District I P.O. Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos, Aztec; NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

#### Stare of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 OPERATOR'S MONTHLY REPORT

Form C-141 Originated 2/13/97

Submit 2 copies to Appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action         OPERATOR       Initial Report									
Name Rice Operating Company	Contact Chris Rodriguez								
Address122 West TaylorHobbs, NM 88240	Telephone No. 505-393-9174								
Facility Name EME SWD System	Facility Type Junction Box								

Surface Owner	Mineral Owner	Lease No.
State		

LOCATION OF RELEASE												
Unit Letter F	Section 36	Township 19S	Range 36E	Feet from the	North/South line	Feet from the	East/West Line	County LEA				

NATURE O	<b>FRELEASE</b>	
Type of Release	Volume of Release	Volume Recovered
Produced Water	Unknown	100 bbls
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
3" Tee	8-8-02 12:15 pm	8-8-02 12:15 pm
Was Immediate Notice Given?	If YES, To Whom?	P
X Yes No	Larry Johnson NMOCD Ex	t. 111
By Whom?	Date and Hour	
Chris Rodriguez	8-12-02 3:30 pm	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercou	rse.
□ Yes ⊠No		
If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Neces	isary)	
Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets	: If Necessary).	
Line inside of the junction box pressured up causing a tee at the junction b	ox to fail.	
84 yards of high impacted soil was hauled off to a permitted disposal facil	ity.	
Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If N 7,100 square feet was impacted by the event.	ecessary)	
An unknown amount of barrels were released.		-
100 bbls were recovered and hauled to an EME SWD disposal facility.		
I hereby certify that the information given above is true and complete to the best of my kr	lowledge and understand that pursuant to NMOCL	rules and regulations all operators are
required to report and /or file certain release notifications and perform corrective actions t	for releases which may endanger public health or t	he environment. The acceptance of a
C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of li	ability should their operations have failed to adequ	ately investigate and remediate
contamination that pose a threat to ground water, human health or the environment. In ad	difion, NMOCD acceptance of a C-141 report doe	s not relieve the operator of responsibility
Signature:	OIL CONSERVATION	DIVISION
Chris lad ngus	Approved by $11 - 1.0$	-
Printed Name: Chris Rodrighez	District Supervisor: Mis Will	llows
Title: Environmental Technician	Approval Date:	Expiration Date:
	7/14/07	9/14/07
Date: August 13. 2002 505 393-9174	Conditions of Approval:	Attached
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District 1 P.O. Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 OPERATOR'S MONTHLY REPORT

Submit 2 copies to Appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action    OPERATOR   Initial Report									
Name Rice Operating Company	Contact Kristin Farris Pope	-							
Address 122 West Taylor Hobbs, NM 88240	Telephone No. 505-393-9174								
Facility Name Eunice-Monument-Eumont (EME) SWD System	Facility Type SWD Disposal Line								

Surface Owner	Mineral Owner	Lease No.
DLD Land Corporation		

	LOCATION OF RELEASE													
Unit Letter M	Section 36	Township 19S	Range 36E	Feet from the	North/South line	Feet from the	East/West Line	County LEA						

NATURE C	<b>FRELEASE</b>	
Type of Release	Volume of Release	Volume Recovered
Produced Water	Unknown	100 bbls
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
3-inch 'T' in pipeline	8/8/2002 12:15 pm	8/8/2002 12:15 pm
Was Immediate Notice Given?	If YES, To Whom?	
🗵 Yes 🛛 No 🗍 Not Require	d Larry Johnson NMOCD-Ho	obbs
By Whom?	Date and Hour	
Chris Rodriguez	8/12/2002 3:30 pm	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercou	rse.
Yes X No	n/a	
If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Nece	ssary)	
n/a		
11/a		
Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheet	• ·	~
The pipeline inside the junction box pressured up causing fa		ne. 84 cubic yards of high-
impact soils near the surface were removed and disposed of	at a permitted facility.	
``````````````````````````````````````		
Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If N		Ling the soil with first success
Approximately 7,100 sq. ft. Implemented soil flushing proc	edure by applying gypsum and hus	ning the soll with fresh water
over a period of approx. 18 months. When chloride concent		
vegetation, the site was seeded and fertilized. ROC will con	5	
I hereby certify that the information given above is true and complete to the best of my k required to report and /or file certain release notifications and perform corrective actions		
C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of I		
contamination that pose a threat to ground water, human health or the environment. In a	ddition, NMOCD acceptance of a C-141 report doe	s not relieve the operator of responsibility
for compliance with any other federal, state, or local laws and /or regulations.		DIVISION
Signature: Anistin Janis Pope	OIL CONSERVATION	DIVISION
Million Carris Tope	Approved by	0
Printed Name: Kristin Farris Pope	District Supervisor:	Ellienar
Title: Project Scientist	Approval Date: 9/11/07	Expiration Date: 9/14/07
Date: 9-22-04 Phone: 505-393-9174	Conditions of Approval:	Attached

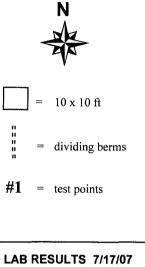
# EME State 'F' EOL Leach/Leak Site

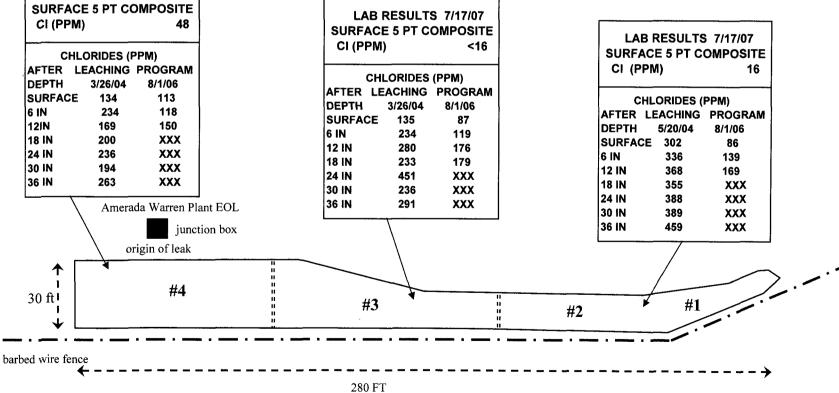
unit 'M', sec. 36, T19S, R36E

LAB RESULTS 7/17/07

NO GROUNDWATER PRESENT

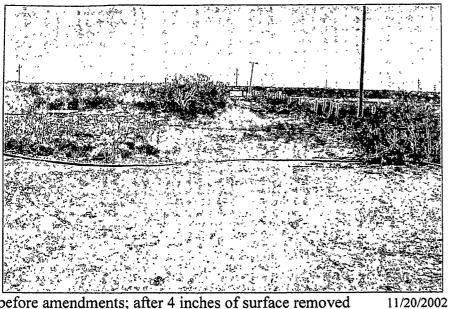
#### CHLORIDE CONCENTRATIONS AFTER SEEDING SITE SEEDED IN 2004



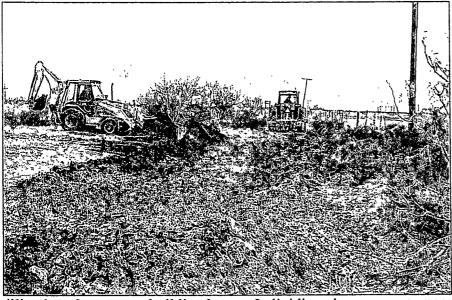




## EME State 'F' Leach/Leak site



before amendments; after 4 inches of surface removed



tilling hay & gypsum; building berms & dividing site 11/25/2002 unit 'M', sec. 36, T19S, R36E

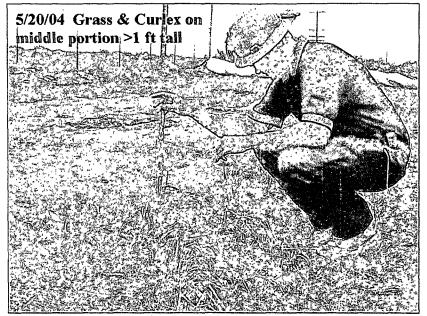


1,500 lbs. gypsum applied (looking east) 11/25/2002

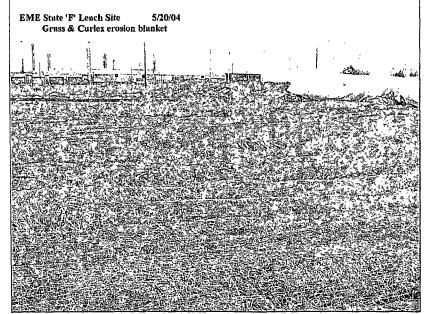


laying jute erosion blanket

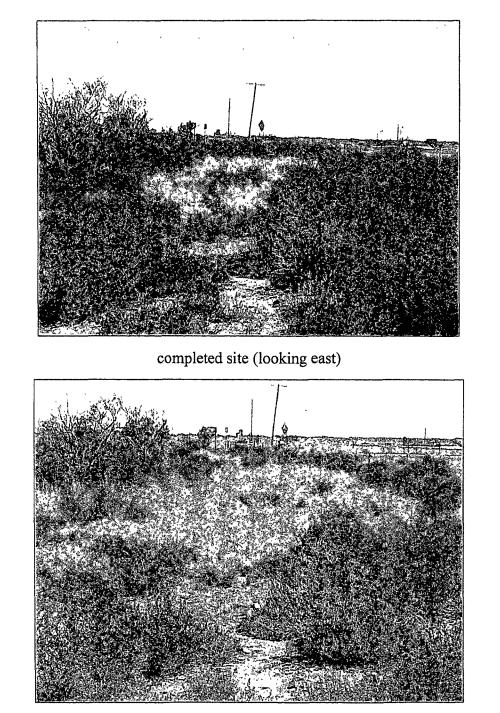
sampling at test point 1/7/2004



native grasses > 1 ft tall emerging through erosion blanket

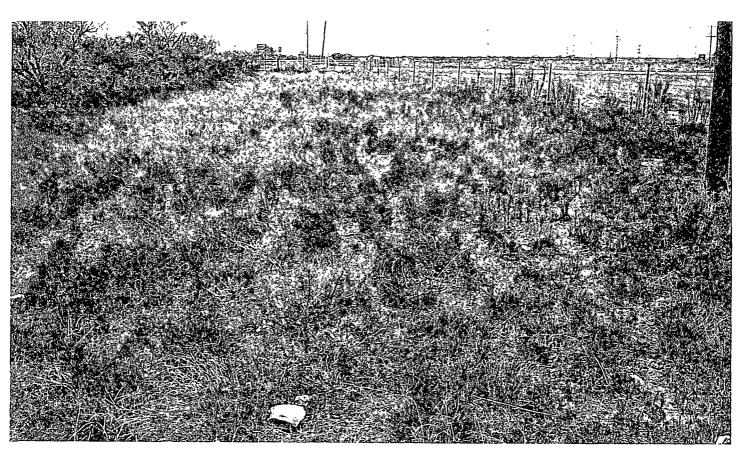


grasses emerging through erosion blanket





State 'F' EOL leak site; 3 years after seeding (facing East) 2-12-2007





PHONE (325) 673-7001 + 2111 BEECHWOOD + ABILENE TX 79503

PHONE (505) 393-2326 . 101 € MARLAND . HOBBS NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: HACK CONDER 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 07/18/07 Reporting Date: 07/19/07 Project Owner: NOT GIVEN Project Name: EME STATE "F" LEACH/LEAK SITE Project Location: W. OF ARTESIA, NM

LAB NUMBER SAMPLE ID

Analysis Date: 07/18/07 Sampling Date: 07/17/07 Sample Type: SOIL Sample Condition; COOL & INTACT Sample Received By: NF Analyzed By: HM

> Ci<sup>--</sup> (mg/Kg)

H12920-1	AREA 1 AND 2 SURF COMP	16
H12920-2	AREA 3 SURF COMP	< 16
H12920-3	AREA 4 SURF COMP	48
·····		······
Quality Contr	lo	500
True Value C		500
% Recovery		100
Relative Perc	cent Difference	4.1

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts,

Toni

Date

H12920 RICE

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing. Whether based in contract in toil, shall be limited to the amount paic by client for analyse. All claims, including those for negligence and any other cause wheteoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) davs after completion or the approximation, business interruptions for negligence and any other cause wheteoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) davs after completion or the approximation or solution and the approximation or the approximation or analyse in a solution or analyse in a solution or analyse in a solution or the approximation or analyse in the approximation or the approximation or the approximation or approximation or the approximation or approximation or approximation of a related to the performance of enviros thereaded by Cardinal, regardless of whether such claim is based uport, any of the above includents or otherwise. ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603	101 East Marland, Hobbs, NM 98240
(325) 673-7001 Fax (325) 673-7020	(505) 393-2326 Fex (505) 393-2476

		d, Abilene, TX 796 1 Fax (325) 673-70										0								Page	of	
Company Name:	RICE			\					Ċ.	1945) 1945		Ť.	LTO				ANAL	YSIS	REQ	UEST		
Project Manager:	HACK CONDER								P, (	D. #:								}	1	}		
Address: (	22W. TAYLOR	······································							Co	mps	iny:		······································				}			*		
city: HO	BBS	State: 1/11	Zip	: 8	88 Z	4 <u>G</u>			Att	tn:			·							1		
Phone : 393	-9174	Fax #: 397	-/.	$\{7\}$					Ad	dres	18:											
Project #:		Project Owner:							Cit	y:											1	
Project Name:	EME State 'F' 1	each/leak sil	e						su	ato;			Zlp;	•								
Project Location:		,							Ph	one	#:											
Sampler Name:									Fa	x #:			**		5		ļ					1
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Sampler - UPS -	Bus - Other:								res No	(In	illa Is	1	1.7.									

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

(ESP-12)(CEC)(0.00078) = \_\_\_\_\_Ibs. (aSO4/sq. ++.

302 34th St. • P.O. Box 1590 • Lubbock, TX 79408 • (806) 763-4278 FAX (806) 763-2762 • www.al-labs-plains.com



REPORT NUMBER

02-280-02a

October 7, 2002

RICE Operating Co.

122 West Taylor

Attn. D. Anderson

Hobbs, N.M. 88240

#### Saturated Paste Extract

Lab No.	Sample ID	Matrix	SAR	Sodium	Calcium	Magnesium
				ppm	ppm	ррт
95286	ST."F" EDL	Soil	68.10	14323 8	2661.0	401.8
95287	BD B-4-1	Soil	24.23	2290.9	600.9	42.9

Lab No.	Sample ID	Matrix	pН	ESP	E.C	CEC
			ppm		mmhos/cm	meq/100g
95286	ST."F" EDL	Soil	7.00	49.80	63 30	7.3
95287	BD B-4-1	Soil	7 39	26.30	13 80	3.6

pectfully submi

A&L Plains Ag Labs, Inc.

302 34th St. ● P.O. Box 1590 ● Lubbock, TX 79408 ● (806) 763-4278 FAX (806) 763-2762 ● www.al-labs-plains.com



REPORT NUMBER

CLIENT NO: 1228

**GROWER** 

SEND TO:

Rice Operating Co. 122 W. Taylor Hobbs, NM 88240SAMPLES SUBMITTE BECEIVE APROS 2004 RICE OF ERATING HOBRS NM PAGE 1

DATE 03/31/04

## SOIL ANALYSIS REPORT

PHOSPHORUS POTASSIUM MAGNESIUM ORGANIC CALCIUM SODIUM pН COMPUTED PERCENT BASE SATURATION SAMPLE LAB MATTER к Mg Са Na Cation BUFFER P1 P2 SOIL ID NUMBER % RATE ENR \*\* \*\*\* \*\*\* \*\*\* Exchange (Weak Bray) (Strong Bray) CEC meq/100g К Са н Na Mg ppm-K RATE ppm-Mg RATE ppm-Ca RATE ppm-Na RATE INDEX pН lbs/A ppm-P RATE ppm-P RATE 1 15742 1.2L 54 22M 55H 489VH 167L 2702M 1141VH 8.1 5.9 6.5 64.0 0.0 23.5 21.1

SAMPLE ID	NITRATE NO3 *** ppm-NO3N RATE	SULFUR S *** ppm-S RATE	ZINC Zn *** ppm-Zn RATE	MANGANESE Mn *** ppm-Mn RATE	Fe ***	COPPER Cu *** ppm-Cu RATE	BORON B *** ppm-B RATE	EX- CESS LIME RATE	SOLUBLE SALTS mmhos/cm RATE	CODE TO RATINGS VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH NR = NOT RATED
1	71	4vL	5.8н	11M	41H	2.8H	1.5H	L	1.1M	ND = NONE DETECTED IS = INSUFFICIENT SAMPLE ENR = ESTIMATED NITROGEN RELEASE This report applies only to the sample(s) tested Samples are retained for a maximum of thirty days after testing A & L PLAINS AGRICULTURAL LABORATORIES, INC.
										 By: E. A. COLEMAN, PhD

PHOSPHORUS - Multiply the results in ppm by 4.6 to convert to lbs per acre P205 \*\* - Multiply the results in ppm by 2.4 to convert to lbs per acre K20 \*\*\* - Multiply the results in ppm by 2 to convert to lbs per acre of the elemental form

Most soils weigh two (2) million pounds (dry weight) for an acre of soil 6-2/3 inches deep

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REPORT NUMBER

04-089-185

		Client No: 1228	
SEND TO:			
	Rice Operating Co.	GROWER:	Date: 03/31/2004
	122 W. Taylor		
	Hobbs, NM 88240-	SUBMITTED BY:	Page: 1

### SOIL FERTILITY GUIDELINES (Ibs/A)

SAMPLE NUMBER		YIELD	AMENDMENTS	N Nitrogen	P205 Phosphate	K2O Potash	Mg Magnesium	S Sulfur	Zn Zinc	Mn Manganese	Fe Iron	Cu Copper	B Boron
1	NATIVE GRASS		GYPSUM 1000	90	20		10						

#### COMMENTS:

TOP DRESS WITH 80-0-0 AFTER EACH HARVEST.

WATCH HIGH Na. GYPSUM OR OTHER CA SOURCE SHOULD HELP. TRY TO KEEP % BASE SATURATION NA <8% IF POSSIBLE. CONSIDER IRR WATER ANALYSIS TO DETERMINE SOURCE OF Na.

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04-089-185

REPORT NUMBER

CLIENT NO 1228

GROWER

SAMPLES SUBMITTED BY.

SEND TO

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

DATE 03/31/04

## SOIL ANALYSIS REPORT

PAGE. 1

		ORGANIC	PHOSPHORUS	POTASSIUM	MAGNESIUM	CALCIUM	SODIUM	p	-1			COMPL	JTED		
SAMPLE	LAB	MATTER	P1 P2	K	Mg	Ca	Na ***	SOIL	BUFFER	Cation Exchange	P	ERCENT	BASE SA	TURATIO	4
ID	NUMBER	% RATE ENR lbs/A			ppm-Mg RATE	ppm-Ca RATE	ppm-Na RATE	рН	INDEX	C E C meq/100g	к	Mg	Ca	Н	Na
1	15742	1.2L 54	22M 55H	489VH	167L	2702M	1141VH	8.1		21.1	5.9	6.5	64.0	0.0	23.5
								1							
					 	 	<u> </u>								

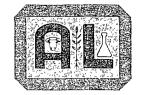
SAMPLE ID	NITRATE NO3 *** pptt-NO3N RATE	SULFUR S *** ppm-S RATE	ZINC Zn *** ppm-Zn RATE	MANGANESE Mn *** ppm-Mn RATE	Fe ***	COPPER Cu *** ppm-Cu RATE	BORON B *** ppm-B RATE	EX- CESS LIME RATE	SOLUBLE SALTS mmhos/cm RATE	CODE TO RATINGS VL = VERY LOW M = MEDIUM VH = VERY HIGH	L = LOW H = HIGH NR = NOT RATED
1	71	4VI.	5.8н	11M	41H	2.8H	1.5H	L	1.1M	ND = NONE DETECTED IS = INSUFFICIENT SA ENR = ESTIMATED NIT This report applies only to the	MPLE ROGEN RELEASE
											thirty days after testing IRAL LABORATORIES, INC.

PHOSPHORUS - Multiply the results in ppm by 4.6 to convert to lbs per acre P205 \*\* - Multiply the results in ppm by 2.4 to convert to lbs per acre K20 \*\*\* - Multiply the results in ppm by 2 to convert to lbs per acre of the elemental form

Most soils weigh two (2) million pounds (dry weight) for an acre of soil 6-2/3 inches deep

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REPORT NUMBER

04-089-185

SEND TO:

Rice Operating Co.	GROWER:	Date: 03/31/2004
122 W. Taylor		
Hobbs, NM 88240-	SUBMITTED BY:	Page <sup>•</sup> 1

Client No: 1228

#### SOIL FERTILITY GUIDELINES (Ibs/A)

SAMPLE NUMBER		YIELD	AMENDMENTS	N Nıtrogen	P205 Phosphate	K2O Potash	Mg Magnesium	S Sulfur	Zn Zinc	Mn Manganese	Fe Iron	Cu Copper	B Boron
1	NATIVE GRASS		GYPSUM 1000	90	20		10						

#### COMMENTS:

TOP DRESS WITH 80-0-0 AFTER EACH HARVEST.

WATCH HIGH Na. GYPSUM OR OTHER CA SOURCE SHOULD HELP. TRY TO KEEP % BASE SATURATION Na <8% IF POSSIBLE. CONSIDER IRR WATER ANALYSIS TO DETERMINE SOURCE OF Na.

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## A & L PLAINS AGRICULTURAL LABORATORIES, INC.

302 34th St. ● P.O. Box 1590 ●Lubbock, TX 79408 ● (806) 763-4278 FAX (806) 763-2762 ● www.al-labs-plains com



.

04-089-185

REPORT NUMBER

SEND TO

CLIENT NO 1228

GROWER

SAMPLES SUBMITTED BY

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

DATE 03/31/04

## SOIL ANALYSIS REPORT

PAGE 1

Γ			ORGANIC	PHOSPI	HORUS	POTASSIUM	MAGNESIUM	CALCIUM	SODIUM	pł	4			COMPL	JTED		
	SAMPLE	LAB	MATTER	P1	P2	K	Mg	Ca	Na	SOIL	BUFFER	Cation Exchange	P	ERCENT	BASE SA	TURATIO	N
2	D	NUMBER	% RATE ENR Ibs/A	(Weak Bray) ppm-P RATE		ppm-K RATE	ppm-Mg RATE	ppm-Ca RATE	срт-Na RATE	pН	INDEX	C E C meq/100g	к	Mg	Ca	Н	Na
110	1	15742	1.2L 54	22M	55H	489VH	167L	2702M	1141VH	8.1		21.1	5.9	6.5	64.0	0.0	23.5
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	SAMPLE ID	NITRATE NO3 *** ppid-NO3N RATE	SULFUR S	ZINC Zn *** ppm-Zn RATE	MANGANESE Mri ppm-Mn RATE	Fe	COPPER Cu +++ ppm-Cu RATE	BORON B •••• ppm-8 RATE	EX- CESS LIME RATE	SOLUBLE SALTS mmhos/cm RATE	CODE TO RATINGS <sup>.</sup> VL = VERY LOW M = MEDIUM VH = VERY HIGH	L = LOW H = HIGH NR = NOT RATED
1 L . U U L	1	71.	4VL	5.8H	11M	41H	2.8H	1.5H	L	1.1M	ND = NONE DETECTED IS = INSUFFICIENT SAI ENR = ESTIMATED NITI This report applies only to the s are retained for a maximum of	MPLE ROGEN RELEASE sample(s) tested Samples
**					·						A&LPLAINS AGRICULTU By E. A COL	RAL LABORATORIES, INC

PHOSPHORUS - Multiply the results in ppm by 4.6 to convert to this per acre P2O5

Multiply the results in opin by 2.4 to convert to the per acre KZO.

\*\*\* - Multiply the results in ppm by 2 to convert to this per acre of the elemental form

Most soils weigh two (2) million pounds (dry weight) for an acre of soil 6-2/3 inches deep

Complexity on Hotels on Hotels on the events of the two output of the open-output of the part norm in any construction from the results on the company in any advertising news release or other public announcements



302 34th St • PO Box 1590 • Lubbock, TX 79408 • (806) 763-4278 FAX (806) 763-2762 • www al-labs-plans com



Stream the Cherry

04-089-185

		Client No: 1228	4.	
SEND TO				
	Rice Operating Co.	GROWER.	Date (	03/31/2004
	122 W. Taylor			
	Hobbs, NM 88240-	SUBMITTED BY	Page <sup>.</sup>	1

#### SOIL FERTILITY GUIDELINES (Ibs/A)

SAMPLE NUMBER	CROP	YIELD	AMENDMENTS	N Nitrogen	P205 Phosphate	K2O Potash	Mg Magnesium	S Sulfur	Zn Zinc	Mn Manganese	Fe	Cu Copper	B Baron
1	NATIVE GRASS		GYPSUM 1000	90	20		10						

#### COMMENTS:

TOP DRESS WITH 80-0-0 AFTER EACH HARVEST.

WATCH HIGH Na. GYPSUM OR OTHER CA SOURCE SHOULD HELP. TRY TO KEEP & BASE SATURATION NA <8% IF POSSIBLE CONSIDER IRR WATER ANALYSIS TO DETERMINE SOURCE OF NA.

$$(ESP-5)(CEC)(0.00078) = _____ lbs.gyp./ft^{2}$$
  
 $(49.8-5)(21.1)(0.00078) = .74$ 

The recommendations are based on research data and expenence, but NO GUARANTEE or WARRANTY A & L PLAINS AGRIGULTURAL LABORATORIES, INC expressed or implied, concerning crop performance is made

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REPORT NUMBER

02-280-02a

October 7, 2002

RICE Operating Co.

122 West Taylor

Hobbs, N.M. 88240

Attn: D. Anderson

#### **Saturated Paste Extract**

Lab No.	Sample ID	Matrix	SAR	Sodium	Calcium	Magnesium	
				ppm	ppm	ppm	
95286	ST."F" EDL	Soil	68.10	14323.8	2661.0	401.8	
95287	BD B-4-1	Soil	24.23	2290.9	600.9	42.9	

Lab No.	Sample ID	Matrix	pН	ESP	E.C.	CEC	
			ppm		mmhos/cm	meq/100g	
95286	ST."F" EDL	Soil	7.00	49.80	63.30	7.3	
95287	BD B-4-1	Soil	7.39	26.30	13.80	3.6	



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Respectfully submitted,

by A&L Plains Ag Labs, Inc.