

GENERAL CORRESPONDENCE

DATE: 2007 - 1998

Hansen, Edward J., EMNRD

From:	Hall, Sharon [Sharon.Hall@arcadis-us.com]
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Sent: Friday, February 09, 2007 4:13 PM

To: Hansen, Edward J., EMNRD; kpope@riceswd.com

Cc: Price, Wayne, EMNRD; chaynes@riceswd.com

Subject: Re: BD H-35 pit Abatement Plan submittal extension (1R0216)

Thank you Ed. Sharon

-----Original Message-----From: Hansen, Edward J., EMNRD <edwardj.hansen@state.nm.us> To: Kristin Pope <kpope@riceswd.com> CC: Price, Wayne, EMNRD <wayne.price@state.nm.us>; Carolyn Haynes <chaynes@riceswd.com>; Hall, Sharon Sent: Fri Feb 09 14:38:03 2007 Subject: RE: BD H-35 pit Abatement Plan submittal extension (1R0216)

Dear Ms. Pope:

The NMOCD has reviewed your request for an extension to submit the Abatement Plan requested by the NMOCD regarding the above referenced site. Per your email of February 7, 2007, the NMOCD understands that an additional 60 days is required to finalize a monitoring well agreement. Therefore, the NOMAD hereby approves the request for extension for submittal of additional information until Friday, April 13, 2007.

2/25

Please be advised that NOMAD approval of this extension does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, NOMAD approval does not relieve the owner/operator of responsibility for compliance with any NOMAD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489. Also, in the future please send all correspondence regarding this case to me. Thank you.

Edward J. Hansen Hydrologist Environmental Bureau

From: Kristin Pope [mailto:kpope@riceswd.com] Sent: Wednesday, February 07, 2007 4:26 PM To: Price, Wayne, EMNRD; Hansen, Edward J., EMNRD Cc: Hall, Sharon; Carolyn Haynes Subject: BD H-35 pit Abatement Plan

Wayne,

In response to your letter of December 8th, 2006 in which you requested a Rule 19 Abatement Plan for the BD H-35 Pit site(1R0216), we respectfully request a 60-day extension to submit this Plan. We have had difficulty obtaining a monitoring well agreement with the surface owner at this site but efforts are ongoing and the situation is currently in legal review.

Arcadis G & M of Midland, TX is our consultant for this project. There is currently one monitoring well on site that is sampled on a quarterly basis.

Thank you for your consideration of this request.

Kristin Farris Pope **Project Scientist**

AP-71 Gen. Cor 2007-1998

RICE Operating Company Hobbs, New Mexico (505) 393-9174

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 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: I. Article Addressed to: <l< th=""><th>SENDER: COMPLETE THIS SECTION</th><th>COMPLETE THIS SECTION ON DELIVERY</th></l<>	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
122 West Taylor 3. Service Type 122 West Taylor Active State	 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: 12-8-06 Kristen Farris Pope Poperatives (compary) 	A. Signature X Agent Addressee B. Received by (<i>Printed Name</i>) C. Date of Delivery Address different from item 1? If YES, enter delivery address below: No
4. Restricted Delivery? (Extra Fee) I Yes 2. Article Number (Transfer from service label) 7001 1940 0004 3929 4418	122 West Taylor ULLL NM 88240	3. Service Type Service Type Segistered Insured Mail C.O.D.
2. Article Number 7001 1940 0004 3929 4418 (Transfer from service label)		4. Restricted Delivery? (Extra Fee)
	2. Article Number (Transfer from service label)	0 0004 3929 4418



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

Mark E. Fesmíre, P.E. Director Oil Conservation Division

CERTIFIED MAIL RETURN RECEIPT NO: 3929 4418

December 8, 2006

Kristen Farris Pope Rice Operating Company 122 West Taylor Hobbs, New Mexico 88240

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN

Dear Ms. Pope:

The New Mexico Oil Conservation Division (OCD) has determined after reviewing your Notification of Groundwater Impact for each of the following five sites:

- 1) Rice Hobbs SWD Jct E-32-1 Unit E, Section 32, T18S, R38E Lea County, New Mexico OCD Case #1R0428-65
- 2) Rice Vacuum Jct E-2 Unit E, Section 2, T18S, R35E Lea County, New Mexico OCD Case #1R0425-01
- Rice Vacuum K-35-1 Boot Unit K, Section 35, T17S, R35E Lea County, New Mexico OCD Case #1R0425-03
- 4) Rice N-6-1 Junction Box Unit N, Section 6, T18S, R35E Lea County, New Mexico OCD Case #1R0479

Kristen Farris Pope December 8, 2006 Page 2

5) Rice BD H-35 Emergency Overflow Pit Unit H, Section 35, T22S, R37E Lea County, New Mexico OCD Case #1R0216

that the Rice Operating Company (ROC) must submit for each of the five sites a separate Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate the ground water contamination at each of these sites. The Stage 1 Abatement Plans must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet of all the requirements specified in OCD Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by ROC of this written notice.

ROC's Stage 1 Abatement Plans must specifically meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the release using an appropriate number of isoconcentration maps and cross sections that depict the contamination that has been released from the sites and to provide the data necessary to select and design an effective abatement option. ROC may, if it chooses, concurrently submit a Stage 2 Abatement Plan that addresses appropriate proactive abatement options.

ROC should submit one paper copy and an electronic copy on CD for each of the Plans and for all future workplans and/or reports for each of the Plans. Please be sure to include the current corresponding OCD Case # on each of the respective Abatement Plans. An Abatement Plan # will be assigned as each of the Plans are submitted to the OCD. If you have any questions, please contact Edward J. Hansen of my staff at (505) 476-3489 or <u>mailto:edwardj.hansen@state.nm.us</u>.

Sincerely,

Wayne Price Environmental Bureau Chief

WP:EJH:ejh

cc: Chris Williams, OCD Hobbs District Supervisor Larry Johnson, OCD Hobbs

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7005 1820 0001 6804 7647

January 16, 2006

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

RE: NOTIFICATION OF GROUNDWATER IMPACT BD H-35 Emergency Overflow Pit Unit 'H', Sec. 35, T22S, R37E NMOCD Case # 1R0216

Mr. Price:

Rice Operating Company (ROC) notifies the New Mexico Oil Conservation Division (OCD), Environmental Bureau of groundwater impact at the above-referenced site in accordance with NM Rule 116. The remediation of this site may be subject to NM Rule 19 procedures.

Groundwater impact at the BD H-35 pit site was discovered during delineation of the emergency overflow pit. These delineation activities were conducted in accordance with the NMOCD-approved work plan for this site and were supervised by the Arcadis G & M (Arcadis) consulting firm of Midland, Texas. A 2-inch monitoring well was installed near the southeast corner of the pit site on December 21, 2005 by White's Drilling of XXX, Texas as chloride impact was indicated by field tests. Groundwater was encountered at approximately 44 ft.

After appropriate development, the well was sampled pursuant to OCD and EPA guidelines by Arc Environmental Services (Arc) of Lovington on January 4, 2006. Environmental Lab of Texas performed the analysis on the samples. Notably, Chloride and Total Dissolved Solids exceed New Mexico Water Quality Control Commission standards. Hydrocarbon constituents (BTEX) were not detected. Arc Environmental will continue to sample the well on a quarterly basis throughout the 2006 year. Investigation of impacts at this site by Arcadis is ongoing.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of the pipelines, wells, or facilities. The BD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental remediation projects of this magnitude require System Partner AFE approval and work begins as funds are received.

Please accept this notification for the above-referenced site. Should you have any questions or concerns regarding this site, please do not hesitate to contact me.

RICE OPERATING COMPANY

Knistin Famis Pope

Kristin Farris Pope Project Scientist

enclosures: water analysis, well log

cc: LBG, CDH, Arcadis, file, D. Sanchez (NMOCD)

Mr. Chris Williams NMOCD, District 1 Office 1625 N. French Drive Hobbs, NM 88240

JAN-06-06 FRI 03:51 PM

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FAX NO.

A THE			WELL NO.
		VVELL LOG	MW-1
ARCADIS	1004 N. Big Spring St. Suite 300, 1	Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401	Page 1 of 1
PROJECT NUMBE CLIENT NAME: PROJECT NAME: SITE LOCATION: DRILLING CO: DRILLING METHO SAMPLE METHO DATE BEGUN: DRILLER: R. LOGGER; R. HI & NAME: MV	R: MT000846 0001 Rice Operating Company 8D H-35 Lea County, New Mexico White Drilling Co. D: Rotary/Air 1: Shovel 12/21/05 DATE COMPLETED; ang ELEVATION (SURF.): ang ELEVATION (1.0.C.); /-1.dat UNIQUE NUMBER:	STATIC WATER LEVEL: MEAS. PT.: T.O.C. HIOLE SIZE(S): 7 7/8" SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3 TYPES GROUT TYPE: GROUT TYPE: Portland Cement SEAL TYPE: Bentonite Chips SCREEN PACK: 8/16 Sand CASING TYPE: 4" Diameter Sch. 40 PVC Blank 12/21/05 WELL SCREEN: 4" Diameter Sch. 40 PVC, 0.020" slots 31-014-00781 PLUG BACK: Bentonite Chips	DATE: TOTAL DEPTH; -55.0' "x6" Conc. Slab <u>DEPTHS</u> -20.0' to Surface -32.0' to -20.0' -55.0' to -32.0' -34.0' to Surface -54.0' to -34.0' -54.0'
DEFTH SAMPLED SAMPLING METHOD	ANALYZED MOISTURE RECOVERY OVM READENG U, S. C. S. CLASS	DESCRIPTION	WELL INSTALLATION
0 -5 -5 -5 -5 -5 -15 -15 -20 -25 -25 -25 -25 -25 -25 -25 -25		SAND 10YR B/3 very pale brown, medium to fine grained, subangular to subrounded, poor molet. SANDSTONE 10YR B/2 very pale brown, medium grained, subangular to well rounded, we camented, well sorted, dry, CALICHE nodules. SANDSTONE 10YR 6/0 light red, line grained, angular, well sorted, soft, dry. SANDSTONE 10R 6/0 light red, line grained, angular, well sorted, soft, dry. SANDSTONE 10R 6/0 light red, line grained, angular, well sorted, soft, dry. SANDSTONE 10R 6/0 light red, line grained, subangular to subrounded, well sorted, soft or spillaceous, molst. Note: Well bocame wat at 45'; water level measured 41'. Some SAND interbads 2.5Y 8/3 yellow, fine grained, well sorted.	y sorted.



Analytical Report

Prepared for:

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

Project: BD H-35 SWD Project Number: None Given Location: Lea County

Lab Order Number: 6A05002

Report Date: 01/13/06

·		
Rice Operating Co.	Project: BD H-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	01/13/06 12:33

ANALYTICAL REPORT FOR SAMPLES

Pi

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6A05002-01	Water	01/04/06 09:45	01/04/06 17:00

.

Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

01/13/06 12:33

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A05002-01) Water									
Benzene	ND	0.00100	mg/L	1	EA60408	01/05/06	01/09/06	EPA 8021B	
Toluene	ND	0.00100	n	"	"	'n	"	н	
Ethylbenzene	ND	0.00100		0	n		"	в	
Xylene (p/m)	ND	0.00100		"		"	н	"	
Xylene (o)	ND	0.00100	"	"		"	"	स	
Surrogate: a,a,a-Trifluorotoluene		92.0%	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-12	0	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 10

12600 West 1-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

01/13/06 12:33

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A05002-01) Water									
Total Alkalinity	110	2.00	mg/L	1	EA61216	01/12/06	01/12/06	EPA 310.1M	
Chloride	1880	25.0	"	50	EA61009	01/10/06	01/10/06	EPA 300.0	
Total Dissolved Solids	4290	5.00	۳	1	EA60605	01/05/06	01/06/06	EPA 160.1	
Sulfate	383	25.0	"	50	EA61009	01/10/06	01/10/06	EPA 300.0	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Reported: 01/13/06 12:33

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A05002-01) Water									
Calcium	444	1.00	mg/L	100	EA60609	01/06/06	01/06/06	EPA 6010B	
Magnesium	247	0.100	"	"	"		u	"	
Potassium	28. 7	0.500	"	10	"	*	n		
Sodium	584	1.00		100	и	u	"	Π	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Reported:

01/13/06 12:33

Organics by GC - Quality Control

Environmental Lab of Texas

	D!*	Reporting	T T 14	Spike	Source	8/DEC	%REC	DDD	RPD	Mator
Analyte	Kesult	Limit	Units	Level		MEC	Limits	KPD		INQUES
Batch EA60408 - EPA 5030C (GC)										
Blank (EA60408-BLK1)				Prepared: (01/04/06 A	nalyzed: 01	/09/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	b							
Ethylbenzene	ND	0.00100	4							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100	n							
Surrogate: a, a, a-Trifluorotoluene	34.9		ug/l	40.0		87.2	80-120		·····	,
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			
LCS (EA60408-BS1)				Prepared: (01/04/06 A	nalyzed: 01	/09/06			
Benzene	0.0528	0.00100	mg/L	0.0500		106	80-120			
Toluene	0.0586	0.00100	"	0.0500		117	80-120			
Ethylbenzene	0.0586	0.00100	π	0.0500		117	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0591	0.00100	u	0.0500		118	80-120			
Surrogate: a, a, a-Trifluorotoluene	41.3		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			
Calibration Check (EA60408-CCV1)				Prepared: 0	1/04/06 A	nalyzed: 01	/09/06			
Benzene	54.1		ug/l	50.0		108	80-120			
Toluene	59.8		"	50.0		120	80-120			
Ethylbenzene	59.5		"	50.0		119	80-120			
Xylene (p/m)	120		"	100		120	80-120			
Xylene (o)	57.0		"	50.0		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		"	40.0	· · · · · · · · · ·	100	80-120	<u>a</u>		
Surrogate: 4-Bromofluorobenzene	36.6		"	40.0		91.5	80-120			
Matrix Spike (EA60408-MS1)	Sou	ırce: 6A05002-	-01	Prepared: 0	1/04/06 Ar	nalyzed: 01	/09/06			
Benzene	0.0516	0.00100	mg/L	0.0500	ND	103	80-120			
Toluene	0.0572	0.00100	Ħ	0.0500	ND	114	80-120			
Ethylbenzene	0.0587	0.00100		0.0500	ND	117	80-120			
Xylene (p/m)	0.119	0.00100		0.100	ND	119	80-120			
Xylene (o)	0.0588	0.00100	11	0.0500	ND	118	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/l	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			

Environmental Lab of Texas

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Reported: 01/13/06 12:33

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA60408 - EPA 5030C (GC)										

Matrix Spike Dup (EA60408-MSD1)	Sou	Prepared: 0	1/04/06 A	nalyzed: 0					
Benzene	0.0525	0.00100	mg/L	0.0500	ND	105	80-120	1.92	20
Toluene	0.0575	0.00100	"	0.0500	ND	115	80-120	0.873	20
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120	1.72	20
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120	0.00	20
Xylene (0)	0.0590	0.00100	n	0.0500	ND	118	80-120	0.00	20
Surrogate: a, a, a-Trifluorotoluene	39.6		ug/l	40.0		99.0	80-120		<u>,</u>
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120		

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.		P	roject: Bl	DH-35 SWD	I				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: N	one Given					Reported:	
Hobbs NM, 88240		01/13/06 12:33								
Genera	l Chemistry Para	meters by	EPA /	Standard	I Metho	ds - Qua	lity Con	trol		
		Environm	nental]	Lab of Te	xas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA60605 - General Preparati	on (WetChem)									
Blank (EA60605-BLK1)				Prepared: (01/05/06 A	nalyzed: 01	/06/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EA60605-DUP1)	Sour	rce: 6A05002-	-01	Prepared: 01/05/06 Analyzed: 01/06/06						
Total Dissolved Solids	4130	5.00	mg/L		4290	·· · ·	· .	3.80	5	
Batch EA61009 - General Preparati	on (WetChem)									
Blank (EA61009-BLK1)				Prepared &	k Analyzed:	01/10/06				
Sulfate	ND	0.500	mg/L							

Chloride	ND	0.500	"						
LCS (EA61009-BS1)				Prepared & Anal	yzed: 01/10/06				
Sulfate	9.33		mg/L	10.0	93.3	80-120			
Chloride	11.3		"	10.0	113	80-120			
Calibration Check (EA61009-CCV1)				Prepared & Anal	yzed: 01/10/06				
Sulfate	9.50		mg/L	10.0	95.0	80-120		,	
Chloride	8.61		"	10.0	86.1	80-120			
Duplicate (EA61009-DUP1)	Sourc	e: 6A06009-	06	Prepared & Anal	yzed: 01/10/06				
Sulfate	552	10.0	mg/L	51	1		7.71	20	
Chloride	398	10.0	n	39	94		1.01	20	
Batch EA61216 - General Preparation (W	'etChem)								

Prepared & Analyzed: 01/12/06

Blank (EA61216-BLK1)

.

Total Alkalinity

2.00 mg/L

ND

Environmental Lab of Texas

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Reported:

01/13/06 12:33

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA61216 - General Preparatio	n (WetChem)									
LCS (EA61216-BS1)				Prepared &	z Analyzed:	01/12/06				
Bicarbonate Alkalinity	198	2.00	mg/L	200	······································	99.0	85-115			···, ···
Duplicate (EA61216-DUP1)	Source	e: 6A05002-	01	Prepared &	Analyzed:	01/12/06				
Total Alkalinity	109	2.00	mg/L		110			0.913	20	
Reference (EA61216-SRM1)				Prepared &	Analyzed:	01/12/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Reported: 01/13/06 12:33

Total Metals 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 FA60609 - 6010B/No Digestion										
Bawn Errovov - oor Oblino Digesuon										
Blank (EA60609-BLK1)				Prepared 8	k Analyzed:	01/06/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	n							
Calibration Check (EA60609-CCV1)				Prepared &	د Analyzed	01/06/06				
Calcium	2.06		mg/L	2.00		103	85-115			
Magnesium	2.05		"	2.00		102	85-115			
Potassium	1.87		"	2.00		93.5	85-115			
Sodium	1.84		"	2.00		92.0	85-115			
Duplicate (EA60609-DUP1)	Sou	rce: 5L30002-	01	Prepared &	t Analyzed:	01/06/06				
Calcium	32.6	0.100	mg/L		33.8		<u> </u>	3.61	20	
Magnesium	18.0	0.0100	"		18.6			3.28	20	
Potassium	4.45	0.500	"		4.58			2.88	20	
Sodium	34.8	0.100	II		34.1			2.03	20	

Environmental Lab of Texas

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Rice Op	erating Co.	Project: BD H-35 SWD	Fax: (505) 397-1471
122 W. 1	Faylor	Project Number: None Given	Reported:
Hobbs N	IM, 88240	Project Manager: Kristin Farris-Pope	01/13/06 12:33
•		Notes and Definitions	
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 Jut

Date:

1/13/2006

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Environmental Lab of Texas

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Environmental Lab of Texas

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

Client: <u>Rice Operating</u>
Date/Time: 01-04-06 @ 1700
Order #: 6405002
Initials:MM

Sample Receipt Checklist

(Yes) No	-2-0 C	not frozen
Pes No		
TES NO	Not present	
Tes No	Not present	
Pres No		
(Tes) No		1
(res) No	•	1
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	Yes No Yes No	Yes No -2-0 C Yes No Not present Yes No Not present Yes No Not present Yes No Not present Yes No Yes Yes

Other observations:

RICE Operating Company,

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7005 1820 0001 6804 7647

January 16, 2006

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o 882-97-1471 AN 2 0 2006 Oil Conservation Division Santa Fe, NM 87505 OF

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

RE: NOTIFICATION OF GROUNDWATER IMPACT BD H-35 Emergency Overflow Pit Unit 'H', Sec. 35, T22S, R37E NMOCD Case # 1R0216

Mr. Price:

Rice Operating Company (ROC) notifies the New Mexico Oil Conservation Division (OCD), Environmental Bureau of groundwater impact at the above-referenced site in accordance with NM Rule 116. The remediation of this site may be subject to NM Rule 19 procedures.

Groundwater impact at the BD H-35 pit site was discovered during delineation of the emergency overflow pit. These delineation activities were conducted in accordance with the NMOCD-approved work plan for this site and were supervised by the Arcadis G & M (Arcadis) consulting firm of Midland, Texas. A 2-inch monitoring well was installed near the southeast corner of the pit site on December 21, 2005 by White's Drilling of XXX, Texas as chloride impact was indicated by field tests. Groundwater was encountered at approximately 44 ft.

After appropriate development, the well was sampled pursuant to OCD and EPA guidelines by Arc Environmental Services (Arc) of Lovington on January 4, 2006. Environmental Lab of Texas performed the analysis on the samples. Notably, Chloride and Total Dissolved Solids exceed New Mexico Water Quality Control Commission standards. Hydrocarbon constituents (BTEX) were not detected. Arc Environmental will continue to sample the well on a quarterly basis throughout the 2006 year. Investigation of impacts at this site by Arcadis is ongoing.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of the pipelines, wells, or facilities. The BD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental remediation projects of this magnitude require System Partner AFE approval and work begins as funds are received.

Please accept this notification for the above-referenced site. Should you have any questions or concerns regarding this site, please do not hesitate to contact me.

RICE OPERATING COMPANY

Knistin Fairis Pope

Kristin Farris Pope Project Scientist

enclosures: water analysis, well log

cc: LBG, CDH, Arcadis, file, D. Sanchez (NMOCD)

Mr. Chris Williams NMOCD, District 1 Office 1625 N. French Drive Hobbs, NM 88240

Æ	Ø				_	_	_		W/F		-	WELL NO.
R	Ń	褶_							** L			MVV-1
ARC	CAE	DIS	1	004 N.	Big Sprir	ng St.	Suite 30	0, Midlan	id, TX 7970)1-3383 Tel:	432/687-5400 Fax: 432/687-5401	Page 1 of 1
PROJE CLIEN PROJE SITE LI DRILLI DRILLI SAMP DATE DRILLI LOGG FILE N	ICT N ICT N	NUMBE AME: NAME: TION: CO: METHO UN: R. J R. J R. J	R: N R B L DD: R D: S D: S Allen Lang W-1.c	A 10008 Lice Ope D H-35 ea Cour Vhite Dr Vhite Dr Lotary/A hovel 2/21/05	46.0001 Prating C nty, New rilling Cc ir 5 ELE ELE UN	ompar Mexico DATE VATIO VATIO IQUE N	COMPLE N (SURF. N (T.O.C NMBER:	TED:): .): 31-01	12/21/05	GROUT TYPE: SCREEN PACK: CASING TYPE: WELL SCREEN: PLUG BACK:	LEVEL: MEAS. PT.: T.O.C 7 7/8" "LETION: 8" Locking Steel Sleeve, 3 <u>TYPES</u> Portland Cement Bentonite Chips 8/16 Sand 4" Diameter Sch. 40 PVC Blank — 4" Diameter Sch. 40 PVC, 0.020" slo Bentonite Chips	DATE: TOTAL DEPTH: -55.0' "x3'x6" Conc. Slab <u>DEPTHS</u> -20.0' to Surface -32.0' to -20.0' -55.0' to -32.0' -34.0' to Surface ots -54.0' -54.0'
ДЕРТН	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	ЛТНОГОСУ			DESCRIPTION	WELL INSTALLATIC
-5		Shovel Shovel				0.000			SAND 1097 moist.	र 8/3 very pale brown, n	iedium to fine grained, subangular to subrounded, p	poorty sorted,
20		Shovel				0.000			SANDSTO cemented, v	VE 10YR 8/2 very pale b well sorted, dry, CALICH	rown, medium grained, subangular to well rounded E nodules.	weakiy
20		Shovel				0.000			SANDSTO	IE 10R 6/6 light red, fine	grained, angular, well sorted, soft, dry.	
35		Shovel	0.1			0.000			SANDSTON	IE 2.5Y 8/3 pale yellow,	fine grained, subangular to subrounded, well sorted	t, soft, dry.
to 1		Shovel				0.000			SANDSTON soft to argill: Note: Well b	IE 10R 6/6 light red, fine accous, moist. ecame wet at -45'; wate	to medium grained, well rounded to subrounded, w r level measured -41'. Some SAND interbeds 2.5Y	eli sorted,
45		Shovel				0.000			yellow, fine	grained, subangular to s	udrounded, well sorted.	
.50		Shovel										



Analytical Report

Prepared for:

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

Project: BD H-35 SWD Project Number: None Given Location: Lea County

Lab Order Number: 6A05002

Report Date: 01/13/06

Rice Operating Co.	Project: BD H-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	01/13/06 12:33
122 ' Hobl	W. Taylor bs NM, 88240	W. Taylor Project Number: None Given bs NM, 88240 Project Manager: Kristin Farris-Pope

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6A05002-01	Water	01/04/06 09:45	01/04/06 17:00

Rice Operating Co. Project: BD H-35 SWD Fax: (505) 39	0.51 200 1 401
	05) 397-1471
122 W. Taylor Project Number: None Given Reported	leported:
Hobbs NM, 88240 Project Manager: Kristin Farris-Pope 01/13/06 1	3/06 12:33

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A05002-01) Water									
Benzene	ND	0.00100	mg/L	1	EA60408	01/05/06	01/09/06	EPA 8021B	
Toluene	ND	0.00100	"	n	. "	n	"	85	
Ethylbenzene	ND	0.00100	11	n		n	n	N	
Xylene (p/m)	ND	0.00100	n		n	"	n	и	
Xylene (0)	ND	0.00100		"		n	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0%	80-12	0	"	"	"	"	· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene		<i>95.2</i> %	80-12	0	"	"	"	"	

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Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A05002-01) Water								· · · · · · · ·	
Total Alkalinity	110	2.00	mg/L	1	EA61216	01/12/06	01/12/06	EPA 310.1M	
Chloride	1880	25.0	n	50	EA61009	01/10/06	01/10/06	EPA 300.0	
Total Dissolved Solids	4290	5.00	"	1	EA60605	01/05/06	01/06/06	EPA 160.1	
Sulfate	383	25.0	"	50	EA61009	01/10/06	01/10/06	EPA 300.0	

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Rice Operating Co.	Project:	BD H-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	01/13/06 12:33

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (6A05002-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	444	1.00	mg/L	100	EA60609	01/06/06	01/06/06	EPA 6010B	
Magnesium	247	0.100	n	м	n	N	n	u	
Potassium	28.7	0.500		10	"	n	"	n	
Sodium	584	1.00	"	100	n	*	"	Ħ	

Environmental Lab of Texas

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01/13/06 12:33

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA60408 - EPA 5030C (GC)										
Blank (EA60408-BLK1)				Prepared: 0	1/04/06 A	nalyzed: 01	/09/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	n							
Ethylbenzene	ND	0.00100	R							
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	9							
Surrogate: a,a,a-Trifluorotoluene	34.9		ug/l	40.0		87.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			
LCS (EA60408-BS1)				Prepared: 0	1/04/06 Ar	nalyzed: 01	/09/06			
Benzene	0.0528	0.00100	mg/L	0.0500		106	80-120	·		· · · · · ·
Toluene	0.0586	0.00100	"	0.0500		117	80-120			
Ethylbenzene	0.0586	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0591	0.00100	"	0.0500		118	80-120			
Surrogate: a, a, a-Trifluorotoluene	41.3		ug/l	40.0	<u></u>	103	80-120			.
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			
Calibration Check (EA60408-CCV1)				Prepared: 0	1/04/06 Ar	nalyzed: 01	/09/06			
Benzene	54.1	· · · · · · · · · · · · · · · · · · ·	ug/l	50.0		108	80-120	· · · · · · · · · · · · · · · · · · ·		
Toluene	59.8		"	50.0		120	80-120			
Ethylbenzene	59.5		"	50.0		119	80-120			
Xylene (p/m)	120		"	100		120	80-120			
Xylene (0)	57.0		n	50,0		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		"	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	36.6		"	40.0		91.5	80-120			
Matrix Spike (EA60408-MS1)	Sou	rce: 6A05002-	01	Prepared: 0	1/04/06 An	alyzed: 01	/09/06			
Benzene	0.0516	0.00100	mg/L	0.0500	ND	103	80-120			
Toluene	0.0572	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0587	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0588	0.00100	"	0.0500	ND	118	80-120			
Surrogate: a, a, a-Trifluorotoluene	39.9		ug/l	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			

Environmental Lab of Texas

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	<u> </u>		
e Operating Co.	Project:	BD H-35 SWD	Fax: (505) 397-1471
2 W. Taylor	Project Number:	None Given	Reported:
bbs NM, 88240	Project Manager:	Kristin Farris-Pope	01/13/06 12:33
	e Operating Co. 2 W. Taylor bbs NM, 88240	e Operating Co. Project: 2 W. Taylor Project Number: bbs NM, 88240 Project Manager:	e Operating Co. Project: BD H-35 SWD 2 W. Taylor Project Number: None Given bbs NM, 88240 Project Manager: Kristin Farris-Pope

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Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EA60408 - EPA 5030C (GC)

Matrix Spike Dup (EA60408-MSD1)	Sou	rce: 6A05002-	-01	Prepared: 0	nalyzed: 0					
Benzene	0.0525	0.00100	mg/L	0.0500	ND	105	80-120	1.92	20	
Toluene	0.0575	0.00100	u	0.0500	ND	115	80-120	0.873	20	
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120	1.72	20	
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120	0.00	20	
Xylene (o)	0.0590	0.00100	"	0.0500	ND	118	80-120	0.00	20	
Surrogate: a, a, a-Trifluorotoluene	39.6		ug/l	40.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

Environmental Lab of Texas

Rice Operating Co.		Р	roject: Bl	DH-35 SWD					Fax: (505) 397-1471		
122 W. Taylor		Project Nu	mber: N	one Given					Reported:		
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris-P	ope				01/13/0	6 12:33	
General C	hemistry Para	meters by	EPA /	Standard	I Method	ls - Qua	lity Con	trol			
		Environn	nental l	Lab of Te	xas						
Analyte	Result	Reporting	Unite	Spike	Source	%REC	%REC	RPD	RPD Limit	Notes	
	rtout	Duilt	011163	Detel	Rosult		Dunics		Linut	110105	
Batch EA60605 - General Preparation ((WetChem)	· · · · · · · ·	···· · ·				<u></u>		_·		
Blank (EA60605-BLK1)				Prepared: (01/05/06 A	nalyzed: 01	/06/06				
Total Dissolved Solids	ND	5.00	mg/L								
Duplicate (EA60605-DUP1)	Sou	rce: 6A05002-	-01	Prepared: (01/05/06 A	nalyzed: 01	/06/06				
Fotal Dissolved Solids	4130	5.00	mg/L		4290	·		3.80	5		
Batch EA61009 - General Preparation ((WetChem)										
Blank (EA61009-BLK1)				Prepared &	Analyzed:	01/10/06					
Sulfate	ND	0.500	mg/L				· · · · ·				
Chloride	ND	0.500	n								
LCS (EA61009-BS1)				Prepared &	z Analyzed:	01/10/06					
Sulfate	9.33		mg/L	10.0		93.3	80-120				
Chloride	11.3		"	10.0		113	80-120				
Calibration Check (EA61009-CCV1)				Prepared &	Analyzed:	01/10/06					
Sulfate	9.50		mg/L	10.0		95.0	80-120				
Chloride	8.61		"	10.0		86.1	80-120				
Duplicate (EA61009-DUP1)	Sour	re: 6A06009-	06	Prepared &	Analyzed:	01/10/06					
Sulfate	552	10.0	mg/L		511		·	7.71	20		
Jhloride	398	10.0	"		394			1.01	20		
Batch EA61216 - General Preparation (WetChem)										
Blank (EA61216-BLK1)				Prepared &	Analyzed:	01/12/06					
fotal Alkalinity	ND	2.00	mg/L		_				········		

Environmental Lab of Texas

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Rice Operating Co.	Project:	BD H-35 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	01/13/06 12:33

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 EA61216 - General Preparatio	n (WetChem)									
LCS (EA61216-BS1)				Prepared 8	2 Analyzed:	01/12/06				
Bicarbonate Alkalinity	198	2.00	mg/L	200		99.0	85-115			
Duplicate (EA61216-DUP1)	Sour	ce: 6A05002-	-01	Prepared &	k Analyzed:	01/12/06				
Total Alkalinity	109	2.00	mg/L		110			0.913	20	
Reference (EA61216-SRM1)				Prepared &	Analyzed:	01/12/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Project: BD H-35 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

01/13/06 12:33

Total Metals 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 EA60609 - 6010B/No Digestion										
Blank (EA60609-BLK1)				Prepared &	k Analyzed:	01/06/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500								
Sodium	ND	0.0100	"							
Calibration Check (EA60609-CCV1)				Prepared &	k Analyzed:	01/06/06				
Calcium	2.06		mg/L	2.00		103	85-115			
Magnesium	2.05		"	2.00		102	85-115			
Potassium	1.87		"	2.00		93.5	85-115			
Sodium	1.84		"	2.00		92.0	85-115			
Duplicate (EA60609-DUP1)	Sou	rce: 5L30002-	-01	Prepared &	د Analyzed	01/06/06				
Calcium	32.6	0.100	mg/L		33.8			3.61	20	
Magnesium	18.0	0.0100	n		18.6			3.28	20	
Potassium	4.45	0.500	n		4.58			2.88	20	
Sodium	34.8	0.100	н		34.1			2.03	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Rice Op	perating Co.	Project:	BD H-35 SWD	Fax: (505) 397-1471
122 W.	Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240		Project Manager:	Kristin Farris-Pope	01/13/06 12:33
		Notes and De	finitions	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting limit	t		
NR	Not Reported			
dry	Sample results reported on a dry weight basis			
RPD	Relative Percent Difference			
LCS	Laboratory Control Spike			

6

- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Raland K Jut

Date:

1/13/2006

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 10 of 10

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713
ECORD AND ANAL YSIS REQUEST	Project Name: BD H-35 SWD	Project #:	Project Loc: Lea County	PO#					Captor (specify): TPH: 418.1 6015/M 1005 1006 Captors (Ca, Mg, Na, N) Antons (Ci, SO4, CO3, HCO3) SAR (FSP / CEC Modalise BTEX 80218/5030 BTEX 80218/5030 FOIables TO2B, Dissolved Solids TO2B, M. TO2B, M.	X X X					Rample Containers Intact? N Labels on container? (Custody Seale Containers (Coolet) Temperature I from Receive	Time Laboratory Comments:	111100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100 - 11100
CHAIN OF CUSTODY R	d@valomet.com				Fax No: (505) 397-1471	10 DSFA	5%	Preservative Matri	Date Sampled Time Sampled Nuc of Containers Huos Huos Huos Huos Huos Huos Huos Huo	1/4/2006 9:4/5 3 × 2 1 × ×					kpriceswd@valornet.com & mfranks@riceswd.cc	convertor lo marine 14/000	600 by ELOT (ULDY) 1 4 0 c
12600 West -20 East Phone: 432-563-1800 Odessa, Texas 79765 Fax: 432-563-1713	Project Manager: Kristin Farris Pope kpriceswo	company Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/state/Zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	Sampter Signature: ROZANNE Johnson (505) 631-93	Email: rozanne@valornet.com		LAB# (lab use only) FIELD CODE	Monitor Well # /					Special Instructions: PLEASE Email RESULTS TO:	Respringuestry 1 Date Time Rec Reception John 1/4/65 12:15	Hellinguaried by O V Date Time 184

Environmental Lab of Texas

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Sec. 16

Environmental Lab of Texas Variance / Corective Action Report – Same Log-In

Client: <u>Rice Operating</u>
Date/Time: 01-04-06 @ 1700
Order #: 6405002
Initials:TMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes) No	-Z-O C	noi frozen
Shipping container/cooler in good condition?	(Jes) No		
Custody Seals intact on shipping container/cooler?	TES NO	Not present	
Custody Seals intact on sample bottles?	(TES) NO	Not present	
Chain of custody present?	(TES) NO		
Sample Instructions complete on Chain of Custody?	(Tes) No		
Chain of Custody signed when relinquished and received?	(YES) NO	·	
Chain of custody agrees with sample label(s)	Tes No		
Container labels legible and intact?	Tes No		
Sample Matrix and properties same as on chain of custody?	(TES) No		
Samples in procer container/bottle?	(Yes) No	٩	
Samples properly preserved?	(res) No		
Sample bottles intact?	(Yes) No)
Preservations documented on Chain of Custody?	es) No		
Containers documented on Chain of Custody?	(Yes) No		
Sufficient sample amount for indicated test?	Tes No		
All samples received within sufficient hold time?	Tes No		}
VOC samples have zero headspace?	Xes) No	Nct Applicable	Ì

Other observations:

Price, Wayne, EMNRD

From: Price, Wayne, EMNRD

Sent: Thursday, December 01, 2005 4:00 PM

To: Carolyn Doran Haynes (riceswd@leaco.net); Sharon Hall (shall@arcadis-us.com)

Cc: Sanchez, Daniel J., EMNRD

Subject: BD H-35 Pit 1R0216

The OCD is in receipt of the August 09, 2004 investigation work plan. OCD approved the plan on November 09, 2004. There was some confusing as to whether this approval was a partial or full approval.

Please note OCD considered this the approval of the investigation plan. You are hereby authorized to continue the work requested.

Wayne Price Oil Conservation Div. 1220 S. Saint Francis Santa Fe New Mexico 87505

phone: 505-476-3487 fax: 505-476-3462

Price, Wayne

From: Sent: To: Cc: Subject: Hall, Sharon E. [Shall@arcadis-us.com] Friday, December 03, 2004 7:03 AM Price, Wayne Kristin Farris Pope (E-mail); Carolyn Doran Haynes (E-mail) RE: BD H-35 Pit closure



H-35 workplan.doc

Yes Wayne- it is Section 35. Attached is a corrected report. My apologies. Sharon

----Original Message----From: Price, Wayne [mailto:WPrice@state.nm.us] Sent: Thursday, December 02, 2004 4:10 PM To: Hall, Sharon E. Cc: Kristin Farris Pope (E-mail); Carolyn Doran Haynes (E-mail) Subject: BD H-35 Pit closure

The Arcadis Report shoes the section is 22. Is this correct? or shoulod it be 35?

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462 E-mail: WPRICE@state.nm.us

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the MessageLabs Email Security System.



Infrastructure, buildings, environment, communications

Wayne Price New Mexico Oil Conservation Division 1220 So. Saint Francis Drive Santa Fe, New Mexico 87505 Sent Certified Mail

Subject: Investigation Workplan Rice Operating Company Blinebry-Drinkard H-35 SWD Overflow Pit Site T22S, R37E, Section 35, Unit H Eunice, Lea County, New Mexico

Dear Mr. Price,

On behalf of Rice Operating Company (ROC), ARCADIS G&M respectfully submits this investigation workplan for the above-referenced site. A Form C-103 was completed for this site on April 2, 2004 and submitted to the New Mexico Oil Conservation Division (NMOCD). The form was a notice of intention to delineate and close the overflow pit.

Site History and Background

The site location contained an above ground redwood tank and an emergency overflow pit. The tank has been removed, and the pit is no longer in use. In February 2004, five trenches were excavated. Two excavations were located adjacent to the pit on the south side and three located adjacent to the pit on the east side. The trenches were excavated to a depth of 12 to 14 feet below ground surface (bgs). Soil samples were collected and analyzed in the field for chlorides using field adapted Method 9253. Chloride concentrations ranged from 99 to 3,426 milligrams per kilogram (mg/kg). Photo-ionization detector (PID) readings were relatively low, ranging from 0.3 to 2.3 units.

A Form C-103 was completed for this site on April 2, 2004 and submitted to the NMOCD. The notice to delineate and close the emergency overflow via soil borings in accordance with the NMOCD-approved "Closure Plan for Permitted Emergency Pits" (revised 2/23/2000) was given a NMOCD Site Assessment Score of 20.

Delineation activities were performed on June 1, 2004. Two boreholes were drilled (in the southwest and northeast corner of the pit) to a depth of 40 and 45 feet bgs respectively. Moisture was encountered at a depth of approximately 42 feet bgs.



Date: 9 August 2004

Contact: Sharon Hall

Phone: 432 687-5400

Email: shall@arcadis-us.com



Soil samples were collected and analyzed in the field for chlorides using field adapted Method 9253. Chloride concentrations ranged from 517 to 8,914 mg/kg. PID readings ranged from 1.9 to 8.8 units. Field analytical results are shown in Table 1.

Sample ID and Depth	PID Reading	Field Chloride	Laboratory
		(mg/kg)	Chloride (mg/kg)
Borehole 1 (SW) 1'	2	2,091	NA
Borehole 1 (SW) 2'	1.1	1,957	NA
Borehole 1 (SW) 3'	1.3	1,910	NA
Borehole 1 (SW) 4'	1.2	2,129	NA
Borehole 1 (SW) 10'	1.5	1,624	NA
Borehole 1 (SW) 15'	2.3	3,155	NA
Borehole 1 (SW) 20'	2.3	8,914	NA
Borehole 1 (SW) 25'	2.4	3,799	NA
Borehole 1 (SW) 30'	8.1	2,100	NA
Borehole 1 (SW) 35'	1.3	2,233	2,559
Borehole 1 (SW) 40'	3.2	517	976
Borehole 2 (NE) 1'	8.8	1,211	NA
Borehole 2 (NE) 5'	1.5	2,926	NA
Borehole 2 (NE) 10'	2.5	1,611	NA
Borehole 2 (NE) 15'	6.5	2,772	NA
Borehole 2 (NE) 25'	3.0	5,334	NA
Borehole 2 (NE) 30'	5.4	3,078	NA
Borehole 2 (NE) 35'	1.0	2,562	NA
Borehole 2 (NE) 40'	2	1,091	1,260

Table 1-Soil Field Analytical Results

NA= Not Analyzed

Three borehole soil samples were submitted for laboratory analysis for chlorides using standard method 4500CI"B. Two soil samples were submitted for analysis for gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method SW-846 8015 M. Laboratory analytical results are shown in Table 2.

Table 2-Soil Laboratory Analytical Results

Sample ID and Depth	GRO	DRO	Chlorides
Borehole 1 (SW) 35'bgs	NA	NA	2,559
Borehole 1 (SW) 40' bgs	<10.0	<10.0	976
Borehole 2 (NE) 40' bgs	<10.0	<10.0	1,260

NA= Not analyzed

Wayne Price August 9, 2004

Based on the results of the soil sampling analytical results, elevated chloride concentrations are present at the subject site. PID readings and analytical analysis indicate that hydrocarbon concentrations are not present at the site.

Proposed Investigation Workplan

A one-half mile water well inventory will be performed. The water well inventory will include a review of water well records listed on the New Mexico State Engineer Office and United States Geological Survey (USGS) websites and windmills indicated on applicable USGS topographic maps.

Depth to groundwater at the site is expected to be approximately 42 bgs. One monitoring well will be installed at the subject site at the former overflow pit location. The monitor well will be constructed, developed and sampled in accordance with Environmental Protection Agency and NMOCD standards. A groundwater sample will be collected and submitted for laboratory analysis for chlorides, BTEX and general chemistry.

Soil samples will be collected at regular intervals no greater than five feet, screened in the field using a PID and field tested for chlorides. Soil lithology and the presence of any observed staining or odor will be recorded. One sample, the sample collected at total depth of the boring, will be submitted laboratory analysis as confirmation of the field sampling.

If groundwater analytical results indicate that chloride and/or BTEX concentrations exceed New Mexico Water Quality Control Commission standards, additional monitoring wells may be installed as warranted by the results of the investigation. However, if existing monitoring and water wells are present near the site, the well construction is determined to be sufficient for representative sampling, and access to the wells can be obtained, ROC will include the wells in their sampling program and sample the existing wells in lieu of installing additional monitoring wells.

A report detailing the investigation activities and results will be submitted to the OCD. The report will include recommendations for further action if necessary or for closure of the site.

Very truly yours,

ARCADIS G&M, Inc.

Sharon E. Hall, Site Evaluation Department Manager

Wayne Price August 9, 2004

Copies:

Carolyn Haynes- Rice Operating Company Kristin Farris Pope- Rice Operating Company

Attachment:

Form C-103

Wayne Price August 9, 2004

*

.

Price, Wayne

From: Sent: To: Cc: Subject: Price, Wayne Thursday, December 02, 2004 3:10 PM Sharon Hall (E-mail) Kristin Farris Pope (E-mail); Carolyn Doran Haynes (E-mail) BD H-35 Pit closure

The Arcadis Report shows the section is 22. Is this correct? or should it be 35?

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462 E-mail: WPRICE@state.nm.us

Price, Wayne

From:	Price, Wayne
Sent:	Tuesday, November 09, 2004 9:30 AM
To:	'Carolyn Doran Haynes'; Price, Wayne
Cc:	'Kristin Farris'; 'Hall, Sharon E.'
Subject	RE: BD SWD H-35 Pit Closure

APPROVED!

Please be advised that NMOCD approval of this plan does not relieve (Rice Operating Company) of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Rice Operating Company) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

-----Original Message----- **From:** Carolyn Doran Haynes [mailto:cdhriceswd@leaco.net] **Sent:** Tuesday, November 09, 2004 9:28 AM **To:** 'Price, Wayne' **Cc:** 'Kristin Farris'; 'Hall, Sharon E.' **Subject:** BD SWD H-35 Pit Closure

Wayne,

Sharon Hall, with Arcadis G&M, has submitted the workplan for closing the emergency overflow pit at the BD SWD System H-35 Terminal Facility.

At this time, Rice Operating would like to begin some of the preliminary work at this site, work that will have to be done regardless of the workplan approval or conditional approval or revision. This work entails moving the electrical poles, preparing the site for the installation of the overflow tank, installation of the tank and excavation of the very highly impacted soils (TPH in excess of 10,000 ppm).

This site is located on land owned by Mrs. Chloe Sims. The lease is current. The landowner will be notified.

Rice is asking for your concurrence that this incidental work can proceed while the NMOCD contemplates the workplan proposal. Rice would really appreciate having the overflow tank installed before hard winter is upon us.

Thank you for this consideration.

Carolyn Doran Haynes Engineering Manager RICE Operating Company PH: 505-393-9174 FX: 505-397-1471

Page 1 of 1

Price, Wayne

From:	Price, Wayne
Sent:	Tuesday, November 09, 2004 9:30 AM
То:	'Carolyn Doran Haynes'; Price, Wayne
Cc:	'Kristin Farris'; 'Hall, Sharon E.'
Subject:	RE: BD SWD H-35 Pit Closure

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- To: 'Price, Wayne'
- Cc: 'Kristin Farris'; 'Hall, Sharon E.'

Subject: BD SWD H-35 Pit Closure

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Infrastructure, buildings, environment, communications

Wayne Price New Mexico Oil Conservation Division 1220 So. Saint Francis Drive Santa Fe, New Mexico 87505 Sent Certified Mail

Subject:

Investigation Workplan Rice Operating Company Blinebry-Drinkard H-35 SWD Overflow Pit Site T22S, R37E, Section 22, Unit H Eunice, Lea County, New Mexico

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Delineation activities were performed on June 1, 2004. Two boreholes were drilled (in the southwest and northeast corner of the pit) to a depth of 40 and 45 feet bgs respectively. Moisture was encountered at a depth of approximately 42 feet bgs.

ARCADIS G&M, Inc. 1004 N. Big Spring Street Suite 300 Midland Texas 79701 Tel 432.687.5400 Fax 432.687.5401 www.arcadis-us.com

Date: 9 August 2004

Contact: Sharon Hall

Phone: 432 687-5400

Email: shall@arcadis-us.com



Wayne Price August 9, 2004

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ARCADIS

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Table 2-Soil Laboratory Analytical Results

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NA= Not analyzed





Wayne Price August 9, 2004

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Very truly yours,

ARCADIS G&M, Inc.

Shann E. Hall

Sharon E. Hall, Site Evaluation Department Manager

Wayne Price August 9, 2004

Copies:

Carolyn Haynes- Rice Operating Company Kristin Farris Pope- Rice Operating Company

Attachment:

Form C-103

Submit 3 Copies To Appropriate District Office ' District 1	State of N State of N Minerals a	New Mex and Natur	cico al Resources		Form C-103 Revised June 10, 2003		
1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave. Artesia, NM 88210	OIL CONSERV	ATION	DIVISION	WELL API NO. 30-025-22797			
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South Santa Fe	St. Fran	cis Dr. 505	5. Indicate Type STATE	I FEE		
1220 S. St. Francis Dr., Santa Fe, NM 87505	, 1 (1)1 () /	(.	o. State Off & Ga	is Lease No.			
SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC	CES AND REPORTS ON ALS TO DRILL OR TO DEEP ATION FOR PERMIT" (FORM	WELLS EN OR PLU 1 C-101) FOI	G BACK TO A R SUCH	7. Lease Name o Blinebry Drinka	r Unit Agreement Name rd (BD) SWD System		
PROPOSALS.) 1. Type of Well: Oil Well Gas Well	Other SWD WELL			8. Well Number	H-35		
2. Name of Operator RICE OPE		9. OGRID Number					
3. Address of Operator 122 W. Ta	AYLOR, HOBBS, NM 88		10. Pool name or Wildcat SAN ANDRES				
4. Well Location							
Unit Letter H : Section 35	1872feet from the Township	NORT 22S	Hline and Range 37E	233feet from NMPM	n the <u>EAST</u> line <u>LEA</u> County		
	11. Elevation (Show wh	ether DR, 'GL; 353	<i>RKB, RT, GR, etc.)</i> 7 KB				
12. Check A NOTICE OF IN	ppropriate Box to Ind TENTION TO:	dicate Na	ature of Notice, SUB	Report or Other SEQUENT RE	PData PORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WOR	к <u> </u>			
	CHANGE PLANS		COMMENCE DRI		PLUG AND		
PULL OR ALTER CASING			CASING TEST AI				
OTHER: OVERFLOW PIT DELIN	EATION & CLOSURE	\boxtimes	OTHER:				

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Delineation and closure of emergency pit via soil bore(s) to begin on April 16, 2004. Work will be conducted according to the enclosed NMOCD-approved "Closure Plan for Permitted Emergency Pits" (revised 2/23/2000). All major events including boring and sampling will be coordinated to allow 48 hours notice to NMOCD.

Depth to groundwater is <50 ft. NMOCD Site Assessment Score = 20.

hereby certify that the information above is true and comp	plete to the best of m	y knowledge and belief.	
SIGNATURE <u>Anistin</u> Jamies	TITLE	Project Scientist	DATE <u>4-2-04</u>
Type or print name Kristin Farris	E-mail address:	enviro@leaco.net	Telephone No. (505) 393-9174
(This space for State use)			
APPPROVED BY Conditions of approval, if any:	TITLE		DATE

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

April 2, 2004

RECEIVED

Mr. Chris Williams New Mexico Energy, Minerals, & Natural Resources DepartmenOIL CONSERVATION Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, New Mexico 88240

RE: EMERGENCY OVERFLOW PIT DELINEATION/CLOSURE PERMIT NO. H-46 BD SWD H-35 Unit letter H, Sec. 35, T22S, R37E Lea County, New Mexico

Mr. Williams:

Rice Operating Company (ROC) takes this opportunity to notify the NMOCD of work to be performed at the emergency overflow pit at the BD Salt Water Disposal Well H-35, located in Unit Letter H, Section 35, T22S, R37E, Lea County, New Mexico. This facility is located on fee land owned by Cloe Sims.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The BD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Replacement/closure projects of this magnitude require System Partner AFE approval and work begins as funds are received.

The Project AFE for this work has been approved by the System Partners and work is tentatively scheduled for April 16, 2004 with delineation drilling at the pit. Work will be conducted using Risk-Based Corrective Action (RBCA) to evaluate the potential of any impact in the vadose zone to impair groundwater quality at this site.

The pit will be replace with a new fiberglass emergency overflow tank. All required documentation will be included in the Final Closure Report for the pit.





The enclosed C-103 form addresses the work to be performed at this site. ROC will schedule all major events with a 48-hour advance notice to the NMOCD. The Final Closure Report and Subsequent C-103 will follow at the end of this project.

Thank you for your consideration of this project.

RICE OPERATING COMPANY

Knissin Jonie

Kristin Farris Project Scientist

enclosures: C-103, pit closure plan, facility map, pit inventory form

cc: LBG, CDH, file Wayne Price NMOCD 1220 S. St. Francis Dr. Santa Fe, NM 87504

Submit 3 Copies To Appropriate District Office <u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	State of N Energy, Minerals a	New Mex and Natur	xico ral Resources	WELL API NO.	Form C- Revised June 10, 2 30-025-22797	103 2003
1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	1220 South Santa Fe,	cis Dr. 505	 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. 			
87505						
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAI DIFFERENT RESERVOIR. USE "APPLICAT	ES AND REPORTS ON LS TO DRILL OR TO DEEP TION FOR PERMIT" (FORM	WELLS EN OR PLU 1 C-101) FO	IG BACK TO A IR SUCH	7. Lease Name Blinebry Drinka	or Unit Agreement Nan ard (BD) SWD System	ne
PROPOSALS.)				8. Well Number	ſ	
1. Type of Well: Oil WellGas Well	Other SWD WELL				H-35	
2. Name of Operator				9. OGRID Nur	iber	
RICE OPER	RATING COMPANY					
3. Address of Operator	•			10. Pool name of	or Wildcat	
122 W. TAY	YLOR, HOBBS, NM 88	240			SAN ANDRE	ES
4. Well Location						
Unit Letter H :	_1872feet from the	NORT	"Hline and	_233feet fro	om theEAST	line
Section 35	Township	228	Range 37E	NMPM	LEA Co	unty
	11. Elevation (Show who 3525	ether DR, 'GL; 353	<i>RKB, RT, GR, etc.,</i> 7 KB			
12. Check Ap	propriate Box to Inc	licate Na	ature of Notice,	Report or Othe	r Data	
NOTICE OF INT	ENTION TO:		SUB	SEQUENT R	EPORT OF:	
	PLUG AND ABANDON		REMEDIAL WOR	К	ALTERING CASING	
	CHANGE PLANS		COMMENCE DR		PLUG AND ABANDONMENT	
PULL OR ALTER CASING	MULTIPLE COMPLETION		CASING TEST A CEMENT JOB	ND 🗌		
OTHER: OVERFLOW PIT DELINE	ATION & CLOSURE	\boxtimes	OTHER:			

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Delineation and closure of emergency pit via soil bore(s) to begin on April 16, 2004. Work will be conducted according to the enclosed NMOCD-approved "Closure Plan for Permitted Emergency Pits" (revised 2/23/2000). All major events including boring and sampling will be coordinated to allow 48 hours notice to NMOCD.

Depth to groundwater is <50 ft. NMOCD Site Assessment Score = 20.

I hereby certify that the information above is true and c	omplete to the best of r	ny knowledge and belief	
SIGNATURE Knistin Jamies	TITLE	Project Scientist	DATE 4-2-04
Type or print name Kristin Farris	E-mail address:	enviro@leaco.net	Telephone No. (505) 393-9174
(This space for State use)			
APPPROVED BY Conditions of approval, if any:	TITLE	. <u></u>	DATE

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Environmental Closure of Permitted Overflow Pits and Below-Grade Redwood Tanks

ROC was informed by the NMOCD that all emergency overflow pits and below-grade redwood tanks located in New Mexico would require bonding under NM Rule 711 unless action was taken to properly close these sites. ROC responded with generic work plans outlining the closure procedure that would be used at these sites. NMOCD approved these generic plans.

For closure of permitted below-grade tank sites and overflow pits in Texas, the procedure detailed in the RRC Pit Permit must be followed.

Landowners are notified that remediation/upgrade work is planned at the lease site.

All closure activities concerning closure of emergency overflow pits and below grade tanks are conducted pursuant to regulatory guidelines.

The Closure Plan for Below Grade Redwood Tanks and the Closure Plan for Permitted Emergency Pits detail the order of activities.



Closure Plan for Permitted Emergency Pits

- 1. Submit C-103 form to NMOCD along with the site-specific location, site assessment, work plan, time schedule, sampling and testing plan, etc., all pursuant to NMOCD guidelines.
- 2. Remove and properly dispose of visibly contaminated soil pursuant to NMOCD guidelines.
- 3. Procure soil samples from surface and 3' below excavation bottom and excavation sides.
 - A. If soil samples are < 100ppm TPH and < 250ppm Chlorides, proceed to Step 6.
 - B. If soil samples are > 100ppm THP or > 250ppm Chlorides, proceed to Step 4.
- 4. Delineate any portion of excavation that is > 100ppm TPH or > 250ppm Chlorides with a backhoe or soil boring machine, obtaining samples for field and lab analysis at 5' intervals.
 - A. When field analysis of bored-sample determines < 100ppm TPH and < 250ppm Cl, boring will be suspended pending laboratory analysis confirmation. Proceed to Step 5.
 - B. If these parameter levels are not identified, then boring and sampling will continue to ground water. Upon reaching groundwater, the borehole will be cased and developed. Ground water samples will be procured and tested for major cations and anions, TDS and BETX levels. If ground water is found to exceed the WQCC standards, NMOCD will be notified immediately and the closure plan will move into Rule 19 procedures.
- 5. Write AFE to System Partners as directed by results of delineation of redwood tank site and of emergency pit (if both are at facility). Await approval and funding for site closing
- 6. Remove impacted soil (as practical) to eliminate hot spots; dispose per NMOCD guidelines.
- 7. Procure random 5-point composite bottom sample and random 4-point composite side sample for laboratory TPH, Benzene, and BTEX testing.
 - A. If <100ppm TPH; BTEX, Benzene <10ppm; <250ppm Chlorides; proceed to Step 9.
 - B. If >100ppm TPH; BTEX, Benzene >10ppm; >250ppm Chlorides; in the vadose zone but not reaching groundwater, proceed to Step 8.
- 8. Evaluate site for risk assessment: delineate to assess depth and horizontal extent of impact corresponding to NMOCD guidelines for site assessment value; excavate bottom and sides as practical to minimize risk; install compacted clay liner to meet or exceed 95% of a Proctor Test ASTM-D-698 with permeability (hydraulic conductivity) equal or less than 1x10⁻⁷ cm/sec for containment/isolation of impact.
- 9. Discuss results/risk assessment with NMOCD for verbal approval to proceed with backfill.
- 10. Apply to NMOCD for closure of permitted emergency pit site per NMOCD guidelines and site results.



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Submit 4 Copies to Appropriate District Office

DISTRICT I P.O. Box 1980, Hobbs, NM \$8241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Permit No.

(For Division Use Only)

Form C-134

Aue. 1. 1965

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952 FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)

Operator Name: AGUA

Operator Address:PO	BOX 1	978	HOBBS	NEW.	MEXICO	88240					
Lease or Facility Name_	BLINE	BRY-	DRINKAF	D SWD	WELL NO	H-Location_	- <u></u>	н	- 35-	22 5	- 37
Size of pit or tank:11	5' X 5	5' X	8' OF	9012	BBLS.		Ut.	Ltr.	Sec.	Twp.	Rge

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

 \underline{X} The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.

THE PIT IS USED ONLY IN EMERGENCIES (IE: POWER FAILURES, MAJOR

PUMP REPAIRS, MAJOR WELL REMEDIAL WORK, ETC.)

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:

METHOD: VACUUM TRUCK

TIME: WITHIN 48 HOURS OF DISCOVERY

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.

Operator proposes the following alternate protective measures:

CERTIFICATION BY OPERATOR: knowledge and belief.	I hereby certify that	the information given above is true and complete to the best of my

Signature	K.w.allt	Title MANAGER	Date_	SEPTEMBER	15, 19
Printed Name_	R.W. ABBOTT	Telephone No	505 393-	6188	
			· · · · · · · · · · · · · · · · · · ·		
FOR OIL CONS	SERVATION DIVISION LISE				

Date Facility Inspected	Approved by Eddie W. Seay	
Inspected byEddie W. Seav	Oil & Gas Inspector	
Oil & Gas Inspector	Date OCT 2 1980	





OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 16, 1999

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P 410 425 207</u>

Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35-Ts22s-R37e Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated November 10, 1999 requesting closure for the above captioned facility. The NMOCD approves of Rice Operating Company's closure request.

Please be advised that NMOCD approval of this site does not relieve Rice Operating Company of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Rice Operating Company of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

UNITED

Sincerely Yours,

Wayne Price

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt Will show to whom the article was delivered and delivered.	e can return this xe does not cle number. nd the date	I also wish to re ing services (for 1. □ Addressed 2. □ Restricted	ceive the follow- an extra fee): 40 e's Address I Delivery
RINADDRESS completed	3. Article Addressed to: RICE OPERALING COMPANY 122 WEST TAYLOR HOBBS, NM 88240 Att: CAROLYN HAYNES	4a. Article Nu P 4/0 4b. Service T X Registered Express M Return Rec 7. Date of De	mber 425 207 ype lail lail liver/ <i>SIECH</i>	Far Certified □ Insured □ COD
Is your <u>RETU</u>	5. Received By: (Print Name) 0. G. Signature (Addressee or Gent) 0. Signature (Addressee or Gent) 0. Signature (Addressee or Gent) 0. Signature (Addressee or Gent) 0. Signature (Addressee or Gent)	8. Addressee fee is paid,	's Address (Only i	ic Beturn Beceint



RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 525

November 10, 1999

NOV | 2 1999 OIL COMPERVATION DE

Mr. Wayne Price State of NM Energy and Minerals Dept. Oil Conservation Division 2040 South Pacheco St. Santa Fe, NM 87505

Re: Aboveground Redwood Tank Removal, SWD H-35 Blinebry Drinkard Salt Water Disposal System NE/4, Section 35-Ts22s-R37e, Lea County, NM

Dear Mr. Price:

In response to your request of September 3, 1999, for further information concerning the H-35 aboveground redwood tank site closure submission, Rice Operating Company addresses each item as follows:

- 1. The vertical profile of the natural clay layer is three feet thick, as determined by a 6" boring drilled on March 6, 1999. This clay layer is directly beneath the area of impact of the redwood tank. No further delineation of this natural clay layer is planned at this time.
- 2. Groundwater at this site was estimated to be at 65'BGS due to three wells to the east of H-35 received from the State Engineer's Office and plotted on the topo map where the windmill sites are indicated, elevation approximately 3280'. Due to the H-35 site being approximately 16' higher in elevation, 3296', this difference was added to the average well depth of the wells (46', 48' and 54') to obtain an approximate groundwater depth of 65'. Because of the well indicated in your Sept 3 letter, which was not supplied to ROC by the State Engineer's Office, a search was conducted of the USGS water-well database (of which the state engineers office is a contributor). Of the three wells previously believed to be in Section 36, two are actually in Section 35, and another water well in Sec 35 has been identified. (From the Topo map, their elevation when plotted in Section 35 is estimated to be 3300' and their GW depths are 48', 54', 57.5' for an average of 53'.) In Sec 36, there have been 6 wells in the NW/4 (all in the draw area, about 3280' elevation)



The horizontal and vertical extent of the contamination impact was determined to be less than the NMOCD guidelines (for the headspace procedure) with the side composite sample of the open excavation. The sample was tested with a PID, on February 20, 1998 and found to be 89.1 ppm. On April 17, 1998, during your visit to the site with Mr. Wes Root, additional samples were collected. TPH results on the composite sample 4' BGS (at the bottom of the excavation) was <10 ppm. A headspace reading was recorded at the site and found to be <1 ppm on a sample pulled from an 11' deep trench, dug immediately prior to sampling.

Later, during a boring operating of March 6, 1999, a clay layer was found to exist 29-32' BGS. At 30'BGS, TPH results indicate 29 ppm and at 34'BGS, the TPH results were 19.8 ppm. OVM readings of samples gathered at 15', 20', 25', 30', 34' all indicated ≤ 1 ppm. Chlorides were tested at these depths and were at 111 ppm, clearly below the level to cause concern for groundwater at the site.

- 3. Existing contamination BGS is well within the NMOCD guidelines of <100 ppm TPH for groundwater at less than 50' depth, being <10 ppm TPH at 4'BGS and <20 ppm TPH at 34'BGS. The source of contamination at the site has been removed (redwood tank), thus eliminating a continual source of percolation moisture. Lea County, NM average yearly rainfall of 16" inches is not adequate to percolate contaminates through this clay layer 29 feet BGS, nor is it adequate to mobilize chloride contaminates residing 4-29' BGS to appreciably move laterally (over 1200') to the Monument Draw. Considering the pondevaporation rate is around 100" per year, and rainfall consistently ranges 11-16" per year, natural precipitation percolation amounts to a distinctly negative number. (These rainfall/evaporation numbers were researched through the USGS, the NM State Engineer's Office, and the API Brine Remediation Manual.)
- 4. Natural attenuation will reduce the hydrocarbon impact BGS over the foreseeable future. Chloride contaminates will remain in the 4-29'BGS area, but will not impact groundwater due to the natural clay barrier that is 20' above estimated groundwater depth and due to the removal of the continual source of percolation moisture.
- 5. Rice Operating Company has no justification to collect a water sample at a private windmill more than 1500 feet from the H-35 site, nor for the Blinebry Drinkard SWD System to pay for a water analysis not associated with the closure of this site. (There is not a down-gradient well or surface water source within 1000' of H-35.) Within that 1500 feet of distance, there are several other potential sources of impact, sources not associated with the H-35 site. The NMOCD site assessment specifications ask for identification of water-wells with 200 feet and all other water sources within 1000 feet. With the TPH levels far, far below 100 ppm (NMOCD's posted guideline for closure

based on <50' to groundwater), and chloride level at 111 ppm (no posted guideline for closure, and far below the WQCC limit for chloride in groundwater), and both of these low levels of impact at 20' above estimated ground water depth, there is no reason for ROC to suspect any ground water impact at this site.

ROC has discussed this September 3, 1999 NMOCD response with the major Blinebry Drinkard SWD System Partners. The System Partners agreed that further delineation of this site is not justified at this time. This facility still has in use an emergency overflow pit (clay lined) that is scheduled to be closed in 2001, after an overflow tank is installed. At that time, for the closure of a permitted emergency overflow pit, further delineation of the facility area may be justified, and will be assessed as necessary.

Rice Operating Company submits this additional information pursuant to NMOCD's request and petitions at this time for closure of the above ground redwood tank formerly located at this facility. The Pit Remediation and Closure form for the redwood tank accompanies this submission. No further work is scheduled to be performed at this site at this time.

If you have any questions, please call.

Carolyn Doran Hargnes

Carolyn Doran Haynes Operations Engineer

Enclosures: Pit Remediation and Closure Report NMOCD letter by Wayne Price dated September 3, 1999 Previously submitted closure plan and site data dated June 29, 1999

Cc: KH, LBG, file,
Ms. Donna Williams
State of NM Energy and Minerals Dept.
Oil Conservation Division
1625 French Drive
Hobbs, NM 88240

District I 1625 N. French Drive, Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos, Aztee, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit 1 copy to Appropriate District Office and 1 copy to Santa Fe Office

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PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>RICE OPERATING COMPANY</u> Telephone: 505-393-9174
Address: 122 West Taylor, Hobbs, NM 88240
Facility or: Blinebry Drinkard SWD System SWD Well Facility H-35
well Name
Location: Unit or Qtr/Qtr Sec Unit Letter H Sec 35 T 22S R 37E County LEA
Pit type: Separator Dehydrator Other Above Ground Redwood Tank
Land Type: BLMStateFee XOther
Pit Location Pit Dimensions: length width28' depth7'
(Attach diagram) Reference: wellhead <u>yes</u> other
Footage from reference: 50' North then 10' East to center of tank (diagram attached)
Direction from reference: Degrees East North
of West South
Depth to Ground Water Less than 50 feet (20 points)
(Vertical distance from50 feet to 99 feet(10 points)contaminants to seasonalGreater than 100 feet(0 points)20
high water elevation of ground water)
Wellhead Protection Area Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
1000 feet from all other water sources)
Distance to Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points) lakes ponds rivers streams creeks Greater than 1000 feet (10 points)
irrigation canals and ditches)
RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: February 20, 1998 Date Completed: November 10, 1999	
Remediation Method: Excavation Yes Approx. cubic yards 276	
sections) Landfarmed In-situ Bioremediation	
Other Natural Attenuation	
Remediation Location: Onsite Offsite Sundance Parabo, Eunice NM (ie.: landfarmed onsite, name and location of offsite facility)	
General Description of Remedial Action: Excavated the > 100 ppm TPH impacted soil and disposed of it at	
Sundance Parabo facility Backfilled excavation with clean caliche fill and graded site	
Sundance I alabo facility. Dacklined excavation with clean canche fill and graded site.	
Ground Water Encountered: No No Yes Depth Estimated to be 48-49'	
Final Pit Sample location Sample Results Noted on Attached Diagram	
(if multiple samples, attach comple samples, All Analytical Results Included in June 29, 1999 Submission, attached	
and diagrm of sample Sample depth Sides, Bottom, also a boring to 34' BGS	
Sample date Various Sample time	
Sample Results Benzene (ppm)	
Total BTEX (ppm)	1
Field headspace (ppm) Side: 89.1ppm Bottom: 8.5ppm at 4' BGS	
TPH Bottom: <10 ppm at 4' BGS	
Ground Water Sample: Yes NoNO (If yes, attach sample results)	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
DATE November 10, 1999 PRINTED NAME Carolyn Doran Haynes	
SIGNATURE Curry Dran (Largen TITLE Operations Engineer	
· · · · · · · · · · · · · · · · · · ·	

· · · ·	· · · · ·			D. 8.5ppm L. 2.10,0000	A. Bottom composite)	(4,865)	p10 < 1 ppin {	21		02	11	h2 -	- y 2 -	۷,۴	1.ck 30	- 2 -		ar .		
CROSSECTION		Courselle Pad (Tank hard)	(but cide commercies) (0-4' BGS)	P10 89.1 ppm				1-1 Cr 1766 pam @ 11' BGS	02m c 1 PPm	OND 21 PPM			OVM 21 PPM		DVM 41 PPM 29 PPM TPH WATURAL CLAY LAYER 3'TH					-
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<u>Circles I</u> - (505) 393-6161
Hobba NM 88241-1980
District 11 - (505) 748-1283
IIIS. Pers
Artenia, NM \$8210
District []] - (505) 334-01/8
000 Rio Bellos Roma
Notes IN 17110

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New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Originated 6/27/97

Submit Original Plus I Copy to Santa Fe

	PIT INVENTORY FORM
Operator:	RICE OPERATING COMPANY
Address:	122 WEST TAYLOR HOBBS, NEW MEXICO 88240
Phone Numb	(505) 393-9174
Previous Ope	rator(s): <u>Agua Operating</u>
Is the pit per	mitted: Yes 🔲 No 🔯
Unit Letter:	H Section: 35 Township: 22S Range: 37E
- County:	Lea County
ocation Nan	Blinebry Drinkard Salt Water Disposal Well H-35
Number of w	ells to the pit: System Terminal Tank (Varies)
lotal daily vo	lume (in barrels) to the pit: 1,300
L Type:	1-Below ground redwood terminal tank , Age to the fourth old), Fisse, Blowdown, Seperator, Dehydrator
At Type: Emergency, Prod	I-Berow ground redwood terminal tank , AU-/ I-Berow ground redwood terminal tank , AU-/ I-Berow Ground redwood terminal tank , AU-/ I-Berow Morkovez Reserve/Drilling(greater thas 6 months old). Fase. Blowdown, Seperator. Dehydrator. M/Tank Bottoms, Compressor. Figure, Washdown, or other)
It Type: Emergency: Proc line: Drip. BSELV What types of It are (wears)	1-Berow ground redwood terminnal tank , AUV (Cover to the second
It Type: Emergency, Proc inc Drip, BSELV Vhat types of It age (years)	1-Berow ground redwood terminnal tank , Roy Roy 100 Muctice. Workover Reserve/Drillingignesser thas 6 months old). Fiss. Blowdown. Seperator. Dehydrator W/Tank Bottoms. Compressor. Piging, Washdown. or other) (wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) :
It Type: Emergency: Proc are Drip. BSELV What types of It age (years) is the pit lines	1-Berow ground redwood terminal tank Motioner Reserve/Drillingignesser thas 6 months old). Fiss. Blowdown. Seperator. Dehydrator. W/Tank Bottoms. Compressor. Piging. Washdown. or other) (wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) : : 100 or unlined [] None Simulatio (Law). Redwood tank resting on concrete pad
At Type: Emergency, Proc lat Drip, BS&1 What types of "It age (years) is the pit lines ype of lines ()	1-Berow ground redwood terminnal tank More and Antiperator (Compressor Provide the second s
Plt Type: Emergency, Proc Line Drip, BS&1 What types of "It age (years) is the pit linex "ype of liner () i leak detection	1-Berow ground redwood terminnal tank More and American Separator. Dehydrator. More and American Separator. More and American Se
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Plt Type: Emergency, Proc Line Drip, BS&1 What types of "It age (years) is the pit linex "ype of liner () is leak detection is the pit netter it dimensions	1-below ground redwood terminal tank) Multiply redwood terminal tank (Multiply redwood terminal tank) Multiply redwood ter
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OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

September 3, 1999



<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. Z 357 870 142</u>

Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35-Ts22s-R37e Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated June 29, 1999 concerning the above captioned facility. ROC requested an approval to modify its original plan submitted on March 16, 1999 by utilizing an existing natural clay layer (lense) found at 29-32 feet below surface of the site instead of installing the proposed polyethylene liner over the contamination. ROC's report indicates groundwater below the site is at an estimated depth of 60-65 feet, according to the nearest water well identified by the State Engineers's office. The site location map shows there is a windmill located within 400-500 yards east-southeast of the site in Monument Draw, but does not identify if this is the referenced water well from the State Engineer's office. The report indicates that chloride levels as high as 3,750 ppm remain in the soils below the site and above the natural clay layer.

Please note that NMOCD's records indicate there is a windmill in close proximity located in Monument Draw in an area where the Ogallala has been eroded out and the depth to ground water is between 27-30 feet below ground surface (see state engineers record 22-37-35 134434) and was observed during a field trip to the site. The topo map supplied shows there is a natural surface dip toward the windmill located in the draw. NMOCD is concerned about contamination from the site migrating along the clay lense path and entering into Monument Draw and/or entering into groundwater.

Ms. Haynes Z 357 870 142 September 3, 1999 Page 2

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In order to properly evaluate ROC's modification request the NMOCD requires the following information:

- 1. Please provide the vertical and horizontal profile of the clay layer (lense) between the site and Monument Draw.
- 2. Please provide the horizontal extent of the contamination along the path of the clay lense. If the clay lense is dis-continues down gradient of the site, then provide the vertical extent of the contamination at that point.
- 3. Please demonstrate how ROC will prevent existing contamination found below the site from entering into surface or sub-surface waters in the foreseeable future.
- 3. Please demonstrate how natural attenuation will reduce the contaminants (i.e. chlorides) in the foreseeable future as proposed in Item 5. of letter dated 06/29/99.
- 3. Please collect a water sample from the closest down-gradient water source. Please analyze the sample for general chemistry using approved EPA methods.

Please provide the above information by November 15, 1999. If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayve (in

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs office

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RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 518

June 29, 1999

Mr. Wayne Price State of NM Energy and Minerals Dept. Oil Conservation Division 2040 South Pacheco St. Santa Fe, NM 87505

Re: Aboveground Redwood Tank Removal, SWD H-35 Blinebry Drinkard Salt Water Disposal System NE/4, Section 35-Ts22s-R37e, Lea County, NM

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Dear Mr. Price:

In response to your request of May 5, 1999, for further information concerning the H-35 aboveground redwood tank site, Rice Operating Company addresses each item as follows:

- 1. A topographic plot drawing of the site is attached. A vertical cross-section of the site is attached that denotes the results of chloride and TPH concentrations at the various sample sites. A calculated mass of in-situ contaminates is improbable to ascertain due to the various strata layers and their specific indeterminate densities. ROC is reluctant to stipulate any such mass quantity due to the obvious fallibility of delineation assumptions.
- 2. After in-depth discussions with various system partners and their environmental departments, it has been decided that at this time, no moisture barrier is needed because, as evidenced by the drilling log, there is an existing, natural clay layer at 29-32 feet BGS. This layer did indeed stop contamination migration, as illustrated by boring sample lab results. This is sufficient substantiation that any future downward or lateral natural moisture migration will be interrupted by this layer before the opportunity to impact ground water. Again the source of contamination has been removed, the TPH impacted soil has been removed, soil in-place tests reveal a level of <10ppm TPH and <100 ppm for PID reading, and 4+ feet of clean cover was used to backfill the excavated area.
- 3. Lateral moisture migration is addressed in #2 above.

ROC SWD Facility H-3



- 4. The moisture-barrier clay-layer and the in-situ salt contaminates above it will be protected by the four to seven feet of clean over-burden. There is no significant TPH contamination left in place and the salt impact will be significantly below plow-depth, and will not be disturbed by any normal surface activity practiced in the area. The landowner of record, Mrs. Chloe Simms, P. O. Box 922, Eunice, NM 88231, will be sent a copy of this closure plan request and associated plots, logs and laboratory results.
- 5. Rice Operating Company has no plans to monitor groundwater at this site because groundwater was not impacted. The source of contamination is removed, the three-feet-thick, natural clay-barrier is located at 29 32 feet BGS (33-36' above GW) and is positioned to prevent any future percolation of contaminates to groundwater. Natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.
- 6. Copies of disposal manifests are attached. All impacted soil that was removed from the site was hauled to the Sundance Parabo facility.
- 7. The soil boring was plugged with bentonite per Cooper and Harrison Drilling contractors. Chloride delineation was achieved at 30' (111ppm), approximately 35 feet above the estimated top of the water table, according to the State Engineer's Office data for this area. There is evidence of a three feet thick natural red-clay layer at 29-32' BGS.

Rice Operating Company submits this additional information pursuant to NMOCD's request and again petitions for closure plan approval for the redwood tank formerly located at this facility. If this closure plan is acceptable, then the Pit Remediation and Closure form will be completed and submitted. No further work will be performed at this site until the NMOCD responds to this request.

If you have any questions, please call.

Carolyn Doran Haynes

Carolyn Doran Haynes Operations Engineer

Enclosures:

Topographic plot plan of H-35 site Cross-sectional plot of H-35 site Boring Log and Associated Lab Analysis Misc. Sample Analysis (not included w/ previous submissions) Copy of July 8 Submission by F. Wesley Root Disposal Manifests

Cc: KH, LBG, file,
Ms. Donna Williams
State of NM Energy and Minerals Dept.
Oil Conservation Division
1625 French Drive
Hobbs, NM 88240

Mrs. Chloe Simms P. O. Box 922 Eunice, NM 88231







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Phone: Fax: ((505) 393-9174 505) 397-1471	SWD System Lea Co. New Mexico	N/A Screen Length: N/A	6" Drilling N Air Rot	International In	total c surfac bento
DEPTH (Feet)	SUBSUR	FACE LITHOLOGY	Sample Type	OVM (ppm)	REMARKS	Bo
0	Ground Surface Caliche backfill ma	iterial				
— 1 — 2 — 3	Red-bed backfill m (Light red clayey sl	aterial ightly calcareous sand)			◆ TPH < 10 ppm	
5 6 7	Light brown, tine-g	rained, calcareous sand (caliche)			Sample from bottom of excavation created during above-grade tank removal. Collected 3/12/98.	
8 9						
- 11	Light gray indurated	limestone	-		♦ Chloride – 1,766 ppm Sample from bottom of trench. Collected 6/16/98.	
- 14 15	Gray-brown fine-gra	ined calcareous sand (caliche)	Split-Spoon	<1	• Chloride – 3,500 ppm	
- 16						
- 18 - 19 - 20	Light gray slightly sa	ndy calcareous silt (caliche)	-			
- 21			Split-Spoon	<1	• Chloride – 3,750 ppm	
- 22 - 23 - - 24	Red-brown and white calcareous sand (calie	e mottled silty fine-grained che)	-			
- 26			Split-Spoon	<1	• Chloride – 2,500 ppm	
- 27 - 28 - 29		· · · · · · · · · · · · · · · · · · ·			• Chlorido - 240 mm	
— 30			C-14 C-+++		 Chloride – 240 ppm Chloride – 111 ppm 	
- 31	kea-brown silty calca	ireous clay	Shur-shoon	~1	◆ TPH – 29 ppm	
- 32					• Chloride – 60 ppm	
- 34 I	Light gray tine-graine	ed calcareous sand (caliche)	Split-Spoon	<1	 Chloride – 111 ppm TPH – 19.8 ppm 	
- 35 - 36	Total Depth of Boring	g @ 34 feet			· · · · · ·	
- 37 - 38 - 39		、			 Field Screen Laboratory Result 	
- 39					Bentonite Seal	

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PHONE (915) 673-7001 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 03/08/99 Reporting Date: 03/09/99 Project Number: NOT GIVEN Project Name: SWD H-35 Project Location: LEA CO. NM Sampling Date: 03/06/99 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

	IPH	Cl*
LAB NUMBER SAMPLE I	D (mg/Kg)	(mg/Kg)
ANALYSIS DATE:	03/08/99	03/08/99
H4050-1 B-1 (30-31)) 29.0	111
H4050-2 B-1 (33-34)	19.8	111
	· · · · · · · · · · · · · · · · · · ·	
Quality Control	244	1335
True Value QC	240	1319
% Recovery	102	101
Relative Percent Difference	3.2	1.5
·		

METHODS: EPA 600/4-79-02 418.1 325.3 *Analyses performed on 1:4 w:v aqueous extracts.



Date

H4050.XLS

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 hareunder by CardInal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

 ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2476 	Name: Aice Uperative CD, ANALYSIS REOUEST	allayer. H. Wesley Roof	122 West TAYLOR. Company:	40665 State: MM Zlp: 88240 Attn:	505-393-9174 Address:	505-397-1471 City:	Project Owner: State: Zin.	ame: 5wd H-35	ocation: Let Co. NM Fax #:	USE ONLY MATTRIX PRES. SAMPLING	ек колоне к		50-1 B-1(30-31') 6 1 2 V 0 0 4 2 0 0 10 10 10 10 10	-2 B-1 (33-341) 61 2 2 3-59 1130 2 2				Libitily and Damages. Cardnal's lability and clearly armedy for any claim ritaing whether based in contract or fort, shall be imiliad on the amount paid by the clearl for the Tornia and Conditions: Interest will be characted on a second on a se	set that Cardial be liable for including without limitation, business interruptions, loss of uses of uses of uses of uses and use of the rate of 24% per annum from the original data of involvest accounts more than account without limitation, business interruptions, loss of uses a limitation, business interruptions, loss of cardial of the performance of services hereunder by Cardia, Ingenders of whether such claims is based upon any of the above stated reasons or otherwise.	V / / / / / / / / / / / / / / / / / / /	utaley) or time 12:05 REMARKS:	Date: Received By: {Lab Staff)	id BV. Tciscle One)	UPS Bus - Other:	
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RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: 505-393-9174 Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: PUMp Station H-35

DATE: <u>Z-20-98</u>

SYSTEM: BLINEbry DRINKARd

LOCATION: <u>H-35-7225-R37E</u>

Sample ID	Date	Time	Headspace Reading (ppm)	Description
BH7'	6-16-98	9:35	× '	
BH9'	6-16-78	9:40	~	
BH10'	6-16-98	9:50	<1	
BH 11'	6-16-98	10320	<u>لا</u>	

COMMENTS: _

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.



RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: 505-393-9174 Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: Pump Station H-35

DATE: 2-20-98

SYSTEM: <u>BLinebry Drinkard</u>

LOCATION: <u>H-35-7225t-R37E</u>

Sample ID	Date	Time	Headspace Reading (ppm)	Description
13-i	2-20-78	14:00	20.3	
B-2	2-20-78	14:10	81.4	
BC	2-20-78	14:20	8.5	
5C	2-20-98	14:30	89.1	
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COMMENTS:

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.

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8'-10 6' 4' 2 MAP VIEW 5 1 B-2A 1 805 -Fot box 6 DEEP 5R B-IA CENTICA GOTTOM OF HOLE BOTTOM boundARY tion CROSSECTION oncrete Pad (TANK base) 0' O 2' 2' 4! 4' excavation Bottom of 6 6 8 × ..8' В 10'. SWD WELL H-35 BD SWD System H- 35-TZZ5-R37E

RICE Operating Company

122 West Taylor HOBBS, NEW MEXICO 88240 (505) 393-9174

July 8, 1998

Mr. Wayne Price State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35 of T22S R37E, Lea County, New Mexico

Mr. Price:

Rice Operating Company (ROC) has completed the removal of the redwood tank formerly located at the above-referenced facility. The work was performed during the course of normal maintenance operations when ROC replaced the tank with two above-ground fiberglass tanks. This report was prepared to document our actions as you requested during your site visit on April 17, 1998.

The redwood tank was used to store produced water prior to disposal by subsurface well injection. The 850 barrel tank was 28 feet in diameter and 8 feet tall. Once the tank had been removed from the location, the area was visually inspected for evidence of significantly contaminated soil and this material was dug out with a backhoe. The resulting excavation was approximately 36 feet in diameter and 4 feet deep. The excavated material, approximately 240 lcys (loose cubic yards), was staged within a bermed area located on the northwest corner of the site.

Samples of the material from the floor and sides of the excavation were collected to document the vertical extent of adverse impact, if present. The samples were field screened for volatile organic compounds (VOCs) with a HNU DL-101 photoionizer detector (PID) using the NMOCD (New Mexico Oil Conservation Division) headspace method. Field screening results recorded VOC levels of less than 1 ppm (part per million) in all samples. Since the PID results were well below 100 ppm (typical NMOCD recommended remediation action level), no samples were submitted for BTEX (benzene, toluene, ethylbenzene, and total xylenes) analysis.

The sample collected from the deepest point of the excavation was submitted to Cardinal Laboratories for total petroleum hydrocarbon (TPH) analysis using EPA Method 418.1. Sample Onsite-1 was obtained from a depth of 4 feet below ground surface and recorded a TPH level of less than 10 ppm. The PID and TPH results confirmed our original estimate that we had delineated and removed any hydrocarbon-impacted soils during excavation.

Eight random samples (ES-1 through ES-8) were collected from the staged material to establish baseline conditions and determine treatment/disposal options. The samples were field screened for VOCs with a PID using the NMOCD headspace method. The PID results ranged from 25 ppm to 230 ppm with the calculated average for the material equal to 124 ppm.

Since one of the treatment options we were evaluating was to landfarm the material on-site, three of the random samples (ES-3, ES-5, and ES-8) were submitted to Cardinal Laboratories for chloride analysis. Samples ES-3, ES-5, and ES-8 recorded chloride levels of 4,960 ppm, 4,150 ppm, and 4,960 ppm, respectively.

In addition, a sample was collected from the center of the excavation at a depth of 7 feet below ground surface and submitted for chloride analysis to document soil concentrations. Sample Onsite-2 recorded a chloride level of 2,600 ppm and a PID reading of less than 1 ppm.

In order to develop a vertical profile of chloride levels, a trench was dug in the bottom of the excavation using a backhoe. Work was stopped when indurated caliche was encountered at a depth of 11 feet below ground surface. A soil sample was collected at this point for headspace screening and chloride analysis. Sample BH-11 recorded a chloride level of 1,766 ppm and a PID reading of less than 1 ppm.

Due to the limited surface area available, treatment options such as landfarming or blending the impacted soil with clean dirt were determined to be uneconomical solutions for the site. The most practical method to clean up the site was to haul the impacted material to a NMOCD permitted facility for disposal and backfill the excavation with select material purchased from a commercial pit.

A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc.. The former tank location was backfilled with select material and the ground surface contoured to match the existing location pad.

Summary

- 1. The source of soil contamination was the redwood tank and this source has been eliminated.
- The maximum vertical extent of hydrocarbon-impact was 4 feet below ground surface. In-place soil below this depth recorded PID readings less than 1 ppm and TPH levels less than 10 ppm. The impacted soil was removed during the excavation of all significantly contaminated soil based on visual identification.
- 3. Chloride levels decreased rapidly with depth from approximately 4,700 ppm in the excavated soil to less than 1,800 ppm at a depth of 11 feet below ground surface.
- 4. A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.
- 5. The excavation was backfilled with select material and the former tank location was shaped to grade.

If you have any questions please feel free to call.

Sincerely,

7. Wesley Root

F. Wesley Root Projects Manager

Enclosures: Laboratory Analytical Results Chains-of-Custody

cc. KH, JM, File



PHONE (915) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 112 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

DECENTEN
MAR 2 6 1998
RICE OPERATING
Line is the service BBS, NIZ were all south

Receiving Date: 03/19/98 Reporting Date: 03/24/98 Project Number: NOT GIVEN Project Name: B.D. REDWOOD Project Location: SEC 35-22-37 Analysis Date: 03/24/98 Sampling Date: 03/12/98 Sample Type: SOIL Sample Condition: COOL, INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID

TPH (mg/Kg)

H3517-1	ON SITE 1		<10
· · · · · · · · · · · · · · · · · · ·		·	
·	· · · · · · · · · · · · · · · · · · ·		····
	· · · · · · · · · · · · · · · · · · ·		
Quality Control			194
True Value QC			200
% Recovery			97.0
Relative Percent D	ifference		2.1

METHOD: EPA 418.1, 3510, 3540, or 3550; Infrared Spectroscopy

& Couchy

PLEASESSOF bigbitity 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 mose 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.

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	st Marland, Hobbs, NM 88240 993-2326 Fax (505) 393-2476	1	BILL TO PO#:	Company: SAINE	Attn:	Address:	City:	State: Zlp:	Phone #:	Fax #:	PRES. SAMPLING	н Н ССЕ / СООГ ИНЕК : ИСПD: ИСПD: ИСПD: ИСПD:	3-12-98/10:1911				d in contract or tori, shall be kinited to the amount peid by the c	n writing and received by Cardnal within 30 days after completi emuptions, loss of use, or loss of profils incurred by client, its received intim is bread noon any of the above and stated	Phone Result Fax Result REMARKS	A DAM REG	ory CHECKED BY: (Initials)	jes to 915-673-7020.
	NAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 Ea (915) 673-7001 Fax (915) 673-7020 (505) 3	JCE OPENANY 5	John A. Moody JA	2 cu TRYLIR'	5 State/XM ZIp: 882 40	3-9174	1671-0	Project Owner:	3.D. REDWOOD	SEC 35-22-37	MATRIX	Sample I.D. F.OMP. F.ONTERS F.	ON SITE 1 X				agee. Cardinale lability and clerit exchanive remedy for any claim antaing whether based	s for negopence and any other cause what soever shall be deemed walved unless made if be field for includental or consequential dimenses, includent Winhoud Hanklion, business in it of or related to the performance of services harmonder by Carrieria in anothere of weathere	ad: / Date: 9-98 Received By:	Parts: 10 Parts: 10 Finde: 11	Lircle One) Cool Untact Cool Untact Us - Other: Cool Vo No	not accept verbal changes. Please fax written chang
R	ARDI	Company Name: R	Project Manager:	Address: 122	City: 14 666	Phone #: 273	Fax #: 39	Project #:	Project Name:	Project Location:	FOR LAB USE ONLY	LAB I.D.	H3517-1				PLEASE NOTE: LIADRY and Dame	analyses. Al ciaims including those service. In no every shall Cardnal t amilates to successors-raticing out o	Sampler Religioushe	Relinquished By:	Delivered Bv: (C Sampler - UPS - Bu	† Cardinal can



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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

SAMPLE ID

CL (mg/Kg)

4500 Cl⁻ B

H3597-1 ON SITE 2	2600
· · · · · · · · · · · · · · · · · · ·	
Quality Control	476
True Value QC	500
% Recovery	95.0
Relative Percent Difference	0.8

1998 RICE OPERATING HOBBS, NM

METHOD: Std. Methods

NOTE: Analysis performed on an aqueous extract.

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HAIN-OF-CUSTODY AND ANALYSIS REQUEST	• Page of	ANALYSIS=REOURCT															for the Terrus and Conditions: interest will be charged on all accounts more than the applicable 30 days past due at the rate of 24% per annum from the original date or involce, and thes.	Mae. Yes D No Additional Fax #: Yes C No		•			
<u>5</u>	st Marland, Hobbs, NM 88240 93-2326 Fax (505) 393-2476		BILL TO PO #:	company: SAME	Attn:	Address:	City:	State: ZIp: 0	Phone #:	Fax #:	PRES. SAMPLING	лиек: СКСьсіде Ва Постос СКСьсіде Ва ССС ССС ССС ССС ССС ССС ССС ССС ССС	X 123-28 3:0011 X				In contract or lott, what be initiad to the amount paid by the client withing and received by Candnai within 30 days after completion of medions, loss of use, or loss of profils incurred by client, its subsi	uch taim is based upon any of the above stated reasons or athe Phone Result □ Fax Result: X	REMARKS:	aly Staff)	n CHECKED BY: (Initials)		es to 915-673-7020.
NAL LABORATORIES. INC.	2111 Beechwood, Abilene, TX 79603 101 Eas (915) 673-7001 Fax (915) 673-7020 (505) 3	CLE OPENATING	Jehn'L. Moody 32	W TAYLOR '	S State:KMZIp: \$9240	3-9174	1471	35 Project Owner: 73.0,	REDWOOD REMOVAL	H-35-22-3?	MATRIX	Сатороворовороворовороворовороворовороворо	ON SITE 2 X				ipes. Cardnafa labitity sind client's exclusive remacy for any claim arising whether based for negligence and sny other cause whatscever shall be deemed walved unless made in v so labite for incidental or consequential clamages, including without limitation, business inte	of or related to the performance of services homomore by Cardons, regarders of whether of the Large to the BV:	Time: 9.50 M	Time: Received By: AL	ircle One) sample Condition	ls - Omer:	oot accept verbal changes. Please fax written change
ARDI		Company Name: /	Project Manager:	Address: /22	city: 14066	Phone #: 39	Fax#: 397-	Project #: H~3	Project Name:	Project Location:	FOR LAB USE ONLY	LAB I.D.	H3597-1				PLEASE NOTE: Lability and Dama analyses. At claims including those service. In no event shall Cardnel b	Sampler Relinguishe	Caller 1, 111	vellitudustled by.	Delivered By: (Ci	oampier - uro - bu	† Cardinal cann

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Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

Cl⁻⁻ (mg/Kg)

4500 CI B

4960
476
500
95.0
0.8

1998 9 RICE OPERATING HOBES, NM

NOTE: Analysis performed on an aqueous extract.

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	2111 Beechwood, Abilene, TX 79603 101 East Mariand, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 303 3236 Fax (505) 303 3236	AKUINAL LABORA I ORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Mariand, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: パレア の 能の イアバン の	AKUINAL LABORA I ORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: パノCE の だん A 77 X G lect Manager: フ _ŵ / カ ⁻ /, <i>M</i> ₀ <i>ø c y 3 x y y y y y y y y y y</i>	AKUINAL LABORA I ORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: 内にたのイアアから lect Manager: フェクカ 人、州のの化ソコア Iress: ノス じ アオソよのR Iress: ノス じ アオソよのR	AKUINAL LABORA I OKIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: 内にを の 能化 ATTX 5 npany Name: カーム、 M の の 化 YTX 5 nect Manager: つ い ト M の の N N N N N N N N N N N N N N N N N	AKUINAL LABOKAI OKIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: $R/IC = op(E/AA T/NC)$ Rect Manager: $\mathcal{O}_{ob}/A_n / A_i$, $\mathcal{M}_{ood}U \circ \mathcal{P}_i$ Ject Manager: $\mathcal{O}_{ob}/A_n / A_i$, $\mathcal{M}_{ood}U \circ \mathcal{P}_i$ Iress: $1/2 \mathcal{L}_{ob}/(D_i^c)$ State: M/Z in: \mathcal{O}_{ib}/A_i $\mathcal{O}_{ib}/A_i / \mathcal{O}_i$ Attn: $\mathcal{O}_{ib}/A_i / \mathcal{O}_i$ $\mathcal{O}_{ib}/A_i / \mathcal{O}_i$	ArtUINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 npany Name: $R_{1/C} \in op f(AATTNeS)$ (915) 673-7001 Fax (915) 673-7020 (505) 393-2376 npany Name: $R_{1/C} \in op f(AATTNeS)$ Rect Manager: $7oh A$, $Moody 3P$ RML TO PO #: Rect Manager: $7oh A$, $Moody 3P$ Rest: $132 b tr 7N e S Poh E S Poh $	AKUINAL LABORA I OKIES, INC.2111 Beechwood, Abilene, TX 79603101 East Marland, Hobbs, NM 88240(915) 673-7001 Fax (915) 673-7020(505) 393-2326 Fax (505) 393-2476npany Name: $\beta_1(\mathcal{E} \circ \rho \hat{\mathcal{E}} \cap A, T/X \mathcal{E})$ Rect Manager: $\Im \circ h \cap A, M \circ \sigma d \vee \mathcal{I} \wedge$ Rect Manager: $\Im \circ h \cap A, M \circ \sigma d \vee \mathcal{I} \wedge$ Ress: $1/22$ UUTAYLooR $\mathbb{R}ILLTO$ Pommark: $\Im \circ f \cap A, M \circ \sigma d \vee \mathcal{I} \wedge \mathcal{I} $	AKUINAL LABORAT ORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Martand, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 101 East Martand, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 The manager: フェカカ パ、 Moody コテ Fet Manager: フェカカ パ、 Moody コテ Firess: / JZ ひ 779 火ム のR Firess: / JZ ひ 779 Firess: / JZ	AKUINAL LABORAI ORIES, INC.2111 Beechwood, Abilene, TX 79603101 East Marland, Hobbs, NM 882402111 Beechwood, Abilene, TX 79603101 East Marland, Hobbs, NM 88240(915) 673-7001 Fax (915) 673-7020(505) 393-2376Amager: $(915) 673-7001$ (505) 393-2326 Fax (505) 393-2476Antal YSISRechwood, Abilene, TX 79603 $(915) 673-7020$ (505) 393-2476 $(915) 673-7020$ Fet Manager: $O_{o}h_{1}$ Amager: $O_{o}h_{1}$ $Ander:(70 + 1)Pode(70 + 1)And ress:(27 + 1)(15)(21)(16)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(16)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(18)(17)(18)(17)(18)(17)(18)$	Arcuinval_Labored IORIES, INC. 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2376 (915) 673-7020 (505) 393-2376 (915) 673-7020 (505) 393-2376 (915) 673-7020 (505) 393-2376 (915) 673-7020 (505) 393-2376 (915) 673-7020 (505) 393-2376 (915) 779 (915) 673-7020 (505) 393-2376 (912) 700 (915) 779 (912) 79 (912) 7 (912) 7	Compare: Arthonome Laborery IONLES, INC. 2111 Beechwood, Abilene, 1779603 010 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, 1779603 010 East Marland, Hobbs, NM 88240 1015) 673-7020 (656) 393-2376 Fax (566) 393-2476 part Varme: <i>A</i> 1CE のFCAATTXX5 eet Manager: <i>De/An A</i> , <i>M/o ed/u DA</i> ,	Rate Allocat DNLES, INC. 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М. Али Калада, Полак Калада, Полак (аб) 333,210 Паяк (аб) 673,700 Гах (Малада, По Екк (Малада, Полак (аб) 333,210 При Мат. П. С. С. С. С. С. С. С. С. С. С. С. С. С.	Participant Part	2.111 Ванелиона Аллина, 175, 00.2. 2.111 Ванелиона Аллина, 175, 00.2. Partyle - of a state of a	Полнанция Landon Man, N77800 Полнанция Landon Man, N77800 Полнанция Landon Man, N77800 Полнанция Landon Man, N77800 Полнанция Landon Man, N77800 Полнанция Landon Man, M77800 Полнанция Landon Man, M778000 Полнанция Landon Man, M7780000 Полнанция Landon Man, M7780000	Полнанция и издализация и правидания и правидити правиди правидити и правидани и правидани и правидания и прави	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

CI⁻ (mg/Kg)

4500 CI B

H3598-1 ES-5	4150
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·	
Quality Control	470
True Value QC	500
% Recovery	95.0
Relative Percent Difference	0.8
· · · · · · · · · · · · · · · · · · ·	

SAMPLE ID



NOTE: Analysis performed on an aqueous extract.

A Costh

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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. I have service in the service service services have been and the service of the service in the service of use of uses of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hareunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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STODY AND ANALYSIS REQUEST	ANALYSIS REQUEST									· · · · · · · · · · · · · · · · · · ·				Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per enxum from the original date of invoice, and all eosts of checkelone, hickdana attermark frave	ional Fax #;			
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ast Marland, Hobb 393-2326 Fax (505)	BHTTO	Company: < A	Attn:	Address:	City:	State: Z	Phone #:	Fax #:	PRES. SAN	отнея : соог отнея : отнея : отнея :	-12-11 $-12-11$			ied in contract or tort, shall be imiter in writing and received by Carcinal ' interruptions, loss of use, or loss of p	her such claim is based upon any of	(Lab Staff)	tion CHECKED BY: (Initials)	lo Iges to 915-673-7020.
<i>RATORIES, INC.</i> od, Abilene, TX 79603 101 E 001 Fax (915) 673-7020 (505)	Mandu TD	oR	e:NMZip: 88240			et Owner: $B, 0, 5 \omega O$	REMOUAL	-3>	MATRIX	C)RAB OR (C)OMP CONTAINERS CONTAINERS CONTOWATER MASTEWATER SOIL JIL SUIL	5 < # 0 2 9 0 0			Beri's exclusive remedy for any claim anising whether ha r ceuse whatscever that be doemed walved unless made equated id marger, including without initiation, business for of enclose homewhere the	Date: Date: Received By:	Date: Received By/	Sample Condi	□ No □` N changes. Please fax written char
ARDINAL LABO 2111 Beechwo (915) 673-70	ager: John L.	122 W 7442	e 665 Stat	393-9174	397-1471	H-35 Proje	e: REDWOOd	ntlon: H-35-22	SONLY	D. Sample	1 ES-			Jilly and Damages. Cardnafs Isbilly and o nchudng those for neptigence and any other anal Cardnat be Itable for incidental or com na artisting out of or related to the overforment	Inguished: Miler Li L	I BV:	Bv: (Circle One) PS - Bus - Other:	Inal cannot accept verbal
Ø	Company Na Project Mana	Address:	city: /7	Phone #:	Fax #:	Project #:	Project Nam	Project Loca	FOR LAB USI	LAB I.	H3598-			PLEASE NOTE: Ua analysoo Al claims service. In no ovent affillates or successo	Sampler Re	Relinquisher	Delivered Sampler - U	† Card

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PHONE (915) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

CI (mg/Kg)

4500 CI B

H3600-1	ES-8	4960
<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Quality Control		476
True Value QC	· · · · · · · · · · · · · · · · · · ·	500
% Recovery		95.0
Relative Percent D	Difference	0.8



NOTE: Analysis performed on an aqueous extract.

Date

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. The botten state 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.

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ORIES INC	vilene, TX 79603 101 Eas x (915) 673-7020 (505) 3	NG	44 JR		ZIP: \$8240		0	Her: B.D. Swill &	MOUAL		MATRIX	G)RAB OR (C)OMP. CONTRINERS ROUNDWATER VASTEWATER SOIL SUL LUDGE						sive remedy for any claim actions whether have d	tsoever shall be deemed waived unless made in v images, including without firstation, business inter	es heraurder by Cardnal, regardess of whether	3: GUT- 6- 2	Regelved BV: UK	a de ce	Cool Intact	es. Please fax written change
UNAL LABORAT	2111 Beechwood, Ab (915) 673-7001 Fa	BICE OPENATI	John K. Moou	W MAYLOR	25 State: MM:	¥ 3 - 9174	- 1471	35 Project Own	REDWOOd RE	H-35-22-3		Sample I.D.	ES-8					unages. Cardnafs fability and client's exclu	ise for hegigence and any other cause wha al be liable for incidental or consequental da	Jed: / Derformance of servic	time Time	Date	Time	Circle One) 3us - Other:	not accept verbal change
ARD		Company Name:	Project Manager:	Address: /22	City: Helol	Phone #: 3 ^c	Fax#: 397	Project #: H/~	Project Name:	Project Location:	FOR LAB USE ONLY	LAB I.D.	K 3600-1					PLEASE NOTE: UEMINY and Da.	analyses. At claims including the service. In no event shall Condru	Sampler Rellinguist	John Hole	Relinquished By:		Delivered By: (i Sampler - UPS - E	† Cardinal car



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: F. WESLEY ROOT 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 06/16/98 Reporting Date: 06/16/98 Project Number: H-35 Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 06/16/98 Sampling Date: 06/16/98 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

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LAB NUMBER	SAMPLE ID	(mg/Kg)
H3690-2	BH 11	1766
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Overlity Control		1004
True Value OC		1355
% Recovery		98.4
Relative Percent I	Difference	1.6



METHOD: Std. Methods 4500 CI[®]B

NOTE: Analysis performed on an aqueous extract.

Gayle A. Potter, Chemist

06/17/98

PLEACE Contract or tort, shall be limited to the amount paid by client is 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.

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† Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.

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White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95	DRIVER: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. : LYVARD < []	[] Lank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Completion Fluids	CHARGE TO: Ramiter Rich	DATE: 6-22-58 VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY:	LEASE NAME: Binchey down land #3 F	LEASE OPERATOR/SHIPPER/COMPANY:	(505) 394-2511
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	White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95	PRIVER: (SIGNATURE)	Survey SWILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. : XI YARD 2 : []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: Carry inc. 7	DATE: 6-27- SP- VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY:	LEASE NAME: BINCESS H35	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 13962 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	
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UHAVAAVASHOD # 2576	White-Sundance Canary-Sundance Actl Revised 12/27/95	DRIVER: SIGNATURE	THIS WILL CERTIFY that Statement at the above descr will certify that no additiona without incident.	ALSO AS A CONDITION TO SI THIS JOB TICKET, TRANSPORT OPERATOR/SHIPPER TO TRANS FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDAY JOB TICKET, OPERATOR/SHIPPI HEREWITH IS MATERIAL EXEM AMENDED FROM TIME TO TIM AND REGULATIONS RELATED PRODUCED WATERS, AND OTF PRODUCED WATERS, AND OTF PRODUCTION OF CRUDE OIL C	VOLUME OF MATERIAL	[] Production Water [] Tank Bottoms -{"TOther Material: Description:/yd/		CHARGE TO:	DATE: 6-27-58	TRANSPORTER COMPAN	LEASE NAME:	LEASE OPERATOR/SHIP	C C C C C C C C C C C C C C C C C C C	
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(111) 12576	White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	PHIVER UUM SUGATURE	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter ment at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DERLLING FLUIDS. PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: [] YARD /2 : []	Image: Solution Water [] Drilling Fluids [] Completion Fluids Image: Solution Water [] Contaminated soll [] C-117 No.: [] Other Material: [] BS&W Content: []	TYPE OF MATERIAL	CHARGE TO: RAMITE T	DATE: 6-22-98 VEHICLE NO .: E-/ DRIVER NO .:	LEASE NAME: K/1 NOT VY J J J J J J J J J J J J J J J J J J	LEASE OPERATOR/SHIPPER/COMPANY: Rice	 Sundance Services, Inc. No 13966 F.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
CHARLENN KUND # 2576	White-Sundance Canary-Sundance Acci#1 Pine-Sundance Acci#2 Gold-Transporter Revised 12/127/95	PRIVER: HILDPALIN JOINT JUNES	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES. INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 4901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. : []_XARD 1/2 : []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.:	TYPE OF MATERIAL	CHARGE TO: RAMINE ?	DATE: / -) 7-98 VEHICLE NO .: 2 DRIVER NO .:	TRANSPORTER COMPANY: RAMITE AM/PM	LEASE OPERATOR/SHIPPER/COMPANY:	

Statement at the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: Softwarture: State of the state of	VOLUME OF MATERIAL [] BBLS. LYARD L I AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS INFERMENT IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS A MENDED FROM TIME TO TIME, 40 U.S. (\$ 6901, et seq., THE NM HEALTH AND SAF CODE § 361.001, et seq., AND RECULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, AND RECULATION SELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ACILITY FOR DISPOSAL.	CHARGE TO: Ranicz TYPE OF MATERIAL Image: Strain Strai	LEASE OPERATOR/SHIPPER/COMPANY: Right LEASE NAME: Black 4-35 TRANSPORTER COMPANY: Remire 2 TIME: AM/PM DATE: 1-22-98 VEHICLE NO.: 2-1 DRIVER NO.:	Sundance Services, Inc. No. 13971 P.O. Box 1737 * Eunite, NM 88231 (595) 394-2511
THIS WILL CERTIFY that the above Transporter loaded the material represented by Statement at the above described location, and that it was tendered by the above desc will certify that no additional materials were added to this load, and that the material without incident. DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Cenary-Sundance Acct#1 Fink-Sundance Acct#2 Gold-Transporter Revised 12/27/95	VOLUME OF MATERIAL [] BBLS.	CHARGE TO: TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soli [] C-117 No.: [] Other Material: [] BS&W Content: [] C-117 No.: Description: D/L D/L D/L	LEASE OPERATOR/SHIPPER/COMPANY: A/CC LEASE NAME: B//NCP64 H - 35 TRANSPORTER COMPANY: RAMINEZ TIME: DATE: 6-22, 98 VEHICLE NO.: E-2 DRIVER NO.:	P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511

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CHARACTER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DRIVER: ULGA CALIFY REPRESENTATIVE: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Canary-Sundance Acciff Pink-Sundance Acciff Gold Transporter Revised 12/27/95	S WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Summent at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: [] YARD // 2 : []	Description:	TYPE OF MATERIAL Freduction Water [] Drilling Fluids [] Tank Bottoms [] Contaminated soil [] Tank Bottoms [] Contaminated soil	CHARGE TO: RAMING	DATE: 6-22-9 & VEHICLE NO .: E A DRIVER NO .:	TRANSPORTER COMPANY: RAMITEZ TIME: AM/PM	LEASE NAME: Biringy #35		Sundance Services, Inc. / Nº 13975 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	
CITALUAN ANID 1 2576	DRIVER: D'Unu beges 5 (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Constry-Sundance Accil ¹ Pink-Sundance Accil ² Gold-Transporter Revised 12/27/95	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS	[] Other Material: Description: 0 バタ ルビス ロー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Tank Bottoms [] Contaminated soil [] Tank Bottoms [] Contaminated soil	CHARGE TO:	DATE: 6-22-98 VEHICLE NO .: 2 DRIVER NO .:	TRANSPORTER COMPANY: TIME: AM/PM	LEASE NAME: RINGER H.35	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No 13979 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	

CHREWANN SHIDD # 2576	White-Sundance Canary-Sundance Acci#1 Fink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: (SHCMATURE)	DRIVER: 110m Scharce	TWS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter ent at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRAN'S THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS.SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER, REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND RECULATIONS RELATED THERETO. BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR	VOLUME OF MATERIAL [] BBLS: LTYARD /2	TYPE OF MATERIAL For the second	CHARGE TO: X/2 C	DATE: 6-22-50 VEHICLE NO.: DRIVER NO.:	TRANSPORTER COMPANY: Ramine 7 TIME: AM/PM	LEASE NAME: Slincby H-35	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. () No. 13980 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511						
CHEVENAL 117175	White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter	FACILITY REPRESENTATIVE:	without incident.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, el seq., THE NM HEALTIH AND SAF. CODE § 361.001, el seq. AND REGULATIONS RELATED THERETO. BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS. PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: []YVARD /2 : []	TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content: [] C-117 No.: Description: O// J// J//	CHARGE TO: KAMILEY	DATE: 6-22 AS VEHICLE NO .: D DRIVER NO .:	THANSPORTER COMPANY: RAMINE - AM/Ph	LEASE NAME: B/1/2-B/10 H-35		Sundance Services, Inc. No 13984						
	THIVHAN KEID # 2576 A. A. A. A. A. A. A. A. A. A. A. A. A.	White Sundance Canary-Sundance Acci# Pink-Sundance Acci#2 Gold-Transporter	FACILITY REPRESENTATIVE:	DRIVER: With by by	Statement at the above described location, and that it was tendered by the above described shipper. This write the incident incident incident.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH	JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND RECULATIONS RELATED THERETO, BY VIRTUE OF THE EXMPTION AFFORDED BRILLING FLUIDS. PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS	VOLUME OF MATERIAL [] BBLS: [4YARD /2 : []	Image: Revenue of the second decision	[L2roduction Water [] Drilling Fluids [] Completion Fluids	TYPE OF MATERIAL	CHARGE TO: RAMILE	DATE: 6-22-9 & VEHICLE NO.: / DRIVER NO.:	TRANSPORTER COMPANY: Reminer Time: AM/PM	LEASE NAME: Blinker H-35	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 * Eunice, NM 88231 M2 13985	
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CHNNUNNANUD / 2576	White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27195	FACILITY REPRESENTATIVE: (SIGNATURE)	DRIVER: (SIGNATURE)	without incident.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 9901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRLLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR	VOLUME OF MATERIAL [] BBLS: JYARD /2: []		[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: AAM	DATE: 6-77-98 VEHICLE NO .: 2 DRIVER NO .:	TRANSPORTER COMPANY: TIME: AM/PM	LEASE NAME: BINDLAN IT 35	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	Sundance Services, Inc. No 13991	

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10 U12A/X ASIGU 20 2576	hite-Sundance Canary-Sundance Acci#1 Fink-Sundance Acci#2 Gold-Transporter	ACILITY REPRESENTATIVE: (SIGNATURE)	WILL CERTIFY that the above Transporter loaded the material represented by this Transporter internent at the above described location, and that it was tendered by the above described shipper. This All certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH HIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY PERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS DB TICKET, OPERATOR/SHIPPER REFRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED EREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS MENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., ND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED BUILLING FLUIDS, RODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR RODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	OLUME OF MATERIAL [] BBLS	Description: Orly dirt] Production Water [] Drilling Fluids [] Completion Fluids] Tank Bottoms [] Contaminated soil [] C-117 No.:] Other Material: [] BS&W Content:	TYPE OF MATERIAL	HARGE TO:	IATE: 6-23-9 S VEHICLE NO .: DRIVER NO .:	HANSPORTER COMPANY: ROMANCE TIME: AM/PM	EASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 14007 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
GTINA UNAXY AXIADD # 2576	White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transpor Statement at the above described location, and that it was tendered by the above described shipper. will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WIT THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED E OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, II FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THI JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, A AMENDED FROM TIME TO TIME, 40 U.S.C. § 5601, el seq., THE NM HEALTH AND SAF. CODE § 361.001, el seq AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: /TYARD /Z_: []	Description: Orly diff	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL		DATE: 6-23-50 VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY: R R M/ 125 TIME: AM	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 1400 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511

THE VEHICLE CAREFY SHRUNKE ACCUPT FUR-SHRUNDER ACCUPT FUNSIONER	DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	THS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter sevent at the above described location, and that it was tendered by the above described shipper. This with Certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. : [] YARD 200 []	TYPE OF MATERIAL I prilling Fluids [] Completion Fluids I other Material: I Sontaminated soil [] C-117 No.: Description: I BSAW Content: II BSAW Content:		LEASE NAME: Slincbally - Driverrat THANSPORTER COMPANY: CHIME: AM/PM DATE: 6-23-TVEHICLE NO.: # 1 DRIVER NO.:	Sundance Services, Inc. No. 14016 P.O. Box 1737 * Eunite, NM 88231 (505) 394-2511
White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. The will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENNEED FROM TIME TO TIME, 40 U.S.C. § 6901, el seq., THE NM HEALTH AND SAF. CODE § 361.001, el seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. [] VARD 2400 []	TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Tank Bottoms [] Completion Fluids [] Other Material: [] Conteminated soil [] Other Material: [] BS&W Content: Description: II BS&W Content:	CHARGE TO: K.CC	LEASE OPERATOR/SHIPPER/COMPANY: K. C. LEASE NAME: BIL'A COMPANY: K. C. TRANSPORTER COMPANY: DAM, REZ TIME: AM/PI	Sundance Services, Inc. No. 14017 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511

THE VENN ARDD # 2576	White-Sundance Canary-Sundance Accu#1 PinkSendance Accu#2 Gold-Transporter Revised 12/127/95	FACILITY REPRESENTATIVE: (SIGNATURE)	DRIVER: 10012 AND A .	WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incidend	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTÁNCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq THE NM HEALTH AND SAF. CODE § 361.001, et seq AND REGULATIONS' RELATED THERETO. BY VIRTUE OF THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. *** \$ \$ \$ \$ \$ \$ \$ \$ 1	Description: <u>OUUUU</u>	[] Derilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soll [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: X. a p	DATE: C. 3. S VEHICLE NO .: C DRIVER NO .:	TRANSPORTER COMPANY: RANNELY Z TIME: AM/PM	LEASE NAME: Blipper H-35	IFASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 14021 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
CIUN VAN KRUD # 2576	White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: SIGNATURE)	DRIVER: Juldan Digherro	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. Thi will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDARCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.' FACILITY, FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. [] YARD 22 2 2 []	Description: Reg duit	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms Secontaminated soll [] C-117 No.: [] Other Material: [] I BS&W Content:	TYPE OF MATERIAL	CHARGE TO: K, CE	DATE: 6713-58 VEHICLE NO .: # 1 DRIVER NO .:	TRANSPORTER COMPANY: RAW, REZ TIME: AM/P	LEASE NAME: BL. ACBERTY - DIINTAIN		P.O. Box 1737 * Eunice, NM 88231 F.O. Box 1737 * Eunice, NM 88231

White-Stuidance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95 Revised 12/27/95 Revised 12/27/95 Revised 12/27/95	PRIVER: JULY SIGNATURE	THS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter sent at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARBANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARKANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, et seq. THE NM HEALTH AND SAF. CODE § 561,001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. : [] YARD /2485 []	Image: Constant of the second seco	TYPE OF MATERIAL	CHARGE TO: Kice	DATE: 6-23-78 VEHICLE NO .: # / DRIVER NO .:	LEASE NAME: Blincberry - Urinkand	Sundance Services, Inc. No. 14025 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
White-Sundance Canary-Sundance Accu#1 Pink-Sundance Accu#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transpo Statement at the above described location, and that it was tendered by the above described shipper will certify that no additional materials were added to this load, and that the material was delivere without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED W THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TH JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATTERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq THE NM HEALTH AND SAF. CODE § 361.001, et AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRULING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS. [] YARD 1244 []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] Description:	TYPE OF MATERIAL	CHARGE TO: Kice	DATE: 2-73- TUEHICLE NO .: # 2 DRIVER NO .:	LEASE OPERATOR/SHIPPER/COMPANY: Kice	• Sundance Services, Inc. Vo 140 P.O. Box 1737 * Emice, NM 88231 (505) 394-2511

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THE PEAK ANTID # 2576	FACILISTY REPRESENTATIVE: CSIGNATORE) (SIGNATORE) White-Sundance Canary-Sundance Accil/I Pink-Sundance Accil/I Gold-Transporter Revised 12/12/195	DRIVER; JUST SIGNATURE	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Statement at the above described location, and that it was tendered by the above described will certify that no additional materials were added to this load, and that the material was without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHI THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DEL OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SE FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SF HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, el seq., THE NM HEALTH AND SAF. CODE § 361 AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING I PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMEN PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS : : LAVARD // :	÷	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soll [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO:	DATE: 6-23-90 VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY:	LEASE NAME: Of line by 14-35-	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. (No P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511

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NEW MEXICO SERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

September 3, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 357 870 142

Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35-Ts22s-R37e Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated June 29, 1999 concerning the above captioned facility. ROC requested an approval to modify its original plan submitted on March 16, 1999 by utilizing an existing natural clay layer (lense) found at 29-32 feet below surface of the site instead of installing the proposed polyethylene liner over the contamination. ROC's report indicates groundwater below the site is at an estimated depth of 60-65 feet, according to the nearest water well identified by the State Engineers's office. The site location map shows there is a windmill located within 400-500 yards east-southeast of the site in Monument Draw, but does not identify if this is the referenced water well from the State Engineer's office. The report indicates that chloride levels as high as 3,750 ppm remain in the soils below the site and above the natural clay layer.

Please note that NMOCD's records indicate there is a windmill in close proximity located in Monument Draw in an area where the Ogallala has been eroded out and the depth to ground water is between 27-30 feet below ground surface (see state engineers record 22-37-35 134434) and was observed during a field trip to the site. The topo map supplied shows there is a natural surface dip toward the windmill located in the draw. NMOCD is concerned about contamination from the site migrating along the clay lense path and entering into Monument Draw and/or entering into groundwater. Ms. Haynes Z 357 870 142 September 3, 1999 Page 2

In order to properly evaluate ROC's modification request the NMOCD requires the following information:

- 1. Please provide the vertical and horizontal profile of the clay layer (lense) between the site and Monument Draw.
- 2. Please provide the horizontal extent of the contamination along the path of the clay lense. If the clay lense is dis-continues down gradient of the site, then provide the vertical extent of the contamination at that point.
- 3. Please demonstrate how ROC will prevent existing contamination found below the site from entering into surface or sub-surface waters in the foreseeable future.
- 3. Please demonstrate how natural attenuation will reduce the contaminants (i.e. chlorides) in the foreseeable future as proposed in Item 5. of letter dated 06/29/99.
- 3. Please collect a water sample from the closest down-gradient water source. Please analyze the sample for general chemistry using approved EPA methods.

Please provide the above information by November 15, 1999. If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayve (in

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs office

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that w card to you. Attach this form to the front of the mailpiece, or on the back if spa permit. Write <i>"Return Receipt Requested"</i> on the mailpiece below the arti The Return Receipt will show to whom the article was delivered a delivered.	ve can return this ce does not icle number. and the date	I also wish to r ing services (f 1.	eceive the follow- or en extra fee): هلی ee's Address ed Delivery
TURN ADDRESS completed (3. Article Addressed to: RICE OPERATING CO. 122 2155T TAYLOR HOBBS, MM 88240 Att: CAROLYN DRAN HAYNES 5. Réceived By (Print Name)	4a. Article Nu Z 357 4b. Service T R Registered Express M Return Reco 7. Date of Del 8. Addressee	mber 870 / 42 ype lail eipt for Merchandis livery 4 Address (<i>Only</i>	Certified
Is your <u>RE</u>	6. Signáture (Addressee or Agent) PS Form 3811 , December 1994	fee is paid)	9-B-0223 Dome	stic Return Receipt

Ar 13.



R C E Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. Z 577 009 518

June 29, 1999



Mr. Wayne Price State of NM Energy and Minerals Dept. Oil Conservation Division 2040 South Pacheco St. Santa Fe, NM 87505

Re: Aboveground Redwood Tank Removal, SWD H-35 Blinebry Drinkard Salt Water Disposal System NE/4, Section 35-Ts22s-R37e, Lea County, NM

Dear Mr. Price:

In response to your request of May 5, 1999, for further information concerning the H-35 aboveground redwood tank site, Rice Operating Company addresses each item as follows:

- 1. A topographic plot drawing of the site is attached. A vertical cross-section of the site is attached that denotes the results of chloride and TPH concentrations at the various sample sites. A calculated mass of in-situ contaminates is improbable to ascertain due to the various strata layers and their specific indeterminate densities. ROC is reluctant to stipulate any such mass quantity due to the obvious fallibility of delineation assumptions.
- 2. After in-depth discussions with various system partners and their environmental departments, it has been decided that at this time, no moisture barrier is needed because, as evidenced by the drilling log, there is an existing, natural clay layer at 29-32 feet BGS. This layer did indeed stop contamination migration, as illustrated by boring sample lab results. This is sufficient substantiation that any future downward or lateral natural moisture migration will be interrupted by this layer before the opportunity to impact ground water. Again the source of contamination has been removed, the TPH impacted soil has been removed, soil in-place tests reveal a level of <10ppm TPH and <100 ppm for PID reading, and 4+ feet of clean cover was used to backfill the excavated area.
- 3. Lateral moisture migration is addressed in #2 above.



- 5. Rice Operating Company has no plans to monitor groundwater at this site because groundwater was not impacted. The source of contamination is removed, the three-feet-thick, natural clay-barrier is located at 29 32 feet BGS (33-36' above GW) and is positioned to prevent any future percolation of contaminates to groundwater. Natural attenuation will be relied upon to remediate the vadose zone over the foreseeable future.
- 6. Copies of disposal manifests are attached. All impacted soil that was removed from the site was hauled to the Sundance Parabo facility.
- 7. The soil boring was plugged with bentonite per Cooper and Harrison Drilling contractors. Chloride delineation was achieved at 30' (111ppm), approximately 35 feet above the estimated top of the water table, according to the State Engineer's Office data for this area. There is evidence of a three feet thick natural red-clay layer at 29-32' BGS.

Rice Operating Company submits this additional information pursuant to NMOCD's request and again petitions for closure plan approval for the redwood tank formerly located at this facility. If this closure plan is acceptable, then the Pit Remediation and Closure form will be completed and submitted. No further work will be performed at this site until the NMOCD responds to this request.

If you have any questions, please call.

Carolyn Doran Haynes

Carolyn Doran Haynes Operations Engineer

- Enclosures: Topographic plot plan of H-35 site Cross-sectional plot of H-35 site Boring Log and Associated Lab Analysis Misc. Sample Analysis (not included w/ previous submissions) Copy of July 8 Submission by F. Wesley Root Disposal Manifests
- Cc: KH, LBG, file,
 Ms. Donna Williams
 State of NM Energy and Minerals Dept.
 Oil Conservation Division
 1625 French Drive
 Hobbs, NM 88240

Mrs. Chloe Simms P. O. Box 922 Eunice, NM 88231





D	RIL	LING LOG	Site Name /Location	Well No. B-1	Date Dril 3-6-9	led: 9	Driller: C. Harrison	F	ogged by: WR
R	ICE O	perating Company	SWD Facility H-35	Well Depth: N/A	вол. 34'	epth:	Well Material: N/A	C	Construction:
н	122 Jobbs, I	New Mexico 88240	Blinebry-Drinkard	Casing Length:	Boring Di	ameter:	Casing Size:	- P b	lugged boring y filling from
	Phone Fax:	: (505) 393-9174 (505) 397-1471	SWD System	Screen Length:	Drilling M	ethod:	Slot Size:	- to	otal depth to urface with
			Lea Co. New Mexico	N/A	Air Rota	ary	N/A	b	entonite
DE (f	PTH ⁻ eet)	SUBSUF	RFACE LITHOLOGY	Sample Type	OVM (ppm)	R	EMARKS		Boring
	- 0	Ground Surface Caliche backfill ma	aterial			<u> </u>			
	1 2 · 3	Red-bed backfill m (Light red clayey sl	aterial lightly calcareous sand)			◆ TPH・	< 10 ppm		
	- 5 6 7 8	Light brown, fine-g	grained, calcareous sand (caliche)			Sample fi excavatio above-gra Collected	rom bottom of on created during ade tank removal. 1 3/12/98.		
	10 11 12 13 14	Light gray indurated	d limestone	-		♦ Chlori Sample fr trench. Co	de – 1,766 ppm fom bottom of ollected 6/16/98.		
	15	Gray-brown line-gra	ained calcareous sand (caliche)			Chlasie	1- 2.500		
	16			Split-Spoon	<1		ie – 3,300 ppm		
	17 18 19	Light gray slightly s	andy calcareous silt (caliche)	-			·		
	20 21			Split-Spoon	<1	Chlorid	le – 3,750 ppm		
	22 23 24	Red-brown and whit calcareous sand (cali	te mottled silty fine-grained iche)						
	25 26			Split-Spoon	<1	 Chlorid 	le – 2,500 ppm		
	27 28 29 30		······································	-		• Chlorid	e – 240 ppm	·	
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	33 34	Light gray tine-grain	ed calcareous sand (caliche)	Split-Spoon	<1	 Chlorid TPH – 	de – 111 ppm 19.8 ppm		
	33 36 37 38 39 40	Total Depth of Borin	ng @ 34 feet			• Fiel • Labo	d Screen pratory Result Pentonite Seal		

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PHONE (915) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 03/08/99 Reporting Date: 03/09/99 Project Number: NOT GIVEN Project Name: SWD H-35 Project Location: LEA CO. NM Sampling Date: 03/06/99 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE:	03/08/99	03/08/99
H4050-1 B-1 (30-31')	29.0	111
H4050-2 B-1 (33-34')	19.8	111
Quality Control	244	1335
True Value QC	240	1319
% Recovery	102	101
Relative Percent Difference	3.2	1.5
METHODS: EPA 600/4-79-02	418.1	325.3
*Analyses performed on 1:4 w	r:v aqueous extracts.	



Coshy

Date

H4050.XLS

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.

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USTODY AND ANALYSIS REQUEST	ANALYSIS REQUEST																		Terms and Conditions: Interest will be charged on all accounts more than	30 days past due at the rate of 24% per arnum from the original date of involce, and all costs of collections, including attorney's face.	lditional Fax #:		•••				
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st Marland, Hobbs, NM 88 93-2326 Fax (505) 393-2476		BILL TO PO #:	Company:	Attn:	Address:	City:	State: Zip:	Phone #:	Fax #:	PRES. SAMPLING	בע : ג כססר ז: ובע :		V 3-6-99 10/3	1 3-6-79 11:36					d in contract or tort, shall be limited to the amount pa writing and consisted by Cardinal within 30 days and	erruptions, loss of use, or loss of profile incurred by such claim is based upon any of the above stated	Phone Fax R	REMA	ab Staff)	A Real a	n/ CHECKED BY:		
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ARDI	Company Name: A		Address: 122 W	City: Hobbs	Phone #: 505 - 3	Fax #: 505-3	Project #:	Project Name: St	Project Location:	FOR LAB USE ONLY	LAB I.D.	MINYAL		1					PLEASE NOTE: Linblity and Dam analyses. All claims including those	service. In no event shall Cardinal affiliales or successors arising out	sampler Kelinquish	Y. Whaley	Relinquished By:		Delivered BV: (C	Sampler - UPS - Bt	

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RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: 505-393-9174 Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: Pump Station H-35

DATE: <u>2-20-98</u>

SYSTEM: BLINEbry DRINKARd

LOCATION: <u>H-35-7225-R37E</u>

Sample ID	Date	Time	Headspace Reading (ppm)	Description
BH7'	6-16-98	9:35	× 1	
BH 9'	6-16-78	9:40	41	
BH10'	6-16-98	9:50	<1	
BH 11'	6-16-98	10320	لا ا	
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COMMENTS:

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.



RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: 505-393-9174 Fax: 505-397-1471

ANALYSIS REPORT

FACILITY: Pump Station H-35

DATE: 2-20-98

SYSTEM: <u>BLINEBAY DRINKARD</u>

LOCATION: <u>H-35-7225-R37E</u>

Sample ID	Date	Time	Headspace Reading	Description
			(ppm)	
B-1	2-20-78	14:00	20.3	
B-2	2-20-78	14:10	81.4	
BC	2-20-78	14:20	8.5	
5C	2-20-98	14:30	89.1	

COMMENTS: ______

Organic vapor readings were obtained using the headspace procedure as described in Guidelines for Remediation of Leaks, Spills, and Releases, New Mexico Oil Conservation Division, August 13, 1993.

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CROSSECTION 1 Concrete Pad (TANK base) .0' 2! 4' H PINK F6 CAL 6 ..8'. Lt GAAT FG CAL 2 Hand StReak 10' -10 BOTTOM OF SAMPLE TAENCH Lt GRAY+ Red Moto 12 INdurofed FG 5d CALCAREOUS 14 .16 -18 20' ۰Z٥ .22 -24 -26 28 30 - 30 L32 54 feet 40 3' (7') 8H-? 9:35 (9') 5′ BH-9 9:40 6' (10') BH-10 9:50 BH-11 2' (1')10:00 50 Samples collected my F. Wesley Root from Trench in bottom of evioration on 6-16-98 60' 7. Leleky Kost est. Top of Water table \$\$ 65' 9:00 - inspected 4-9 day 6-16-98 9:30-10:30 Projues Isench at H-35

Ν 8-10 6 MAP VIEW B-2A Fot box 6"DEEP SA B-IA CENTION 4-21-98 Bottom of Hold è, 67.14 Excavation boundary CROSSECTION Concrete Pad (TANK base) 0' 2' 2′ 4! 4' Bottom of excavation 6 6 × 8 ..8' B-2 B-1 10' to' _ SWD WELL H-35 BD SWD System H- 35-T225-R37E

RICE Operating Company

122 West Taylor HOBBS, NEW MEXICO 88240 (505) 393-9174

July 8, 1998

Mr. Wayne Price State of New Mexico Energy and Minerals Department Oil Conservation Division P. O., Box 1980 Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35 of T22S R37E, Lea County, New Mexico

Mr. Price:

Rice Operating Company (ROC) has completed the removal of the redwood tank formerly located at the above-referenced facility. The work was performed during the course of normal maintenance operations when ROC replaced the tank with two above-ground fiberglass tanks. This report was prepared to document our actions as you requested during your site visit on April 17, 1998.

The redwood tank was used to store produced water prior to disposal by subsurface well injection. The 850 barrel tank was 28 feet in diameter and 8 feet tall. Once the tank had been removed from the location, the area was visually inspected for evidence of significantly contaminated soil and this material was dug out with a backhoe. The resulting excavation was approximately 36 feet in diameter and 4 feet deep. The excavated material, approximately 240 lcys (loose cubic yards), was staged within a bermed area located on the northwest corner of the site.

Samples of the material from the floor and sides of the excavation were collected to document the vertical extent of adverse impact, if present. The samples were field screened for volatile organic compounds (VOCs) with a HNU DL-101 photoionizer detector (PID) using the NMOCD (New Mexico Oil Conservation Division) headspace method. Field screening results recorded VOC levels of less than 1 ppm (part per million) in all samples. Since the PID results were well below 100 ppm (typical NMOCD recommended remediation action level), no samples were submitted for BTEX (benzene, toluene, ethylbenzene, and total xylenes) analysis.



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The sample collected from the deepest point of the excavation was submitted to Cardinal Laboratories for total petroleum hydrocarbon (TPH) analysis using EPA Method 418.1. Sample Onsite-1 was obtained from a depth of 4 feet below ground surface and recorded a TPH level of less than 10 ppm. The PID and TPH results confirmed our original estimate that we had delineated and removed any hydrocarbon-impacted soils during excavation.

Eight random samples (ES-1 through ES-8) were collected from the staged material to establish baseline conditions and determine treatment/disposal options. The samples were field screened for VOCs with a PID using the NMOCD headspace method. The PID results ranged from 25 ppm to 230 ppm with the calculated average for the material equal to 124 ppm.

Since one of the treatment options we were evaluating was to landfarm the material on-site, three of the random samples (ES-3, ES-5, and ES-8) were submitted to Cardinal Laboratories for chloride analysis. Samples ES-3, ES-5, and ES-8 recorded chloride levels of 4,960 ppm, 4,150 ppm, and 4,960 ppm, respectively.

In addition, a sample was collected from the center of the excavation at a depth of 7 feet below ground surface and submitted for chloride analysis to document soil concentrations. Sample Onsite-2 recorded a chloride level of 2,600 ppm and a PID reading of less than 1 ppm.

In order to develop a vertical profile of chloride levels, a trench was dug in the bottom of the excavation using a backhoe. Work was stopped when indurated caliche was encountered at a depth of 11 feet below ground surface. A soil sample was collected at this point for headspace screening and chloride analysis. Sample BH-11 recorded a chloride level of 1,766 ppm and a PID reading of less than 1 ppm.

Due to the limited surface area available, treatment options such as landfarming or blending the impacted soil with clean dirt were determined to be uneconomical solutions for the site. The most practical method to clean up the site was to haul the impacted material to a NMOCD permitted facility for disposal and backfill the excavation with select material purchased from a commercial pit.

A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc.. The former tank location was backfilled with select material and the ground surface contoured to match the existing location pad.

Summary

- 1. The source of soil contamination was the redwood tank and this source has been eliminated.
- The maximum vertical extent of hydrocarbon-impact was 4 feet below ground surface. In-place soil below this depth recorded PID readings less than 1 ppm and TPH levels less than 10 ppm. The impacted soil was removed during the excavation of all significantly contaminated soil based on visual identification.
- 3. Chloride levels decreased rapidly with depth from approximately 4,700 ppm in the excavated soil to less than 1,800 ppm at a depth of 11 feet below ground surface.
- 4. A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.
- 5. The excavation was backfilled with select material and the former tank location was shaped to grade.

If you have any questions please feel free to call.

Sincerely,

7. Wesley Root

F. Wesley Root Projects Manager

Enclosures: Laboratory Analytical Results Chains-of-Custody

cc. KH, JM, File



PHONE (915) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 112 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

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Receiving Date: 03/19/98 Reporting Date: 03/24/98 Project Number: NOT GIVEN Project Name: B.D. REDWOOD Project Location: SEC 35-22-37

Analysis Date: 03/24/98 Sampling Date: 03/12/98 Sample Type: SOIL Sample Condition: COOL, INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID

TPH (mg/Kg)

H3517-1	ON SITE 1	<10
		· · · · ·
Quality Contro	<u></u>	104
Quality Contro	DI	194
True Value Q	C	200
% Recovery		97.0
Relative Perc	ent Difference	2.1

METHOD: EPA 418.1, 3510, 3540, or 3550; Infrared Spectroscopy

? Cooky

Date

PLEACE SETE Values 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 more 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.

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† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

BER SAMPLE ID

Cl⁻ (mg/Kg)

4500 Cl B

H3597-1 C	ON SITE 2	2600
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Quality Control		476
True Value QC		500
% Recovery		95.0
Relative Percent Diffe	rence	0.8



NOTE: Analysis performed on an aqueous extract.

METHOD: Std. Methods

Burjess All Costre Chemist

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. This event shall 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.

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st Marland, H 93-2326 Fax		BILL TO	Company:	Attn:	Address:	clty:	State:	Phone #:	Fax #:	PRES.	סדאבת : כב / כססנ זכום: מדאבת :					 	1 in contract or tort, shall i writing and received by (erruptions, loss of use, or r such claim is based upor		al Staff	on CHECKE	(Initia	
<i>3</i>, <i>INC</i> . 73-7020 (505) 3				7240			D. SWD			MATRIX	RROUNDWATER NASTEMATER Soll Dil Tic Terdee	X					any claim arising whether base deemed walved unless made in) without limitation, business int Cardnal, regardess of whethe	Received By:	Received By: A	Sample Condition	Cool Intact	
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† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

MBER SAMPLE ID

Cl⁻ (mg/Kg)

H3599-1 ES-3	4960
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· · · · · · · · · · · · · · · · · · ·	
Quality Control	476
True Value QC	500
% Recovery	95.0
Relative Percent Difference	0.8
METHOD: Std. Methods	4500 CI⁻B



NOTE: Analysis performed on an aqueous extract.

mjessff look

4/24/48

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, hereing these or negligence and any other cause whatsoever shall be deemed waived unless made in writing and raceived by Cardinal within thirty (30) days after completion of the applicable service. Involvement 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.

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CHAIN-OF-CUST Marland, Hobbs, NM 88240 2326 Fax (505) 393-2476		mpany: SAME	20-	Iress:	رز کام: کام:	09	¥4	PRES. SAMPLING HU	<i>کړ د کړ چ</i> ۱۳۶۶ کړ چ ۱۳۶۸ - ۲۰۰۰ ۱۳۶۹ - ۲۰۰۰	Q U F DATE TIME ℃ H-21-98 2:45 ×				reserves view, entais or entremotion arginous paticopy the casen too not ge and received by Cardinal within 30 days a fler completion of the applicable ons. Joss of use, or loss of profils incurred by steril, its subsidiantes, clein is based upon any of the above attaled researces or chinevidae.	Phone Result D Yes D No Additiona Fax Result: X Yes D No REMARKS:	Staff	CHECKED BY:	(Initials)	0 915-673-7020.
DINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East A (915) 673-7001 Fax (915) 673-7020 (505) 393- 21.05	Tala I Made 20	2 W TAYLOR COT	65 State:WMZIp: ダタスイク Attr	93-9174 Add	・ノイノ/ City 、35 Project Owner: アクル・イルク Stal	REDWOOD REMOVAL PHO	H-35-22-3> Fax	MATRIX	Sample I.D. оителиеда оилочетед .sтеметед .sтеметед .l				Demages. Cardinal's fability and clearly a archistyle remedy for any claim analogo.	hose for neglgence and any other cause whetsoever shall be deemed varived unters made in within and be fable for incidental or consequentel damages, including without imitation, business intermation out of or related to the performance of services hereunder by Cardnal, regardess of whether such.	Actily Time Speed By:	Date: Date: Received By: Gab	(Circle One) Sample Condition	Bus - Other:	annot accept verbal changes. Please lax written changes t
Company Name:	Project Manager:	Address: /22	Clty: 17061	Phone #: 3	Project #: H	Project Name:	Project Location:	FOR LAB USE ONLY	LAB I.D.	1-5925EH			PLEASE NOTE: LIAMBLY and D	analyses. All claims including the service. In no event shall Cardi affiliates or successors arising o	Sampler Kellingens	Relinquished By:	Delivered By: (Sampler - UPS - 1 + Cardinal car	

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY. JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37

Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

CI_ (mg/Kg)

H3598-1 ES-5	4150
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	· · · · · · · · · · · · · · · · · · ·
Quality Castrol	476
	500
% Recovery	95.0
Relative Percent Difference	0.8
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METHOD: Std Methods	4500 CE B



NOTE: Analysis performed on an aqueous extract.

A Cost

Date

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 to be a set of the analysis of the applicable of the applicable and any other cause what see what set of the applicable in writing and received by Cardhal within thirty (30) days after completion of the applicable service. The applicable and any other cause what see what see what see and any other cause what see what see applicable is a service. The applicable applicable applicable applicable service. The applicabl 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.

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ast Marland, Hobbs, N 393-2326 Fax (505) 39		BILL TO PO#	Company: 5/3-111	Attn:	Address:	City:	State: ZIp:	Phone #:	Fax #:	PRES. SAMPLI	בע : כססר : בע :		RL-1X-4				ed in contract or fort what he inded to the	in writing and received by Cardinal within the the second se	er such claim is based upon any of the ab		Lab Staff	le	Ion CHECKED BY:	s (IIIIIIais) 0
RATORIES, INC. 2d, Abilene, TX 79603 101 Εε 01 Fax (915) 673-7020 (505) 3	ATTKO	Moody 32	oR'	*KMZIP: S8240			ct Owner: B.D. Swill	REMOUAL	-3>	MATRIX	С ок сс)омр. сс)омр. ссо иноматек ватаматек тематек сс	צרחנ סור אעצ פסור פעס פעס # כס גפאס					iert's exciusive remedy for any claim stisling whether base	causa whatsoever shall be deemed walved unless made equential damages, including without finitation, business in e.e.d.	Date: 72 89 Received BV:	Time: 9504	Date: Received By:	Time:	Z Sample Conditi	
ARDINAL LABO 2111 Beechwoc (915) 673-700	Name: KICE OPEN.	ападег: <i>Эе́А n¹ k. 1</i> /	122 W MAYLO	Hebbs State	393-9174	397-1471	H~35 Projec	me: REAWOOL	cation: <i>H</i> - 35 - 22	JSE ONLY	I.D. Sample I						Lablity and Damages. Cardnafe Rability and cal	The Including those for hegigence and any other i and shall Cardnal be liable for incidental or conse assons arising out of or related to the performance	Relinguished:	+ Marson	led By:		ed By: (Circle One)	- UPS - Bus - Other:
9	Company	Project Mé	Address:	City: /	Phone #:	Fax #:	Project #:	Project Na	Project Lo	FOR LAB 1	LAB	112000	OT CC N				PLEASE NOTE:	analysee. Al clair service. In no ev affiliates or succe	Sampler	Malle J.	Relinquist		Deliver	Sampler



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

Cl⁻⁻ (mg/Kg)

4500 Cl⁻B

H3600-1 ES-8	4960
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Quality Control	476
True Value QC	500
% Recovery	95.0
Relative Percent Difference	0.8



NOTE: Analysis performed on an aqueous extract.

mjett fly Cook Chemist

PLEASE NOTE: Llability 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 Submersive 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.

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CHAIN-OF-(Aarland, Hobbs, NM 88240 2326 Fax (505) 393-2476		npany: 5/3M/E 0	- L - C	e: Zlp: ne #:	#: 600 PRES. SAMPLING	₹ <i>Р(¥?</i> 74) Ц Ц Ц Ц Ц Ц СООГ	× 20 UNIL IME			tract or tont, shall be finited to the amount paid by the calent for the and received by Cantonia within 30 day has completelents of the applicable for . Note of loss of trachis hormonia we are in embed as an experience	italm is based upon any of the above stated reasons or otherwise. Phone Result I Yes I No A Fax Result: X Yes I No REMARKS: Staff)	CHECKED BY: (Initials)
ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East M (915) 673-7001 Fax (915) 673-7020 (505) 393-2	ompany Name: KICE <u>op ENATINS</u> roject Manager: <u> </u>	ddress: 122 じ アイソトのR Com ity: 片のんらら State:MMZip: ダタスイン Attn:	thone #: 3 3 3 - 9 / ケナ Addi ax #: 3 9 7 - / ナケノ	roject #: <i>H</i> 、35 Project Owner: <i>R.U. S.W.D</i> State roject Name: <i>REDW006 REM0V</i> 74	roject Location: -/-35-22-32 Fax: FOR LAB USE ONLY MATRIX	LAB I.D. Sample I.D. Sample I.D. Soundowater Contrainers Contrainers Contrainers Contrainers Contrainers	13600-1 ES-8 3 3 0 0 0 0			EASE NOTE: Usbilly and Damages. Cendrafs lability and clearts exclusive remedy for any claim article whether based in control of the sector of	ampler Relinquished: Date: Date: Accelved BV: P.M	Sampler - UPS - Bus - Other: 2 Cool Infact 2 Yes Yes Yes + Cardinal cannot account voted other and a

fax written changes to 915-673-7020. ų 'n

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: F. WESLEY ROOT 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 06/16/98 Reporting Date: 06/16/98 Project Number: H-35 Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 06/16/98 Sampling Date: 06/16/98 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

R SAMPLE ID

C (mg/Kg)

4500 CI⁻ B

H3690-2 BH 11	1766
	· ·
Quality Control	1334
True Value QC	1355
% Recovery	98.4
Relative Percent Difference	1.6



NOTE: Analysis performed on an aqueous extract.

Gayle A. Potter, Chemist

_______ Date

PLEAST 300 babylity 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 these or 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.

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White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter tevised 12/27/95 IIIN PRAY SYNDE # 2576	ACILITY REPRESENTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH FHIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: LYYARD <: []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: Ramifer (Rich)	DATE: CONPANY: Company TIME: AM/PM	LEASE NAME: Binchry dratad #35-	LEASE OPERATOR/SHIPPER/COMPANY:	(505) 394-2511

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White-Sundance Canary-Sundance Acci# Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER:	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS. PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	CHARGE TO: Carrier TYPE OF MATERIAL	DATE: 6-27- SP VEHICLE NO .: DRIVER NO .:	LEASE NAME: Stracky HST TIME: AM/PM	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 * Eunice, NM 88231 Nº 13962 (505) 394-2511
White Sundance Canary Sundance Acct#1 Pink Sundance Acct#2 Gold-Transporter Revised 12/27/95 THA PEAN ANTO: # 2576	Statement at the above described location, and that it was tendered by the above described shipper. I will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: SIGNATURE FACILITY REPRESENTATIVE: (SIGNATURE)	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS-JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE; CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLONATION, DEVELOPMENT OR PRODUCID OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: LATARD Z : []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] B&W Content: [] C-117 No.: Description: Description: Description:	TYPE OF MATERIAL	DATE: 6-27-58 VEHICLE NO.: DRIVER NO.:	TRANSPORTER COMPANY: AND INT TIME: AMI	LEASE OPERATOR/SHIPPER/COMPANY:	• Sundance Services, Inc. No 13965 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511

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		White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: (SIGMATURE)	DRIVER, Ulan Schence	without incident.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AMENDED FROM TIME TO TIME, 40 U.S. C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361,001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION; DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS	VOLUME OF MATERIAL [] BBLS: [YYARD /2 []		Description: Other diff	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: RAMINEZ	DATE: 6-22-98 VEHICLE NO.: E-/ DRIVER NO.:	TRANSPORTER COMPANY: RAM / REZ TIME: AM/PM	LEASE NAME: R/, Ner RY # 25	LEASE OPERATOR/SHIPPER/COMPANY: Rice	Sundance Services, Inc. No. 13966 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511	
1 <u>183</u>	् हारल		is se gogi		<u></u>	ىڭ <u>ىكەن</u> تەركەن مىڭكەنتەركەن	स्वराजन सुरस्त		्यस म्हार्ट्स्ट्राप्ट्र इ.स.म्हार्ट्स्ट्राप्ट्र	en en ge	in the	ni vu		्राष्ट्रवस्य		-	بند بند ا				
THE VENU XHOP # 2576		White-Sundance Canary-Sundance Acct#1 PinK-Sundance Acct#2 Gold-Transporter Revised 12/27/95	FACILITY REPRESENTATIVE: SIGNATURE	DRIVER (SIGNATURE)	without incident.	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AMENDED FROM TIME TO TIME, 40 U.S.C. \$ 8901, et set, the NM HEALTH AND SAF. CODE \$ 301,007, et set, AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	AS A CONDITION TO SUNDANCE SERVICES, INC. 'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR, SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976. AS	VOLUME OF MATERIAL [] BBLS: [J_YARD /2 : []		Description: 01/4 2/14	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: RANKE Z	DATE: / - 77-98 VEHICLE NO .: 2 DRIVER NO .:	TRANSPORTER COMPANY: RAMITE AM/PN	LEASE NAME: Bline Dy H-35	LEASE OPERATOR/SHIPPER/COMPANY: Ric t	•. Sundance Services, Inc. No. 13970 P.O. Box 1737 * Emilie, NM 88231 (505) 394-2511	

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: ShowTURE ShowTURE ACILITY REPRESENTATIVE: SIGNATURE White-Sundance Canary-Sundance Accil Pink-Sundance Accil Pink-S	VOLUME OF MATERIAL [] BBLS. :: LYARD :: LYARD :: L AS A CONDITION TO SUNDANCE SERVICES, INC. 'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS A MENDED FROM TIME TO TIME, 40 U.S. C. § 6901, et seq. THE NM HEALTH AND SAF. CODE § 361.001, et seq. AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRULLING FLUIDS, PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC. 'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	CHARGE TO: KANICZ TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Completion Fluids [] Jank Bottoms [] Contaminated soil [] Contaminated soil [] C-117 No.: Description: Ouly Out BS&W Content:	Sundance Services, Inc. No 13971 P.O. Box 1937 * Emile, NM 88231 LEASE OPERATOR/SHIPPER/COMPANY: R.O. 2 LEASE NAME: B//werby H-35 TRANSPORTER COMPANY: Rom/rec 2 DATE: 1-2-75 VEHICLE NO.: 2 / DRIVER NO.:
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter loaded the material represented by this Transport will certify that no additional materials were added to this load, and that the material was delive without incident. DERVER:	VOLUME OF MATERIAL [] BBLS. I YARD / 2 I] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH 1 JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976 AMENDED FROM TIME TO TIME. 40 U.S.C. § 601, et seq. THE NM HEALTH AND SAF. CODE § 361,001, et and REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXPLORATION, DEVELOPMENT OR PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED V THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVEREI OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES FACILITY FOR DISPOSAL.	TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	Sundance Services, Inc. No. No. 13 P.O. Box 1737 * Emnice, NM 88231 P.O. Box 1737 * Emnice, NM 88231 No. 13 LEASE OPERATOR/SHIPPER/COMPANY: (S09) 394-2511 Image: State of the s

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THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Natement at the above described location, and that it was tendered by the above described shipper. This without incident. Solowaruan: Solowaruan: ACILITY REPRESENTATIVE: SIGNATURE Unite-Suntance Constr-Suntance Accut. Cold-Tansporter evised 12/27/95	VOLUME OF MATERIAL [] BBLS. : [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS SUB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SINPER TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL DELIVERED BY ACILITY FOR DISPOSAL.	CHARGE TO: Karrita TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Tank Bottoms [] Contaminated soil [] Completion Fluids [] Other Material: [] BS&W Content: [] C-117 No.: Description: Official [] BS&W Content:	LEASE OPERATOR/SHIPPER/COMPANY: RELEASE NAME: B/W/Ky #35 THANSPORTER COMPANY: RDM/FCZ TIME: AM/PM DATE: CDF VEHICLE NO.: EN. DRIVER NO.:
THIS WILL CERTIFY that the above Transpor Statement at the above described location, and will certify that no additional materials were ad without incident. DRIVER: DOMUS (SIGNATURE) (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Canary-Sundance Accis!) Pink-Suplance Accis?	VOLUME OF MATERIAL [] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND HEREWITH IS MATERIAL EXEMPT FROM THE RESOL AND REGULATIONS RELATED THERETO, BY VIRTUE PRODUCED WATERS, AND OTHER WASTE ASSOCIAT PRODUCED WATERS, AND OTHER WASTE ASSOCIAT PRODUCED WATERS, AND OTHER WASTE ASSOCIAT THIS JOB TICKET, TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELL FACILITY FOR DISPOSAL.	CHARGE TO: TYPE (TYPE ([] Production Water [] Drilling FI [] Tank Bottoms [] Contamin [] Other Material: [] BS&W Co Description: 0///p Diz7	LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: $\mathcal{B}/\mathcal{N}_{\mathcal{O}\mathcal{A}}\mathcal{B}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}A$

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	DRIVER: JUGNATURE) DRI FACILITY REPRESENTATIVE: (SHONATURE) FAC White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Cold-Transporter Revised 12/27/95 Revised 12/27/95 Revised 12/27/95 Revised 12/27/95	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRAN'S THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED ADD HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: /TYARD / C : []		[] Production Water [] Drilling Fluids [] Completion Fluids [] [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] [] Other Material: [] BS&W Content: [] [] Description: [] Material: [] [] [] Description: [] [] []		CHARGE TO:	DATE: 6-22-50 VEHICLE NO.: DRIVER NO.: DA	TRANSPORTER COMPANY: Ram, Sc 7 TIME: AM/PM	LEASE NAME: Sinchy H-35-	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
HIM PRIARY SHOP # 2576	DRIVER: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by in Statement at the above described location, and that it was tendered by the above described will certify that no additional materials were added to this load, and that the material without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL J DPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE ACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPE IOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY AC AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § : AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFRODED EALLIN PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMI PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMI PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: ['TYARD:	Description: Olly dirt	[] Production Water [] Drilling Fluids [] Completion Flu [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content: [] C-117 No.:	TYPE OF MATERIAL	CHARGE TO: RANICET	DATE: 6-12.98 VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY: KAMILE	LEASE NAME: Blue blu H-35	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 * Eunice, NM 88231

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(In PRAY LAND) / 550	DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Acci#1 Pink-Sundance Acci#2 Gold-Transporter Revised 12/27/95	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. 'S FACILITY FOR DISPOSAL.	JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO. BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING, FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS	Description: Orly Off	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	TYPE OF MATERIAL	CHARGE TO: RAMILEY	DATE: 6-22.9 & VEHICLE NO.: / DRIVER NO.:	LEASE NAME: Blingbory H-35	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No 13985 P.O. Box 1737 * Eunice, NM 88231 (508) 394-2511
White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2. Gold-Transporter Revised 12/27/95	PACILITY REPRESENTATIVE: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident:	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: LAYARD /2: []	[]] Other Material: []] BS&W Content: Description: O O I/fy Image: A state of the state	Image: Second State Image: Second State Image: Second State Image: Second State <td>CHARGE TO: AAM M</td> <td>DATE: 6-77-99 VEHICLE NO .: 2 DRIVER NO .:</td> <td>TRANSPORTER COMPANY: TIME: AM/PM</td> <td>LEASE NAME: R/M/ - IT 25</td> <td>(S0S) 394-2511</td> <td>- Sundance Services, Inc. Ne 13991</td>	CHARGE TO: AAM M	DATE: 6-77-99 VEHICLE NO .: 2 DRIVER NO .:	TRANSPORTER COMPANY: TIME: AM/PM	LEASE NAME: R/M/ - IT 25	(S0S) 394-2511	- Sundance Services, Inc. Ne 13991

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	FACILITY REPRESENTATIVE: (SIGNATORE)	DRIVER: (SIGNATURE)	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC. 'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC. 'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS. PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: FT YARD: []	[] Production Water [] Drilling Fluids [] Tank Bottoms [] Contaminated soll [] C-117 No.: [] Other Material: [] BS&W Content:		CHARGE TO:	DATE: 6-23-9 J VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY: Ramarca TIME: AM/PM	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 14007 P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511
Contraction of the second se	FACILITY REPRESENTATIVE: (SIGNATORE)	DRIVER: (SIGN TURE) A LAWYER	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Tre Statement at the above described location, and that it was tendered by the above described sh will certify that no additional materials were added to this load, and that the material was de without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPE THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVE OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICE FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WIT JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPP HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF I AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, et seq. THE NM HEALTH AND SAF. CODE § 361.001 AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRLLING FLUI PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS: : YARD : []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content: [] C-117 No.: Description: O'llllllllllllllllllllllllllllllllllll	TYPE OF MATERIAL		DATE: المرج באלי אין אין אין DATE: מאוויד אין אין אין אין אין אין אין אין אין אין	TRANSPORTER COMPANY: R PM/12-2 TIME:	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 1/ P.O. Box 1737 * Emnice, NM 88231 (505) 394-2511

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DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Canary-Sundance Acci#1 Pink-Sundance Acci#2 Gold:Transporter Revised 12/27/95	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTA THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THA OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRAN FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the m Statement at the above described location, and that it was tended will certify that no additional materials were added to this load, without incident.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE C JOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THA HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERV, AMENDED FROM TIME TO TIME. 40 U.S.C. § 6901, et seq., THE NM HI AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMP PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE E PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL E	VOLUME OF MATERIAL [] BBLS : []	[] Production Water [] Drilling Fluids [] Tank Botoms [] Cother Material: [] Other Material: [] B&&W Content: Description: ULL	LEASE NAME: () / , n C O C/14 - () / , TRANSPORTER COMPANY: () () () () () () () () () () () () () (LEASE OPERATOR/SHIPPER/COMPANY:
DRIVER: (SIMATURE) FACILITY REPRESENTATIVE: (SIGNATURE) White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95	ICE OF THE MATERIAL S SHIPPED WITH ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH TONLY THE MATERIAL DELIVERED BY SPORTER TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES. INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above described the material represented by this Transporter to by the above described shipper. This Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered	THE MATERIALS SHIPPED WITH THIS ITHE WASTE MATERIAL SHIPPED WITH THIS ITHE WASTE MATERIAL SHIPPED WITH THIS ITON AND RECOVERY ACT OF 1976, AS ALTH AND SAF. CODE § 361.001, et seq., ION AFFORDED DRILLING FLUIDS, PLORATION, DEVELOPMENT OR, PRODUCED WATERS, AND THE RESOURCE, BY CONCEPTION, DEVELOPMENT OR, PROCUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL EXEMPTION, DEVELOPMENT OR	ARD /200 [] VOLUME OF MATERIAL [] BBLS. : [] VARD /2005 []	L TYPE OF MATERIAL	Lease Name: Shine berg - Origitation L	LEASE OPERATOR/SHIPPER/COMPANY:

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White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95 CHIEVEN/USIND # 2576	DRIVER: (SIGNATURE)	THIS WILE GERTIFY that the bove Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR STRUCT RESPESSIVES AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXCEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976. AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS, REMARKED, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS' OR GEOTHER MAL ENERGY.	VOLUME OF MATERIAL [] BBLS: JAVARD 2 : []	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:	CHARGE TO:	DATE: /- 23- \$ P VEHICLE NO .: DRIVER NO .:	LEASE NAME: Charles A. H-35	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. No. 14032 P.O. Box 1737 * Emice, NM 88231 (505) 394-2511
Willes-Sundance Condity-Sundance Accit/2 Cold-Transporter Revised 12/17/95 # 2576	DRIVER: ULT Canton Acres Contant Contant Contant	THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transport Statement at the above described location, and that it was tendered by the above described shipper, will certify that no additional materials were added to this load, and that the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WT THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, I FACILITY FOR DISPOSAL.	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH TH JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, . AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et se AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRLLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.	VOLUME OF MATERIAL [] BBLS	[] Production Water [] Drilling Fluids [] Completion Fluids [] Tank Bottoms [] Contaminated soil [] C-117 No.: [] Other Material: [] BS&W Content:		DATE: 6-23-99 VEHICLE NO .: DRIVER NO .:	TRANSPORTER COMPANY: Carry 1 - 3 J	LEASE OPERATOR/SHIPPER/COMPANY:	Sundance Services, Inc. (No. 140) P.O. Box 1737 * Eunice, NM 88231 (505) 394-2511



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

May 5, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 559 573 593

Carolyn Doran Haynes Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35-Ts22s-R37e Lea County, NM

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Rice Operating Company's (ROC) letter dated March 16, 1999 concerning the above captioned facility requesting approval to install a liner to prevent future infiltration from leaching remaining vadose zone water contaminants into under-lying shallow ground water. In order to properly evaluate ROC's request the NMOCD requires the following information:

- 1. Please provide a topographic plot plan drawing of the site defining the areal extent of the contamination and vertical cross-sections showing the isoconcentration values of the remaining salts in the vadose zone. Please calculate the estimated remaining mass of contamination and report this value in pounds (lbs).
- 2. Please provide to NMOCD the engineering data sheets or product bulletins for the proposed liner. Please provide the engineering design, the effective life of the liner, installation drawing and selection criteria for the liner.
- 3. Please explain how ROC will address lateral migration of moisture under the liner. NMOCD's concern is that possible horizontal infiltration (absorption) may occur due to moisture run-on/off.

Carolyn Haynes Z 559 573 593 May 5, 1999 Page 2

- 4. Please provide a plan describing how the buried liner and contaminated soils below the liner will be protected in the foreseeable future. Please include a plan as to how future owners of the property will be advised of the buried material, i.e. deed recording, permanent markers, etc. Please provide proof of ownership of the property.
- 5. Please include a plan to describe how ROC will monitor the buried contamination in order to ensure that contaminants will not cause the groundwater standards to be exceeded in the foreseeable future.
- 6. Please provide verification of all waste disposed of off-site, such as disposal manifest, etc.
- 7. Please provide information concerning the plugging of the soil boring.

Please submit the above information to the NMOCD by June 30, 1999.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne (in

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Hobbs Office

e side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we	can return this	l also wish to receive the following services (for an outro foc)
on the revers	card to you. ■ Attach this form to the front of the mailpiece, or on the back if spac permit. ■ Write <i>'Return Receipt Requested'</i> on the mailpiece below the articl ■ The Return Receipt will show to whom the article was delivered an delivered.	e does not e number. d the date	 Addressee's Address Restricted Delivery Consult postmaster for fee.
RN ADDRESS completed c	3. Article Addressed to: RICE OPERATING CO. 122 WEST TAYLOR- HOBBS, NM 88240 ALL: CAROLYN HAYMES	4a. Article N Z 55 4b. Service 1 X Registere Express I Return Rec 7. Date of De	umber 9573593 Fype ed Mail Insured ceipt for Merchandise OD elivery IS
Is your <u>RETU</u>	5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X D D M D PS Form 3811 . December 1994	8. Addressee and fee is	o's Address (Only if requested paid)



RICE Operating Company

122 West Taylor • Hobbs, NM 88240 Phone: (505) 393-9174 • Fax: (505) 397-1471

March 16, 1999

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Mr. Wayne Price State of NM Energy and Minerals Dept. Oil Conservation Division 2040 South Pacheco St. Santa Fe, NM 87505

E B E U MAR | 8 1999 أسيس . ب محم محمد المعد STATION DIVERSION

Re: Aboveground Redwood Tank Removal, SWD H-35 Blinebry Drinkard Salt Water Disposal System NE/4, Section 35-Ts22s-R37e, Lea County, NM

Mr. Price:

Upon your request of January 23, 1999, Rice Operating Company prepared a work plan to determine the vertical extent of chloride impact to the vadose zone at the above referenced facility. On March 6, 1999, the chloride concentration of soil was delineated in the vadose zone that was directly beneath the redwood tank (removed March, 1998.) The Hobbs District 1 Office of OCD was notified 48 hours in advance, but no representative came to the site while boring and sampling operations were in progress.

The ground water in this area is 60-65' deep, according to the nearest water well identified by the State Engineer's Office. Attached is the March 6, 1999, drilling log with applicable subsurface lithology, analyticals, and remarks. The total boring depth was 34 feet. Chloride levels were field tested, with levels below 250ppm verified by laboratory testing. At 30 feet, the chloride level was 240ppm (field), 111 ppm (lab); TPH 29ppm. At 34 feet, the chloride level was 60ppm (field), 111ppm (lab); and TPH was 19.8ppm. Laboratory results are attached.

Considering the concentration of chlorides in the vadose zone:

- A. > 250ppm chlorides within 50 feet of groundwater
- B. Normal rainfall level could conceivably afford the possibility of chlorides leaching 40 feet deeper and into the groundwater during the next 10,000 years.
- C. Rice Operating proposes to eliminate the progression of moisture and therefore chlorides to groundwater by installing a buried, impervious layer of 40-mil polyethylene fabric over the affected area (50' X 50'). The fabric will be graded to allow moisture flow away from the area.
- D. The surface above the liner will be defined by concrete markers at the center and corners, with an identification etched in the center marker.

Rice Operating Company submits this additional information pursuant to NMOCD's request and again petitions for closure plan approval for the redwood tank formerly located at this facility. Attached is a copy of the initial closure request made by F. Wesley Root, including the previously submitted analytical data.

If this closure plan is acceptable, the impenetrable layer will be installed and then the Pit Remediation and Closure form will be completed and submitted. No further work will be performed at this site until the NMOCD responds to this request.

If you have any questions, please call.

Carolyn Doran Haynes

Carolyn Doran Haynes Operations Engineer

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N 3

- Enclosures: Drilling Log Laboratory Results and Chains-of-Custody Pit Inventory Form
- Cc: KH, file, Ms. Donna Williams
 State of NM Energy and Minerals Dept. Oil Conservation Division
 P. O. Box 1980
 Hobbs, NM 88240

				Well No.	Date Dri	Driller:	Logged by:
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	11	T	.11:			 ♦ Chloride – 1,766 ppm 	
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	38					Field Screen Laboratory Result	
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<u> </u> '	40				1	Bentonite Seal	1

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

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

Receiving Date: 03/08/99 Reporting Date: 03/09/99 Project Number: NOT GIVEN Project Name: SWD H-35 Project Location: LEA CO. NM Sampling Date: 03/06/99 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE:	03/08/99	03/08/99
H4050-1 B-1 (30-31')	29.0	111
H4050-2 B-1 (33-34')	19.8	111
Quality Control	244	1335
True Value QC	240	1319
% Recovery	102	101
Relative Percent Difference	3.2	1.5
METHODS: EPA 600/4-79-02	418.1	325.3

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

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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.

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<u>Pierict I</u> - (305) 393-6161 <u>P. O. Box 1960</u> Hobbs. NM 88241-1980 <u>District II</u> - (505) 748-1283 811 5. First Arestin. NM 88210 <u>District III</u> - (505) 334-6178 1000 Rio Bezzot Road Aztac. NM 87410 <u>District IV</u> - (505) 827-7131

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New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Submit Original Plus I Copy to Santa Fe

1,+

Originated 6/27/97

	PIT INVENTORY FORM
Operator: _	RICE OPERATING COMPANY
Address:	122 WEST TAYLOR HOBBS, NEW MEXICO 88240
Phone Numb	a. (505) 393-9174
Previous Ope	rator(s): <u>Agua Operating</u>
s the pit per	nitted: Yes 🗌 No 📝
Unit Letter:	H Section: 35 Township: 22S Range: 37E
County:	Lea County
ocation Nar	Blinebry Drinkard Salt Water Disposal Well H-35
Number of we	Histothepit: System Terminal Tank (Varies)
otal daily vol It Type:	urne (in barrels) to the pit:
iae Drip, BS&V	V/Tank Borrows, Compressor, Figure, Washdows, or other)
what types of	W/Tank Bottoms. Compressor. Figure, Washdows. or other) wastes are accepted in the pit (Exempt, Non-exempt, Both, None):Exempt(production_water)
ver Drip, BS&V Vhat types of it age (years):	W/Tank Bottoms, Compressor, Pigging, Washdown, or other) wastes are accepted in the pit (Exempt, Non-exempt, Both, None): <u>Exempt(production water)</u> 30
we Drp. BS&V Vhat types of it age (years): the pit lined	W/Tank Borooms. Compressor. Figure, Washdown, or other) wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) 30 WX or unlined
we Drp. BS&V Vhat types of it age (years): the pit lined ype of liner (1	<pre>W/Tank Borooms. Compressor. Pigging, Washdown, or other) wastes are accepted in the pit (Exempt, Non-exempt, Both, None): Exempt(production water) 30 Will or unlined None, Synthetic, Clay): Redwood tank resting on concrete pad</pre>
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A pix is defined as any below grade or parface feature which receives any materials other than fresh water.



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

January 23, 1999

Mr. Wesley Root Rice Operating Company 122 West Taylor Hobbs, New Mexico 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35-Ts22s-R37e Lea County, NM

Dear Mr. Root:

New Mexico Oil Conservation Division (NMOCD) is in receipt of the closure plan for the above referenced facility. After reviewing the plan it appears the remaining concentration of chlorides in the vadose below the site are high (i.e. 1766 ppm). Since there is shallow groundwater in the area please determine the vertical extent of the chlorides below the site.

Please submit this information by March 22, 1999.

Please notify the OCD Hobbs office 48 hours in advance of any significate investigation activity.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Thepe / min

Wayne Price-Environmental Bureau

cc: OCD Hobbs

file: O/envr../word/wa../riceh35

RICE Operating Company

122 West Taylor HOBBS, NEW MEXICO 88240 (505) 393-9174

July 8, 1998

Mr. Wayne Price State of New Mexico Energy and Minerals Department Oil Conservation Division P. O.. Box 1980 Hobbs, NM 88240

Re: Above-ground Redwood Tank Removal Salt Water Disposal Facility H-35 Blinebry Drinkard Salt Water Disposal System Northeast 1/4, Section 35 of T22S R37E, Lea County, New Mexico

Mr. Price:

Rice Operating Company (ROC) has completed the removal of the redwood tank formerly located at the above-referenced facility. The work was performed during the course of normal maintenance operations when ROC replaced the tank with two above-ground fiberglass tanks. This report was prepared to document our actions as you requested during your site visit on April 17, 1998.

The redwood tank was used to store produced water prior to disposal by subsurface well injection. The 850 barrel tank was 28 feet in diameter and 8 feet tall. Once the tank had been removed from the location, the area was visually inspected for evidence of significantly contaminated soil and this material was dug out with a backhoe. The resulting excavation was approximately 36 feet in diameter and 4 feet deep. The excavated material, approximately 240 lcys (loose cubic yards), was staged within a bermed area located on the northwest corner of the site.

Samples of the material from the floor and sides of the excavation were collected to document the vertical extent of adverse impact, if present. The samples were field screened for volatile organic compounds (VOCs) with a HNU DL-101 photoionizer detector (PID) using the NMOCD (New Mexico Oil Conservation Division) headspace method. Field screening results recorded VOC levels of less than 1 ppm (part per million) in all samples. Since the PID results were well below 100 ppm (typical NMOCD recommended remediation action level), no samples were submitted for BTEX (benzene, toluene, ethylbenzene, and total xylenes) analysis.

The sample collected from the deepest point of the excavation was submitted to Cardinal Laboratories for total petroleum hydrocarbon (TPH) analysis using EPA Method 418.1. Sample Onsite-1 was obtained from a depth of 4 feet below ground surface and recorded a TPH level of less than 10 ppm. The PID and TPH results confirmed our original estimate that we had delineated and removed any hydrocarbon-impacted soils during excavation.

Eight random samples (ES-1 through ES-8) were collected from the staged material to establish baseline conditions and determine treatment/disposal options. The samples were field screened for VOCs with a PID using the NMOCD headspace method. The PID results ranged from 25 ppm to 230 ppm with the calculated average for the material equal to 124 ppm.

Since one of the treatment options we were evaluating was to landfarm the material on-site, three of the random samples (ES-3, ES-5, and ES-8) were submitted to Cardinal Laboratories for chloride analysis. Samples ES-3, ES-5, and ES-8 recorded chloride levels of 4,960 ppm, 4,150 ppm, and 4,960 ppm, respectively.

In addition, a sample was collected from the center of the excavation at a depth of 7 feet below ground surface and submitted for chloride analysis to document soil concentrations. Sample Onsite-2 recorded a chloride level of 2,600 ppm and a PID reading of less than 1 ppm.

In order to develop a vertical profile of chloride levels, a trench was dug in the bottom of the excavation using a backhoe. Work was stopped when indurated caliche was encountered at a depth of 11 feet below ground surface. A soil sample was collected at this point for headspace screening and chloride analysis. Sample BH-11 recorded a chloride level of 1,766 ppm and a PID reading of less than 1 ppm.

Due to the limited surface area available, treatment options such as landfarming or blending the impacted soil with clean dirt were determined to be uneconomical solutions for the site. The most practical method to clean up the site was to haul the impacted material to a NMOCD permitted facility for disposal and backfill the excavation with select material purchased from a commercial pit.

A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc.. The former tank location was backfilled with select material and the ground surface contoured to match the existing location pad.

Summary

- 1. The source of soil contamination was the redwood tank and this source has been eliminated.
- The maximum vertical extent of hydrocarbon-impact was 4 feet below ground surface. In-place soil below this depth recorded PID readings less than 1 ppm and TPH levels less than 10 ppm. The impacted soil was removed during the excavation of all significantly contaminated soil based on visual identification.
- 3. Chloride levels decreased rapidly with depth from approximately 4,700 ppm in the excavated soil to less than 1,800 ppm at a depth of 11 feet below ground surface.
- 4. A total of 276 lcys of impacted soil and concrete debris was transported to the Parabo Disposal Facility operated by Sundance Services, Inc. for disposal.
- 5. The excavation was backfilled with select material and the former tank location was shaped to grade.

If you have any questions please feel free to call.

Sincerely,

7. Wesley Root

F. Wesley Root Projects Manager

Enclosures: Laboratory Analytical Results Chains-of-Custody

cc. KH, JM, File



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 112 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471



Receiving Date: 03/19/98 Reporting Date: 03/24/98 Project Number: NOT GIVEN Project Name: B.D. REDWOOD Project Location: SEC 35-22-37 Analysis Date: 03/24/98 Sampling Date: 03/12/98 Sample Type: SOIL Sample Condition: COOL, INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID

TPH (mg/Kg)

H3517-1	ON SITE 1	<10

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Quality Contro	bl	194
True Value Q	C	200
% Recovery		97.0
Relative Perc	ent Difference	2.1

METHOD: EPA 418.1, 3510, 3540, or 3550; Infrared Spectroscopy

AR Cook

PLEASE STATE Analysis 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 mose 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.

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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

SAMPLE ID

Cl⁻ (mg/Kg)

H3597-1	ON SITE 2	2600
Quality Control		476
True Value QC		500
% Recovery		95.0
Relative Percent	Difference	0.8



METHOD: Std. Methods 4500 CI⁻B

NOTE: Analysis performed on an aqueous extract.

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Date

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t Name:	REDWOOd REMOUAL	Phone	#	9			
t Location:	H-35-22-3>	Fax #:		49 3			
LAB USE ONLY	/W	TRIX PI	RES. SAMPLING	1			
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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

SAMPLE ID

CI⁻ (mg/Kg)

H3599-1	ES-3	4960
Quality Contro	1	476
True Value QC	>	500
% Recovery		95.0
Relative Perce	0.8	



METHOD: Std. Methods 4500 Cl⁻B

NOTE: Analysis performed on an aqueous extract.

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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. The begin and the 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.

CUSTODY AND ANALYSIS REQUEST	ANALYSIS REQUEST										Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of involce,	and at costs of collections, including attomey's fees. Additional Fax #:	
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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

Cl⁻ (mg/Kg)

4500 Cl B

H3598-1 E	S-5	4150
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Quality Control		476
True Value QC		500
% Recovery		95.0
Relative Percent Diffe	0.8	



NOTE: Analysis performed on an aqueous extract.

HT for asily

Date

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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JOHN L. MOODY, JR. 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 04/22/98 Reporting Date: 04/24/98 Project Number: H-35 (B.D. SWD) Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 04/24/98 Sampling Date: 04/21/98 Sample Type: SOIL Sample Condition: INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER

METHOD: Std. Methods

SAMPLE ID

Cl⁻ (mg/Kg)

4500 Cl B

H3600-1	ES-8	4960
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Quality Control		476
True Value QC		500
% Recovery	· · ·	95.0
Relative Percent	t Difference	0.8



NOTE: Analysis performed on an aqueous extract.

njeff fly Cook

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, incluring 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. The 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.

Nav.					CHAIN-OF-CU	STODY AND ANAL	YSIS REQUEST	.
	2111 Beechwood, Abil 2015, 673 7004 523	UKIES, INC. Ilene, TX 79603 101 Es	ast Marland, Hot	obs, NM 8824(,	ŕ
Company Name:	BICE OPENATIN	(cnc) nzni-cia (cie)	393-2320 FAX (50	15) 393-24 <i>1</i> 6		PRICESS REOTIEST	ageof	Г
Project Manager:	Jehn 1. Mood	1 22 h	BILLTO	PO #:				T
Address: 122	W TAYLOR		Company: 5/	AME	\$			
city: Hebb	State: NMZI	1p: \$8240	Attn:		20			
Phone #: 39	13-9174		Address:		-2			
Fax#: 397	-1471		Clty:					
Project #: H	35 Project Owne	Br. B.D. SWD	State:	Zlp:	- +			
Project Name:	REDWOOOL REN	14UM	Phone #:					(
Project Location:	4-35-22-3>		Fax #:		709			
FOR LAB USE ONLY		MATRIX	PRES. S	AMPLING	7			
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS AROUNDWATER WASTEWATER SOIL OIL SLUDGE	ם עכום: סבו רכססר סדואבע : סדואבע :	ATE	<u> ولم احد الحجم المجمع المجمع المحمد المعمد المعمد المعمد المعمد المعمد المعمد المعمد المعمد المعمد المعمد الم</u>			
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PLEASE NOTE: Lisbility and Dam	ages. Cardnafs fability and clear's exclusiv	ve remedy for any dalim analize base		And to the second second second second second second second second second second second second second second se				
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Sampler Kellinguish	ed: Date: Date: Time:	-22-95 Received By:		Phone Re Fax Resul REMARKS	sult <u>D Yes D No</u> Addit t: X Yes D No s:	onal Fax #:		
Relinquished By:	Date: Time:	Reogived BV: J	ab Staff)					
Delivered By: (C Sampler - IIDS - Bu	ircle One)	Cool Intact	on CHECKED B (Initials)	:				
	ls - Uner:							

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: F. WESLEY ROOT 122 W. TAYLOR HOBBS, NM 88240 FAX TO: 505-397-1471

Receiving Date: 06/16/98 Reporting Date: 06/16/98 Project Number: H-35 Project Name: REDWOOD REMOVAL Project Location: H-35-22-37 Analysis Date: 06/16/98 Sampling Date: 06/16/98 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER

SAMPLE ID

CI (mg/Kg)

H3690-2 BH 11	1766
Quality Control	1334
True Value QC	1355
% Recovery	98.4
Relative Percent Difference	1.6



METHOD: Std. Methods 4500 Cl⁻B

NOTE: Analysis performed on an aqueous extract.

Gayle A. Potter, Chemist

06/17/98 Date

PLEASTROM Lightitized 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.

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	2111 Beechwood, Abilene (915) 673-7001 Fax (915	TX 79603 101 E	ast Marland, Hob 303-3236 Ecv. /50	ibs, NM 88240				-	
Company Name:	Rice A It' Co.	loop own out to		0/+7-060 fc			Page of of		_
Project Manager:	F. I. a. I.a. R. +	4N4	RULL TVD	·# 00		NALYSIS REQUEST			
Address: 122	Wast TAYLOR		Company: ROC						
city: Hobbs	State: NM ZIp:	88240	Attn: F. I.h. I.	Rot t				····· ·	
Phone #: 505-3	393-9174		Address: 12.2 la	1, TAL/20				e	
Fax #: 505-3	107-147		City: Habba	401 4					
Project #: H~3	3 5 Project Owner: 1	3D 5WD	State: NM	ZID: 88240					
Project Name:	Redwood Removal		Phone #: 505 -	393-9174					Ű.
Project Location:	H-35-22-37		Fax #: 505-3	1641-68					4
FOR LAB USE ONLY		MATRIX	PRES. S/	AMPLING	23				
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PLEASE NOTE: LISHIN and Dam	mages. Cardnat's lability and clent's exclusive remet	by for any claim arising whether base	ed in contract or tort, shall be limit	ited to the amount cald by the of	and for the				
analyses. All claims including thos service. In no event shall Cardnal affiliates or encourse and base of a	se for heighgence and any other cause whatsoever sh ut be liable for incidental or consequental damages, in a consequent of the second second second second second second second second second second second second second	tal be deemed waived unless made cluding without Imitation, business in	in writing and received by Cardin Kemuctione, lose of use, or lose (val within 30 days after completion of profits incurred by client, its s	on of the applicable ubsidaries,	remested to the set of the state of 24% per ar 30 days past due at the rate of 24% per ar and at costs of collections included at one	tharged on all accounts more t amount from the original data of move from	than if invoice,	
Sampler Relinquish	ied:	Ar by Cardnal, regardess of wheth	er such claim is based upon any	of the above stated reasons or	otherwise.		·enple fail		
F. Waller	Root <u>Time: (3:0</u>	-48 Q		Fax Result: REMARKS:	K Yes D No	inal Fax #:			
Relinquished By:	Date:	- greceived Bv: 1	Lab Staff)					· .	
Delivered Bv: (C	Circle One)	Sample Conditi	on 1 CHECKED B						
Sampler - UPS - B	us - Other:		s (Initials)						
† Cardinal can	not accept verbal changes. Ple	ase fax written chanç	ges to 915-673-702(].	

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