

1R - 426-289

REPORTS

DATE:

3-3-11

1R426-289

BD Jct. G-12

2010

RECEIVED
MAR - 1 2011
So Conservation Division
220 S. St. Francis Drive
San Francisco, CA 94103

DISCLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX Disclosure* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length 5 ft	Width 5 ft	Depth 3 ft
Blineby-Drinkard (BD)	Jct. G-12	G	12	22S	37E	Lea	New water tight box built 196 ft. west		

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Walco Ranch, LLC OTHER _____

Depth to Groundwater 55 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 8/9/2010 Date Completed 9/16/2010 OCD Witness no

Soil Excavated 222.2 cubic yards Excavation Length 25 Width 20 Depth 12 feet

Soil Disposed 144 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 9/2/2010 Sample Depth 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
4-WALL COMP.	13.2	<10.0	<10.0	528
BOTTOM COMP.	20.3	<10.0	122	2,080
BACKFILL COMP.	13.1	<10.0	44.4	544

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	456
bottom comp.	12'	1,168
backfill comp.	n/a	504
background	6"	151
vertical delineation at 5 ft. south of junction (source)	2'	297
	4'	1,476
	6'	1,934
	8'	2,367
	10'	3,972
	12'	5,414

General Description of Remedial Action: This junction was addressed 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 25X20X12-ft. deep excavation. Chloride field test performed on
each sample yielded concentrations that did not relent with depth. Organic vapors
were measured using a PID, which yielded some elevated concentrations. The

excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation,
and excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH. The
excavation was backfilled to 5 ft. below ground surface (BGS) with the blended backfill. At 5 ft. BGS, a 1-ft. thick clay barrier was
installed with compaction test performed on 9/16/2010. The remaining blended backfill was hauled to a NMOCD approved facility. The
remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. An identification
marker was placed at the site of the former junction box to mark the presence of clay below. On 9/30/2010, the site was seeded with
a blend of native vegetation and is expected to return to productive capacity at a normal rate. A new water tight junction box was built
296 ft. west. NMOCD was notified of potential groundwater impact on 3/02/2011.

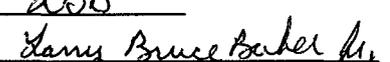
ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, lab results, PID (field) screenings, cross-section, compaction results, hydraulic conductivity, proctor, chloride curve

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

SITE SUPERVISOR John Harrison SIGNATURE  COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE  DATE 3-3-11

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

BD Jct. G-12

Unit G, Section 12, T22S, R37E

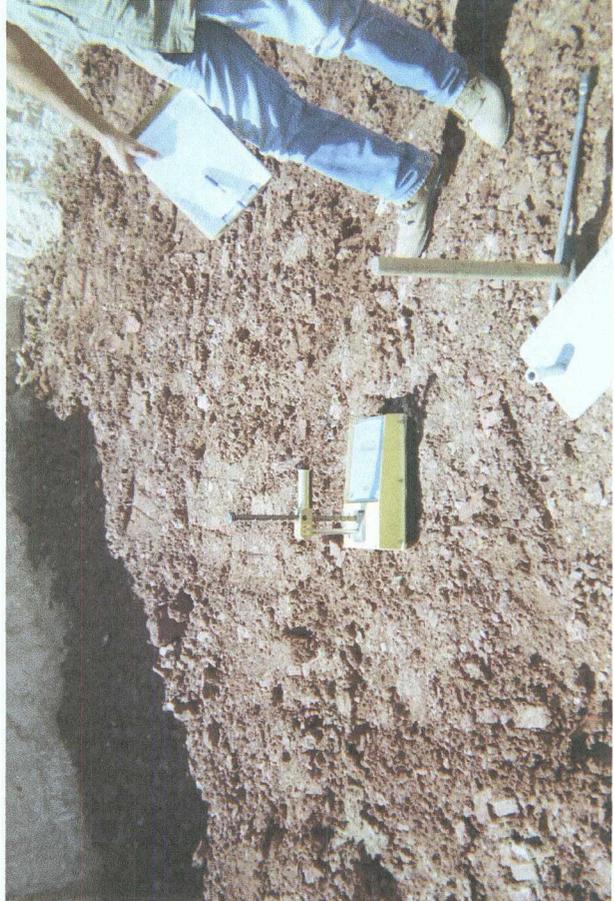


Site prior to delineation



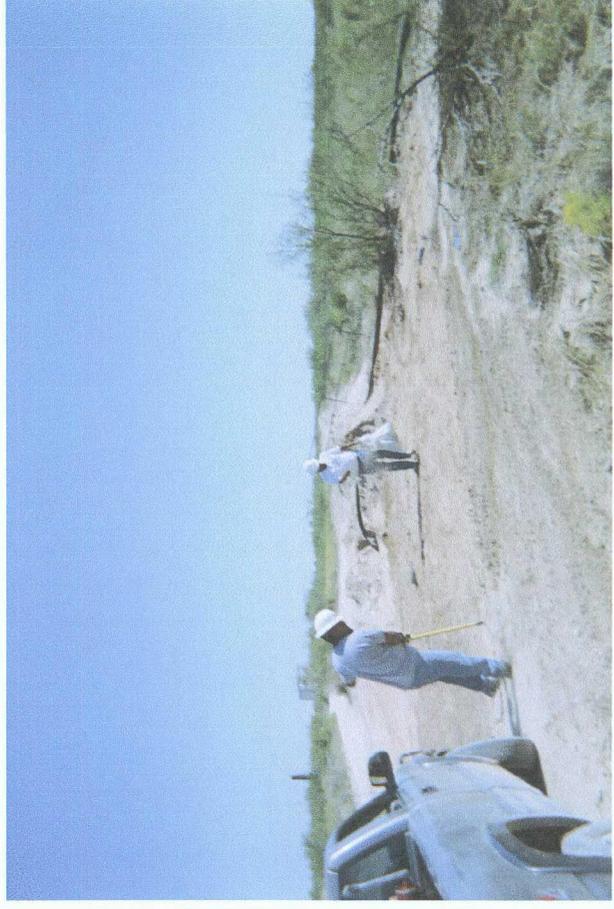
Delineation trench being excavated

8/30/2010



Compaction test

9/16/2010



Seeding excavation

9/30/2010

Analytical Results For:

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

Received:	09/02/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	BD JCT G-12 22/37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT. BOTTOM COMP (H020793-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/03/2010	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/09/2010	ND	161	80.5	200	0.619		
DRO >C10-C28	122	10.0	09/09/2010	159	162	81.0	200	0.615		
<i>Surrogate: 1-Chlorooctane</i>		83.2 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>		87.5 %	70-130							

Sample ID: 4 WALL COMP (H020793-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/03/2010	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/09/2010	ND	161	80.5	200	0.619		
DRO >C10-C28	<10.0	10.0	09/09/2010	159	162	81.0	200	0.615		
<i>Surrogate: 1-Chlorooctane</i>		77.5 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>		84.0 %	70-130							

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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
 Bruce Baker
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received: 09/02/2010
 Reported: 09/10/2010
 Project Name: BD JCT G-12 22/37
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/02/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BLENDED BACKFILL (H020793-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/03/2010	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/09/2010	ND	161	80.5	200	0.619		
DRO >C10-C28	44.4	10.0	09/09/2010	159	162	81.0	200	0.615		
Surrogate: 1-Chlorooctane	81.7 %	70-130								
Surrogate: 1-Chlorooctadecane	85.4 %	70-130								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **RECE OPERATING**
 Project Manager: **BRUCE BAKER**
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: **BO JET 6-12 22/37**
 Project Location: _____
 Sampler Name: **HARRISON**

Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
			GROUNDWATER	WASTEWATER	SOIL					
H2O 793-1	SPT BOT COMP	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	9/2/10	1:25	✓	COPY
2	4 WALL COMP	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	9/2/10	1:34	✓	
3	BLENDED BACKFILL	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓	9/2/10	2:20	✓	

FOR LAB USE ONLY

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Relinquished By: **ROBERT HARRISON** Date: **9/2/10** Time: **4:07**
 Received By: **Jode Newton**
 Delivered By: (Circle One) **UPS** - UPS - Bus - Other:
 Sample) - UPS - Bus - Other:
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: **EMMAE L RESULTS**

#26

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:

✓

Model: PGM 7300 Serial No: 590-000183
 Model: PGM 7300 Serial No: 590-000508
 Model: PGM 7300 Serial No: 590-000504

Model: PGM 7600 Serial No: 110-023920
 Model: PGM 7600 Serial No: 110-013744
 Model: PGM 7600 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 930360	EXPIRATION DATE: 5/24/13
FILL DATE: _____	METER READING ACCURACY: 100.0 ppm

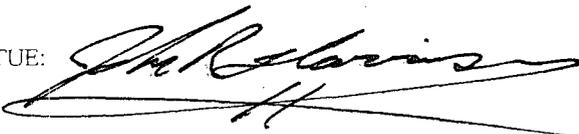
ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	G-12	G	12	225	37E

SAMPLE ID	PID	SAMPLE ID	PID
15' W 2'	88.6		
4'	131.9		
6'	62.8		
8'	77.4		
10'	45.1		
12'	55.3		
5A Bot Comp	20.3		
4 WALL Comp	13.2	COPY	
BLENDED BACKFILL	13.1		

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

SIGNATURE: _____

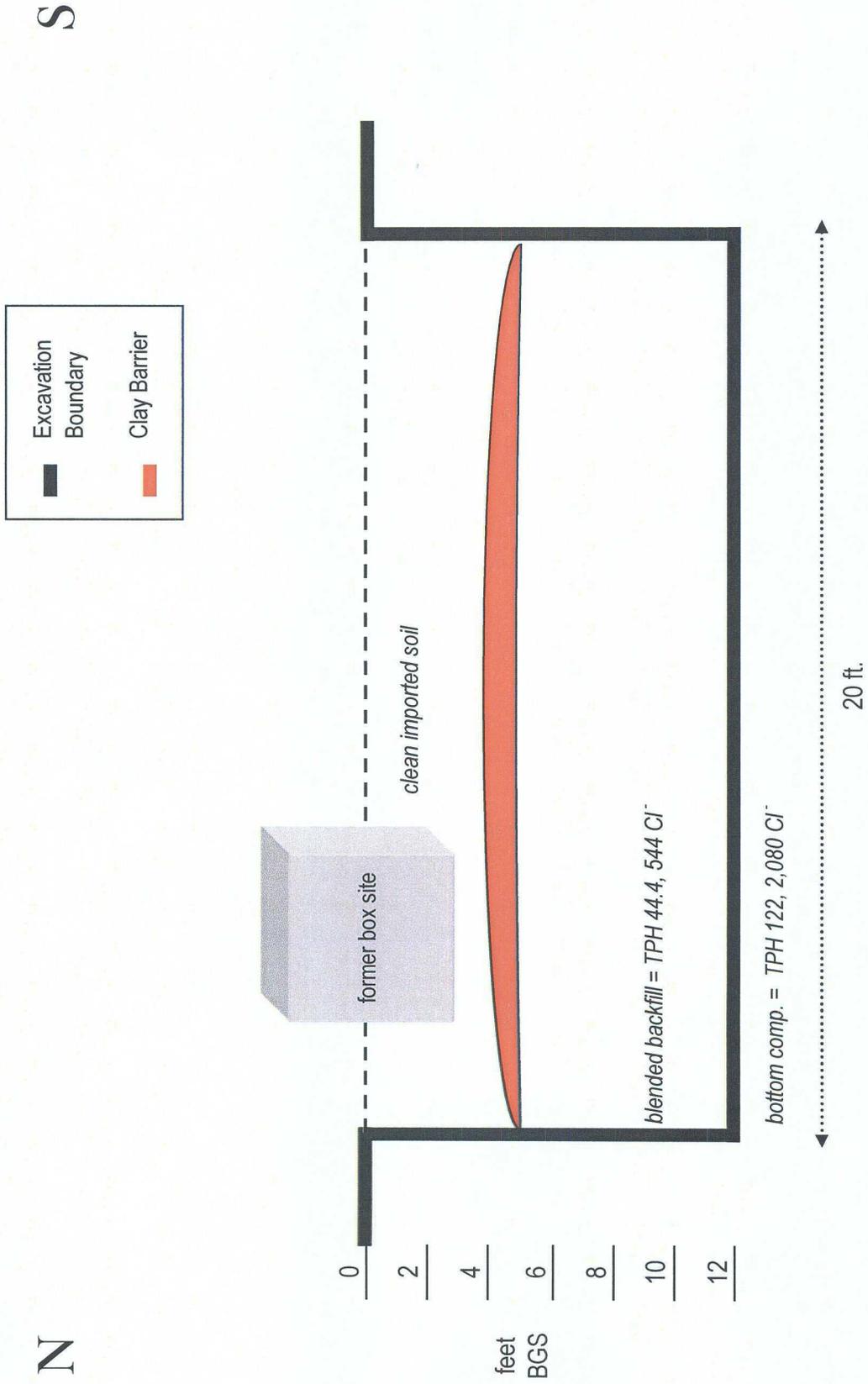


DATE: _____

9/2/10

BD JCT G-12
Unit 'G', Sec. 12, T22S, R37E

Excavation Cross-Section





LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
 1110 N. GRIMES
 HOBBS, NM 88240
 (575) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Company
 122 W. Taylor
 Hobbs, NM 88240

Material: Wallach Red Clay

Test Method: ASTM: D 2922

Project: BD G-12 (22/37)
 Project No. 2010.1285

Date of Test: September 16, 2010

Depth: See Below

Depth of Probe: 6"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 1	10' N. & 5' E. of SW Corner	83.4	16.8	5' Below Natural Ground
RT SG 1	10' N. & 5' E. of SW Corner	90.5	17.5	5' Below Natural Ground

COPY

Control Density: 101.1
 ASTM: D 698

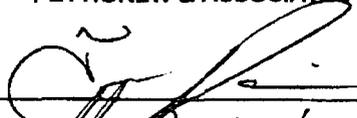
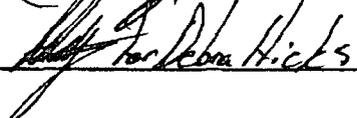
Optimum Moisture: 19.0%

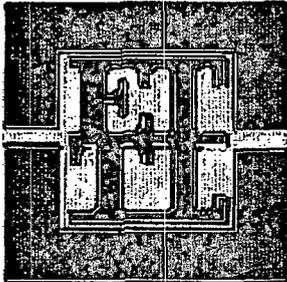
Required Compaction: 90-95%

Densometer ID: 5071
PETTIGREW & ASSOCIATES

Lab No.: 10 9337-9339

Copies To: Rice Operating

BY: 
 BY:  P.E.



Home Office - 1717 East Erwin Street
Tyler, Texas 75702-6398

Office: (803) 595-4421 Lab: (803) 595-6402 Fax: (803) 595-6113

Area Offices

210 Beach Street
707 West Cotton St.

Texarkana, AR 71854
Longview, TX 75604

(870) 772-0013
(803) 758-0402

Acct ID: **PETTIGREW** File ID: **C4535-101**
Report Date: **08/27/2010**
Project: **Pettigrew Associates - Project #2010.1026, Hobbs, NM**
Location: **Material Origin: Wallach Pit, Sample Location: N/G**
Client: **Pettigrew & Associates, Hobbs, NM**
Contractor: **Not Given**

Date Sampled: **08/19/2010**
Sampled By: **Client**
By Order Of: **Erica Hart**
Order Number:

REPORT: FLEXIBLE WALL PERMEAMETER

LAB NO: **9881**
Test Method: **See Below**

TEST RESULTS

Report No: **1-1201-000005**
Page 1 of 2

**HYDRAULIC CONDUCTIVITY DETERMINATION
FLEXIBLE WALL PERMEAMETER - CONSTANT VOLUME
(Mercury Permometer Test)**

Project: **Rice Operating Project 2010.1026 for Pettigrew & Associates, P.A., Hobbs, NM**
Date: **8/25/2010** Panel Number: **P 2 ; ASTM D 5084**
Project No.: **C 4535-101** Permometer Data

Boring No.:	ap = 0.031416 cm2	Set Mercury to Pipet Re-Set	Equilibrium	1.8	cm3
Sample: 9881	aa = 0.767120 cm2		Pipet Rp	6.7	cm3
Depth (ft):	M1 = 0.030180	C = 0.000448509	Annulus Ra	1.5	cm3
Other Location: Wallach Pit	M2 = 1.040953	T = 0.203785086			
Material Description: Red Clay (Clients Sample No 10 5904-5906) Lab Molded @ ~95% ASTM D 898					

SAMPLE DATA

Wet Wt. sample + ring or tare:	507.52	g	Before Test	Tare No.:	T 9	After Test	Tare No.:	T 2
Tare or ring Wt.:	0.0	g	Wet Wt.+tare:	850.96	Wet Wt.+tare	726.56		
Wet Wt. of Sample:	507.52	g	Dry Wt.+tare:	716.43	Dry Wt.+tare	621.60		
Diameter:	2.72	in	Tare Wt.:	220.51	Tare Wt.:	216.58		
Length:	2.75	in	Dry Wt.:	495.92	Dry Wt.:	405.01		
Area:	5.79	in ²	Water Wt.:	134.53	Water Wt.:	106.98		
Volume:	15.94	in ³	% moist.:	27.1	% moist.:	26.4		
Unit Wt.(wet):	121.23	pcf						
Unit Wt.(dry):	85.36	pcf						

Assumed Specific Gravity: **2.65** Max Dry Density (pcf) = **101.1** OMC = **19**
% of max = **94.3** +/- OMC = **6.13**
Calculated % saturation: **95.26** Void ratio (e) = **0.73** Porosity (n) = **0.42**

COPY

Charge: Pettigrew & Associates Attn: Erica Hart
Orig: Pettigrew & Associates, Hobbs, NM Attn: Erica Hart
1-ec Pettigrew & Associates, Hobbs, NM Attn: Erica Hart
E-Mail: ehart@pettigrew.us



PETTIGREW & ASSOCIATES, P.A.

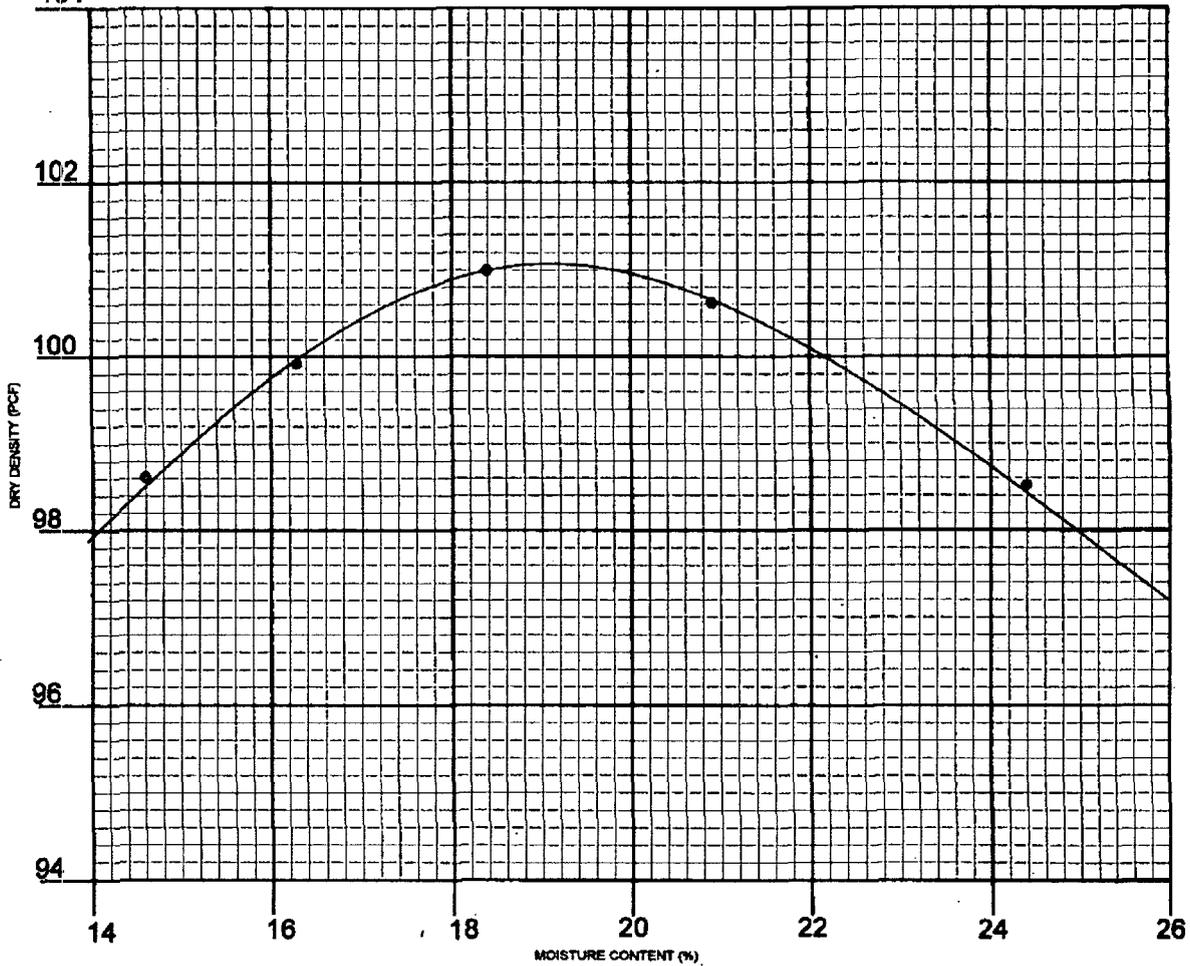
1110 N. GRIMES ST.

HOBBS, NM 88240

(575) 393-9827



104



General Information

CLIENT: Rice Operating PROJECT: Project No. 2010.1026

SAMPLE LOCATION: Wallach Pit

SOIL DESCRIPTION: Wallach Red Clay

SOIL CLASSIFICATION: _____ TEST METHOD: ASTM: D 698

ATTERBERG: LL _____ PI _____ Sampled & Delivered 8/13/10

DATE: 8/13/10 LAB NO. 10 5904-5906

DRY WEIGHT LB/CU. FT. 101.1 MOISTURE CONTENT % 19.0

SIEVE ANALYSIS - % PASSING									

PETTIGREW & ASSOCIATES

COPY

COPIES: Rice Operating

BY: Erica M. Hart

BY: [Signature] P.E.

CHLORIDE CONCENTRATION CURVE

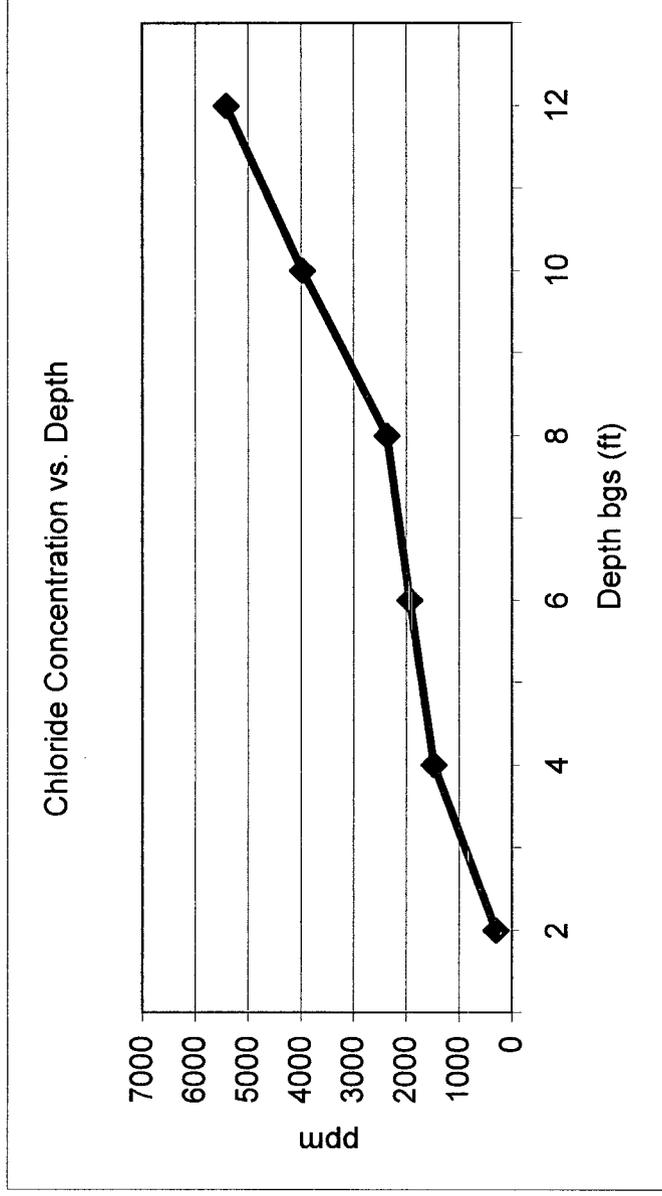
RICE Operating Company

BD Jct. G-12

Unit 'G', Sec. 12, T22S, R37E

Backhoe samples 5 ft. south of the junction (source)

Depth bgs (ft)	[Cl ⁻] ppm
2	297
4	1476
6	1934
8	2367
10	3972
12	5414



Groundwater = 55 ft.