

1R - 426-130

REPORTS

DATE:

2-7-07

BD Jct G-26-2

1 R-426-130

RECEIVED

APR - 3 2007

Environmental Bureau
Oil Conservation Division

Closure

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	jct. G-26-2	G	26	21S	37E	Lea	Length	Width	Depth
							moved 30 ft south		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Delrose Scott OTHER _____

Depth to Groundwater 53 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 5/22/2006 Date Completed 10/18/2006 NMOCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 5/30/2006, 10/18/2006 Sample Depth 12, 45 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID ppm	Total Hydrocarbon (C6-C35) mg/kg	Chloride mg/kg
4-WALL COMP.	1.0	<10.0	357
BOTTOM COMP.	2.7	<10.0	837
BACKFILL	1.4	<10.0	682
SOIL BORING	XXX	XXX	64

LOCATION	DEPTH (ft)	ppm
30 x 30 x 12 excavation		
4-wall comp.	n/a	478
bottom comp.	12	729
backfill	n/a	697

General Description of Remedial Action: This junction box site was addressed as part of the pipeline replacement/upgrade program and a new, replacement box was built 30 ft south.

At the former box site, a backhoe was used to collect soil samples at regular intervals creating a 30 x 30 x 12-ft-deep hole. Chloride field tests and PID readings were conducted on each sample.

PID headspace readings were very low but further chloride investigation was warranted to confirm a trend of decline. The excavated soil was blended on site and then returned to the hole and

contoured to the surrounding terrain. On 10/18/2006, a soil bore was initiated at the former junction site and advanced to 45 ft BGS where chloride concentrations dissipated. The bore hole was plugged with bentonite clay. On 9/1/2006, the disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

Soil Bore	20	815
	25	423
	30	302
	35	148
	40	169
	45	211

enclosures: photos, lab results, chloride graph, soil boring log & diagram, PID field readings

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

SITE SUPERVISOR Darnell Mitchell SIGNATURE Darnell Mitchell COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 2/7/2007 TITLE Project Scientist

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

Phone: (505) 393-9174 Fax: (505) 397-1471

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: 05-2895

FILL DATE: 7-19-06

ACCURACY: +/- 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

EXP. DATE: 1-19-06

METER READING ACCURACY: 100.3

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
BD	G-26-2	G	26	21S	37E

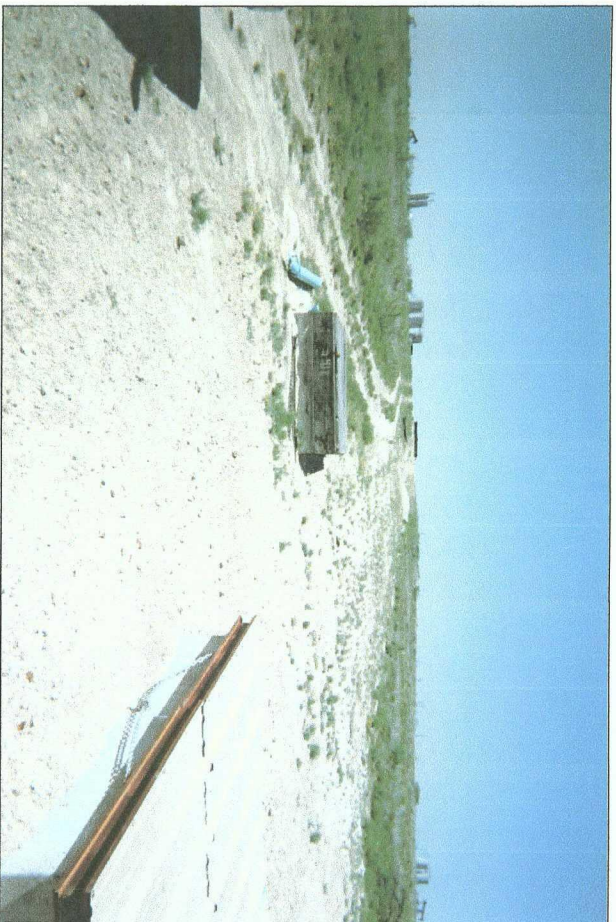
30' X 30' X 12'
PREPARED 15' X 15' X 12' FINAL SAMPLES

SAMPLE	PID Results	Sample	PID Results
E. wall	1.01		
S. wall	1.7		
W. wall	2.0		
N. wall	0.6		
Bottom Comp.	2.7		
4 wall Comp.	1.0		
Blended Backfill	1.4		

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

SIGNATURE: Danell Mitchell

DATE: 5-30-06



former jct. box site in background; new box in foreground 5/11/2005

BD jct. G-26-2

Unit 'G', Sec. 26, T21S, R37E



delineation & excavation

May 2006



delineation & excavation

May 2006



delineation & excavation

May 2006



backfilling and compacting soil

8/1/2006



seeding disturbed surface after backfill

8/31/2006



identification plate at former jct. location to mark soil bore site



BD G-26-2 SB # 1



BD G-26-2 SB @ Source

Soil Bore

System: BD	Location: Jct. G-26-2	Landowner: DelRose Scott
------------	-----------------------	--------------------------

System: BD	Location: Jct. G-26-2	Landowner: DelRose Scott
------------	-----------------------	--------------------------

System: BD	Location: Jct. G-26-2	Landowner: DelRose Scott
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GW: 53' GPS Coord. Lat: 32°27.158N Long. 103°07.781W Soil Bore/Monitor Well ID: SB # 1

GW: 53' GPS Coord. Lat: 32°27.158N Long. 103°07.781W Soil Bore/Monitor Well ID: SB # 1

UL/ G	Sec. 26	Township: 21S	Range: 37E
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UL/ G	Sec. 26	Township: 21S	Range: 37E
-------	---------	---------------	------------

UL/ G	Sec. 26	Township: 21S	Range: 37E
-------	---------	---------------	------------

UL/ G	Sec. 26	Township: 21S	Range: 37E
-------	---------	---------------	------------

Bore @ Source

[illegible]

Notes: Clay layer @ 41' still in clay @ 45' bgs plugged hole with bentonite.

Signature: Milanie Franks Date: 10/18/06

Signature: Milanie Franks Date: 10/18/06

HARRISON & COOPER, INC.

Drilling & Pump Professionals

7414 85th Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Ph: (806) 866-4026

Fax: (806) 866-4044

Email: harrisoncooperinc@msn.com

Client RICE

Well No. SB

Site ICT G-26-2 BD

Project No. _____

Date Installed 10/18/06

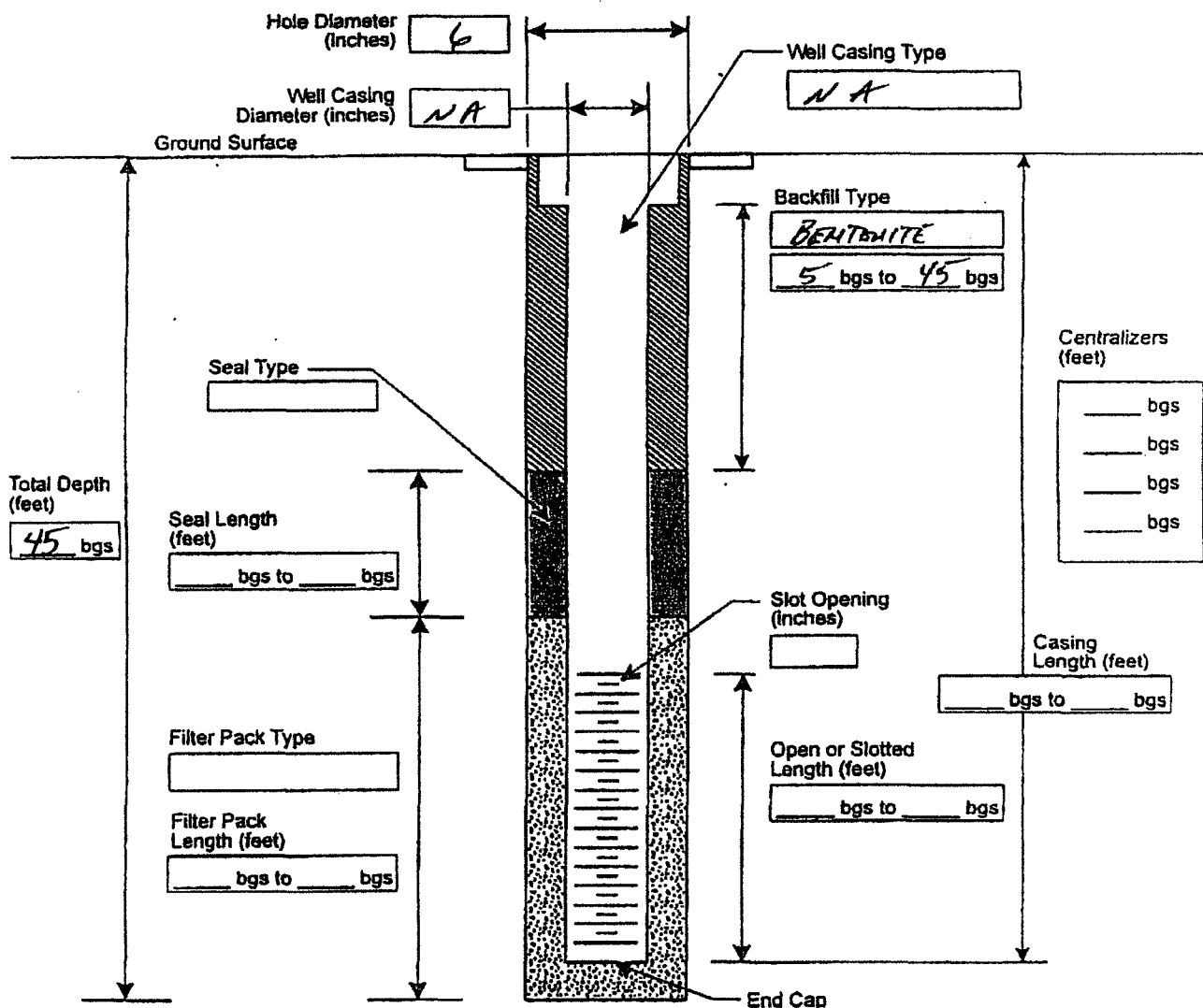
Formation of Completion _____

Personnel

G. BARNETT

Driller

C. HARRISON



Comments

45' SOLID BORING P&A w/ BENTONITE



BD G-26-2 SB # 1



BD G-26-2 SB @ Source

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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

* Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

BD jct. G-26-2

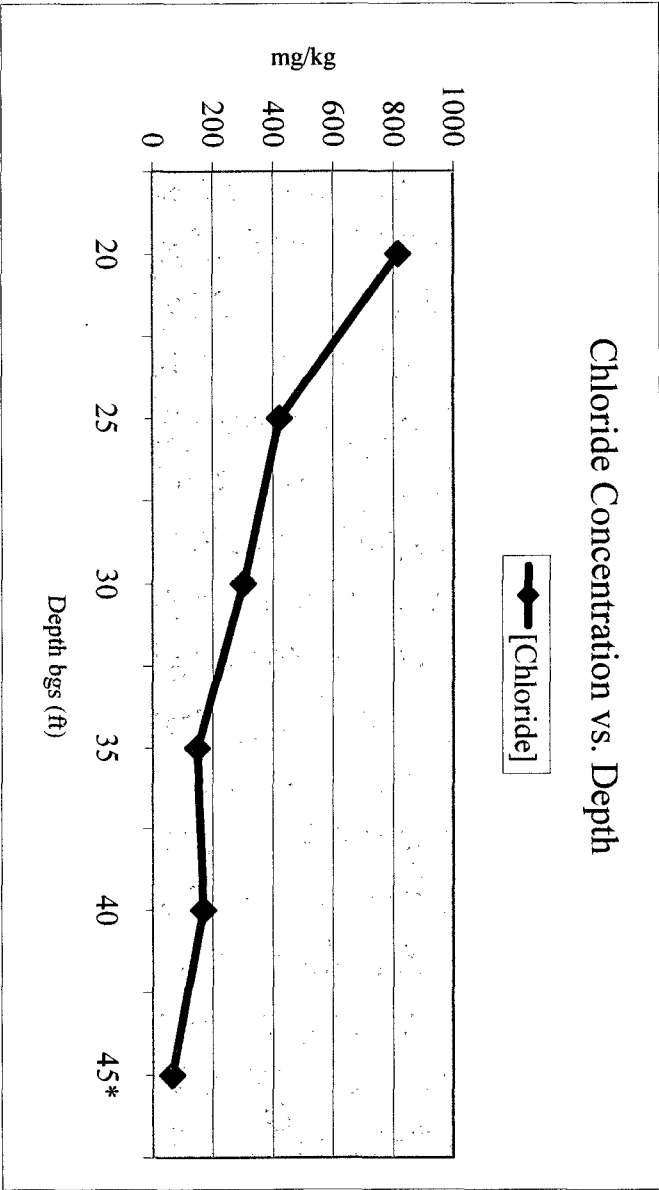
unit 'G', Sec. 26, T21S, R37E

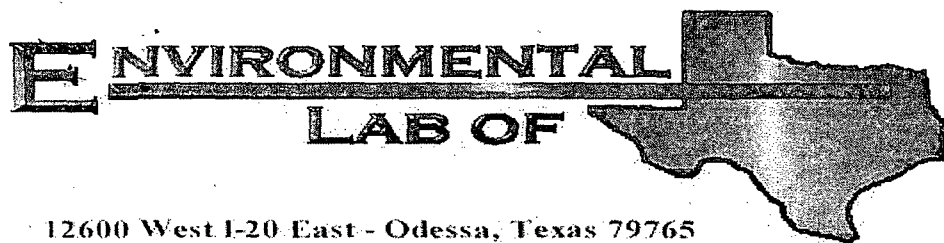
SOIL BORING 10/18/2006

Depth bgs (ft)	[Cl ⁻] mg/kg
20	815
25	423
30	302
35	148
40	169
45*	64

Groundwater = 53 ft

* Laboratory analysis





12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

Roy Rascon
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: BD Jct. G-26-2
Project Number: None Given
Location: None Given

Lab Order Number: 6F01002

Report Date: 06/06/06

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
@12' Bottom Comp.	6F01002-01	Soil	05/30/06 14:20	06/01/06 08:00
Backfill	6F01002-02	Soil	05/30/06 14:45	06/01/06 08:00
30'X30' 4 Wall Comp.	6F01002-03	Soil	05/30/06 14:55	06/01/06 08:00

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
@12' Bottom Comp. (6F01002-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF60223	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.0 %	70-130		"	"	"	"	
Backfill (6F01002-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF60223	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.1 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.5 %	70-130		"	"	"	"	
30'X30' 4 Wall Comp. (6F01002-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF60223	06/02/06	06/03/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.7 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.3 %	70-130		"	"	"	"	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
@12' Bottom Comp. (6F01002-01) Soil									
Chloride	837	10.0	mg/kg	20	EF60305	06/01/06	06/01/06	EPA 300.0	
% Moisture	7.6	0.1	%	1	EF60213	06/02/06	06/02/06	% calculation	
Backfill (6F01002-02) Soil									
Chloride	682	10.0	mg/kg	20	EF60305	06/01/06	06/01/06	EPA 300.0	
% Moisture	3.1	0.1	%	1	EF60213	06/02/06	06/02/06	% calculation	
30'X30' 4 Wall Comp. (6F01002-03) Soil									
Chloride	357	10.0	mg/kg	20	EF60102	06/01/06	06/03/06	EPA 300.0	
% Moisture	6.1	0.1	%	1	EF60213	06/02/06	06/02/06	% calculation	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF60223 - Solvent Extraction (GC)

Blank (EF60223-BLK1)

Prepared: 06/02/06 Analyzed: 06/03/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	57.4		"	50.0		115	70-130			

LCS (EF60223-BS1)

Prepared: 06/02/06 Analyzed: 06/03/06

Carbon Ranges C6-C12	580	10.0	mg/kg wet	500		116	75-125			
Carbon Ranges C12-C28	593	10.0	"	500		119	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1170	10.0	"	1000		117	75-125			
Surrogate: 1-Chlorooctane	61.9		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	63.9		"	50.0		128	70-130			

Calibration Check (EF60223-CCV1)

Prepared: 06/02/06 Analyzed: 06/03/06

Carbon Ranges C6-C12	286		mg/kg	250		114	80-120			
Carbon Ranges C12-C28	286		"	250		114	80-120			
Total Hydrocarbon nC6-nC35	572		"	500		114	80-120			
Surrogate: 1-Chlorooctane	54.5		"	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	64.0		"	50.0		128	70-130			

Matrix Spike (EF60223-MS1)

Source: 6F01008-01

Prepared: 06/02/06 Analyzed: 06/03/06

Carbon Ranges C6-C12	585	10.0	mg/kg dry	568	ND	103	75-125			
Carbon Ranges C12-C28	600	10.0	"	568	ND	106	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1190	10.0	"	1140	ND	104	75-125			
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	49.4		"	50.0		98.8	70-130			

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF60223 - Solvent Extraction (GC)

Matrix Spike Dup (EF60223-MSD1)

Source: 6F01008-01

Prepared: 06/02/06

Analyzed: 06/03/06

Carbon Ranges C6-C12	579	10.0	mg/kg dry	568	ND	102	75-125	1.03	20	
Carbon Ranges C12-C28	596	10.0	"	568	ND	105	75-125	0.669	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1180	10.0	"	1140	ND	104	75-125	0.844	20	
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	49.0		"	50.0		98.0	70-130			

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60102 - Water Extraction										
Blank (EF60102-BLK1)				Prepared & Analyzed: 06/01/06						
Chloride	ND	0.500	mg/kg							
LCS (EF60102-BS1)				Prepared & Analyzed: 06/01/06						
Chloride	9.93	0.500	mg/kg	10.0		99.3	80-120			
Calibration Check (EF60102-CCV1)				Prepared & Analyzed: 06/01/06						
Chloride	10.2		mg/L	10.0		102	80-120			
Duplicate (EF60102-DUP1)				Source: 6E31001-12		Prepared & Analyzed: 06/01/06				
Chloride	709	10.0	mg/kg		692			2.43	20	
Matrix Spike (EF60102-MS1)				Source: 6E31001-12		Prepared & Analyzed: 06/01/06				
Chloride	935	10.0	mg/kg	200	692	122	80-120			S-07
Matrix Spike Dup (EF60102-MSD1)				Prepared: 06/01/06 Analyzed: 06/03/06						
Chloride	ND	0.500	mg/kg				80-120		20	
Batch EF60213 - General Preparation (Prep)										
Blank (EF60213-BLK1)				Prepared & Analyzed: 06/02/06						
% Solids	100		%							
Duplicate (EF60213-DUP1)				Source: 6F01001-01		Prepared & Analyzed: 06/02/06				
% Solids	89.7		%		90.1			0.445	20	
Duplicate (EF60213-DUP2)				Source: 6F01006-02		Prepared & Analyzed: 06/02/06				
% Solids	93.9		%		94.4			0.531	20	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF60213 - General Preparation (Prep)

Duplicate (EF60213-DUP3) Source: 6F01009-10 Prepared & Analyzed: 06/02/06

% Solids	95.3		%		95.4			0.105	20	
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Batch EF60305 - Water Extraction

Blank (EF60305-BLK1) Prepared & Analyzed: 06/01/06

Chloride	ND	0.500	mg/kg							
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LCS (EF60305-BS1) Prepared & Analyzed: 06/01/06

Chloride	10.2		mg/L	10.0		102	80-120			
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Calibration Check (EF60305-CCV1) Prepared & Analyzed: 06/01/06

Chloride	10.9		mg/L	10.0		109	80-120			
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Duplicate (EF60305-DUP1) Source: 6F01002-01 Prepared & Analyzed: 06/01/06

Chloride	829	10.0	mg/kg		837			0.960	20	
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Duplicate (EF60305-DUP2) Source: 6F01009-01 Prepared & Analyzed: 06/01/06

Chloride	1090	25.0	mg/kg		1010			7.62	20	
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Matrix Spike (EF60305-MS1) Source: 6F01002-01 Prepared & Analyzed: 06/01/06

Chloride	1130	10.0	mg/kg	200	837	146	80-120			S-07
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Matrix Spike (EF60305-MS2) Source: 6F01009-01 Prepared & Analyzed: 06/01/06

Chloride	1860	25.0	mg/kg	500	1010	170	80-120			S-07
----------	------	------	-------	-----	------	-----	--------	--	--	------

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. G-26-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
06/06/06 16:30

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 6-07-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon

Company Name Rice: Operating Company

Company Address: 122 W Taylor

City/State/Zip: Hobbs, NM 88240

Telephone No: 505-393-9174

Fax No: 505-397-1471

Sampler Signature:

Daniel Mitchell

[illegible]

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Rice Op.
 Date/Time: 6/1/04 8:00
 Order #: WFO1002
 Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Reservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
GC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 regarding: _____

Corrective Action Taken:

