0	12.6	512
H18301-2 SB 1 21'	<10.0	13.1	1,280
H18301-3 SB 1 36'	<10.0	12.5	192
Quality Control	473	507	500
True Value QC	500	500	500
% Recovery	94.6	101	100
Relative Percent Difference	2.4	1.2	<0.1

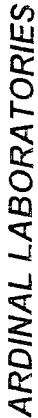
METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI-B

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

Chemist

Date

H18301 TCL RICE



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO		ANALYSIS REQUEST	
Company Name: RICE OPERATING Project Manager: HACK CONDER Address: 122 W. TAYLOR City: HOBBS State: NM Zip: 88340 Phone #: 575-393-9175 Fax #: Project #: Project Owner: Project Name: BDI-2 Project Location: Sampler Name: TONY GRIECO		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: PRESERV: <input type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER: ACID/BASE: <input type="checkbox"/> OTHER: MATRIX: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: # CONTAINERS: (G)RAB OR (C)OMP:	
Lab I.D. H18301-1 -2 -3	Sample I.D. SB-1 18' SB-1 21' SB-1 36'	DATE 9/22/09 1:57 9/22/09 2:00 9/22/09 2:24	TIME 1:57 2:00 2:24
Relinquished By: <i>[Signature]</i> Date: 9/23/09 Time: 4:00		Received By: <i>[Signature]</i> Date: 9/23/09 Time: 4:00	
Relinquished By: <i>[Signature]</i> Date: Time:		Received By: <i>[Signature]</i> Date: Time:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Checked By: <i>[Signature]</i> (Initials)	

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 time, 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: *[Signature]*

Date:
 Time:

Received By: *[Signature]*

Date: 9/23/09
 Time: 4:00

Relinquished By: *[Signature]*

Date:
 Time:

Received By: *[Signature]*

Date:
 Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Checked By: *[Signature]*

(Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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.

X

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: 07-29-12
FILL DATE: 07-30-09	METER READING ACCURACY: 100

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
RD	T-2	I	2	223	36E

SAMPLE ID: Soil Puff 1

DEPTH	PID
15'	0.8
18'	0.3
21'	60
24'	0.2
27'	0.2

DEPTH	PID

DEPTH	PID

DEPTH	PID

DEPTH	PID
30'	0.0
35'	0.0
36'	0.0

DEPTH	PID

DEPTH	PID

DEPTH	PID

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

Signature

[Signature]

Date

8/22/09

SITE MAP





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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 07/17/09
Reporting Date: 07/20/09
Project Number: NOT GIVEN
Project Name: BD JCT I-2
Project Location: BD JCT I-2

Sampling Date: 07/16/09
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: CK
Analyzed By: AB

COPY

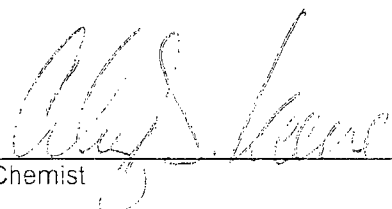
LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
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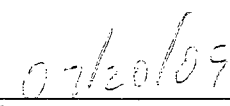
ANALYSIS DATE	07/18/09	07/18/09	07/17/09
H17832-1 BACKFILL	<10.0	14.3	480
H17832-2 5PT BTM @ 12'	<10.0	310	512
H17832-3 4 WALL COMP @ 10X10	<10.0	173	416
Quality Control	503	582	490
True Value QC	500	500	500
% Recovery	101	116	98.0
Relative Percent Difference	17.7	8.4	<0.1

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

H17832 TCL RICE

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

[illegible]

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Relinquished By: <u>[Signature]</u> Date: <u>11/10/01</u>		Received By: <u>[Signature]</u> Date: <u>11/10/01</u>		Checked By: <u>[Signature]</u> (Initials)	
Relinquished By: <u>[Signature]</u> Date: <u>11/10/01</u>		Received By: <u>[Signature]</u> Date: <u>11/10/01</u>		Checked By: <u>[Signature]</u> (Initials)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <u> </u> Add'l Fax #: <u> </u>	
REMARKS: <u>RESUBS</u> <u>ABBAVER @ Rice seed.com</u> <u>5 ABBAVER @ Rice seed.com</u> <u>Garbison @ Rice seed.com</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <u> </u> Add'l Fax #: <u> </u>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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:

Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-2425	EXPIRATION DATE: 08-25-09
FILL DATE: 02-29-08	METER READING ACCURACY: 10% F.S.

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	I-2	I	2	22E	36E

[illegible]

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

SIGNATURE:

DATE:

CHLORIDE CONCENTRATION CURVE

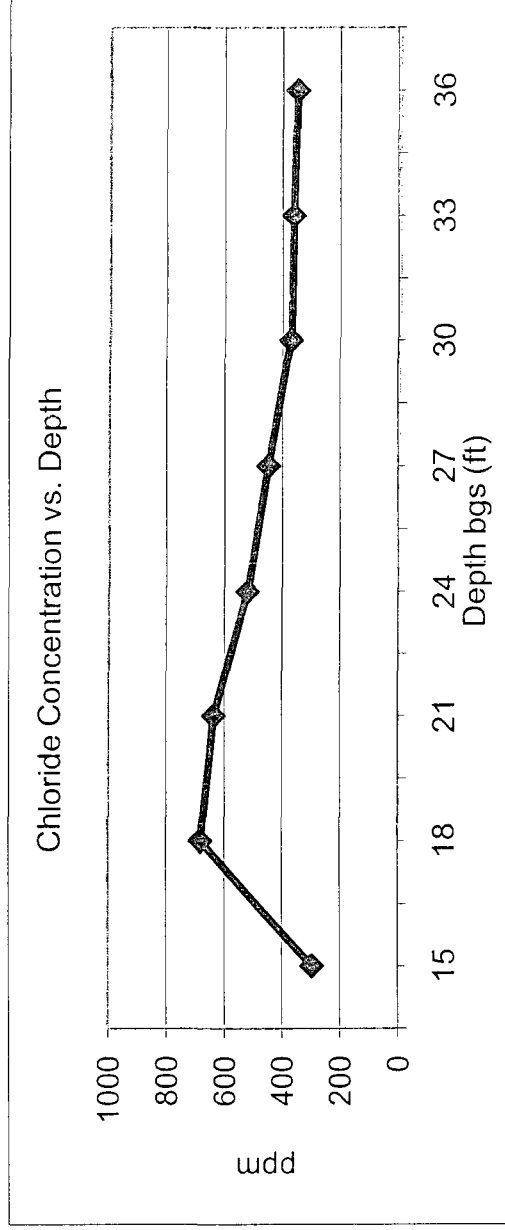
RICE Operating Company

BD Jct. I-2

Unit 'I', Sec. 2, T22S, R36E

Soil Bore samples at 7 ft northeast of the junction (source)

Depth bgs (ft)	Cl ⁻ ppm
15	297
18	683
21	638
24	520
27	448
30	371
33	362
36	349



Groundwater = 130 ft