

1R - 426-7

REPORTS

DATE:

7/29/2003

1R-426-7

BD Grizzoli EOL

DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Blinebry-Drinkard	Grizzel EOL	G	8	22 S	37 E	Lea	Length	Width	Depth
							7	5	6

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Lucy Flowers OTHER _____

Depth to Groundwater 71 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/8/2003 Date Completed 4/22/2003 OCD Witness No

Soil Excavated 400 cubic yards Excavation Length 30 Width 35 Depth 12 feet

Soil Disposed 132 cubic yards Offsite Facility Sundance Location Eunice, New Mexico

FINAL ANALYTICAL RESULTS: Sample Date 4/14/2003 Sample Depth 12' bgs

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.025	<0.025	0.026	0.151	125	1290	1490
BOTTOM	<0.025	<0.025	<0.025	0.052	75.4	1540	3170
REMEDIATED	<0.025	<0.025	0.053	0.246	228	2570	656

General Description of Remedial Action: A 30' x 35' x 12' bgs excavation was dug out around the junction site. The box is located about 50' South of an active production facility.

The entire vicinity of the box and battery is surrounded by hardpan. As the junction was delineated, TPH NMOCD guidelines were not met. A 20 mil poly liner

was installed at the bottom of the hole at 12' and extended up the walls to inhibit further impact migration. The liner was then backfilled with the excavated soil and contoured to the surrounding terrain. A new water-tight junction box has been built over the location. The site has been re-seeded with native vegetation and will be monitored for growth.

ADDITIONAL EVALUATION IS MEDIUM PRIORITY.

cc: lab results, photos, diagrams, chloride graph, disposal tickets

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	4	200
	10	400
	12	500
17' N	12	3400
17' S	12	1250
15' E	12	2900
15' W	12	2050
Wall Comp.	n/a	1200
Bottom Comp.	12	2700
Remed. Comp.	n/a	550

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

DATE 7/29/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Projects Scientist

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

CHLORIDE CONCENTRATION CURVE

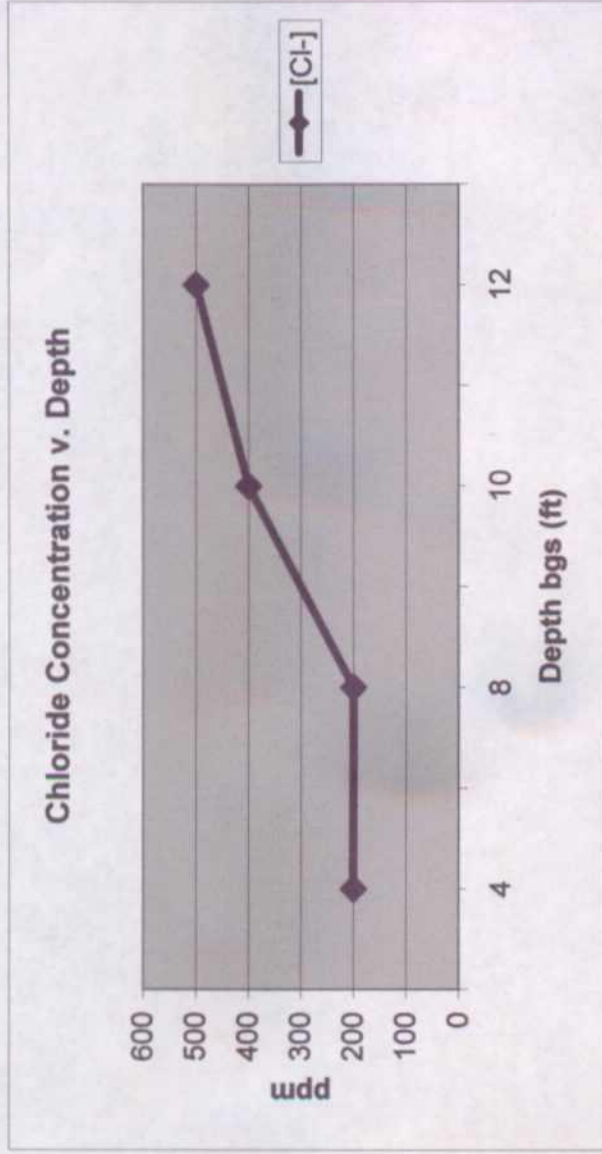
RICE Operating Company

BD Grizzel EOL

UL 'G', Sec. 8, T22S, R37E

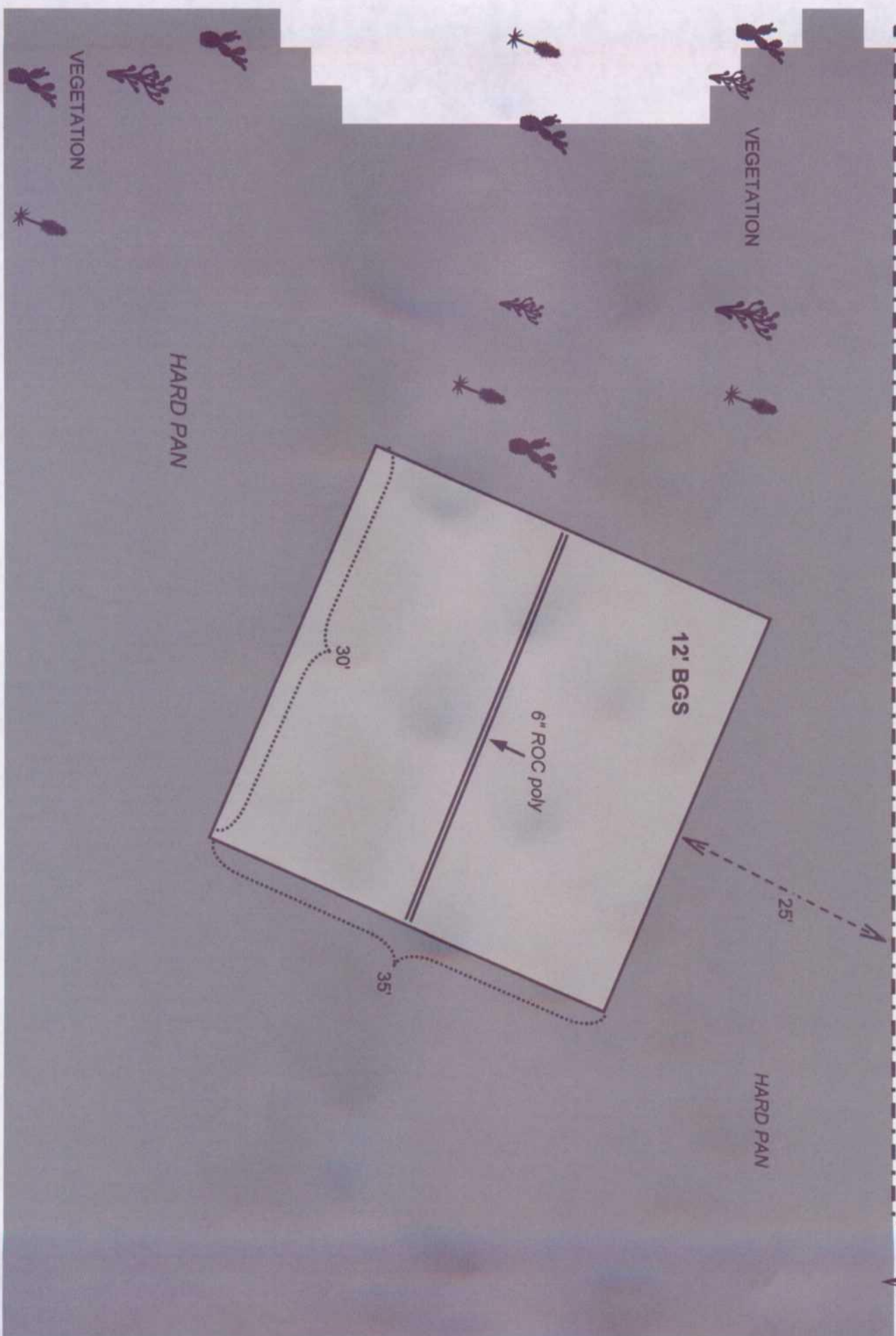
Depth bgs (ft)	[Cl-] ppm
4	200
8	200
10	400
12	500

Groundwater = 71 ft

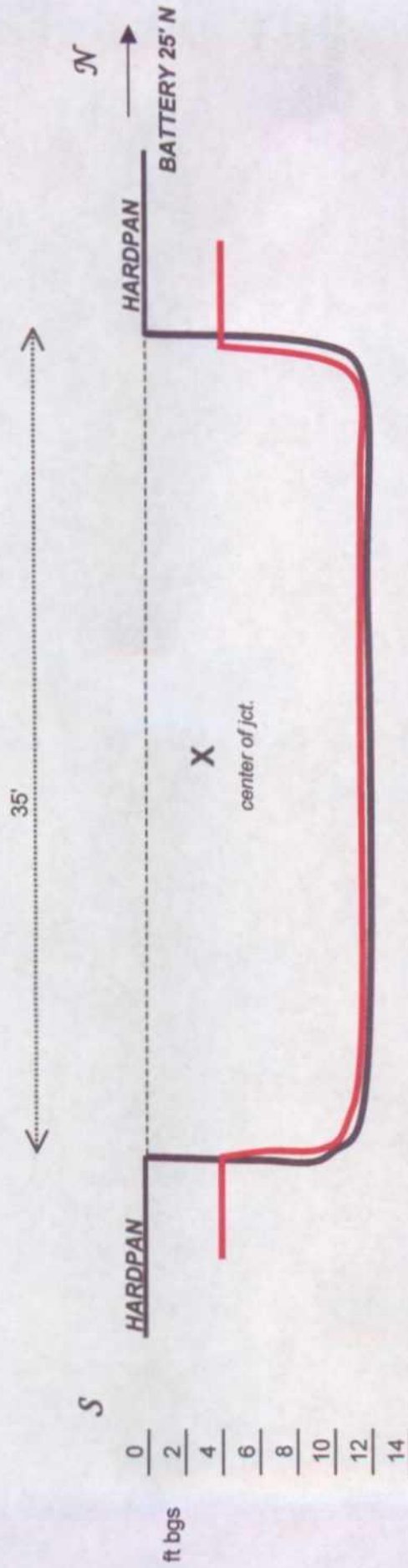
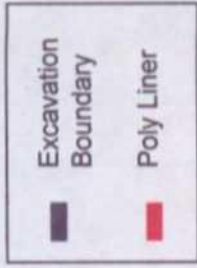


BD GrizzeL EOL (not to scale)
30' X 35' X 12' Excavation

PRODUCTION BATTERY



**BD Grizzel EOL
Impact Excavation
Cross-Section**



SURFACE HAS BEEN RE-SEEDED WITH NATIVE VEGETATION

BD Grizzel EOL



30 x 30 x 12 ft Excavation



20 mil Poly Liner



Backfilling & Water-packing Excavation



Junction Box Construction



Completed Junction Box

May 16, 2003

BD Grizzel EOL

SEEDING



ANALYTICAL REPORT

Prepared for:

**Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240**

Project: Zia Grizzel

PO#:

Order#: G0306254

Report Date: 04/16/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0306254
Project:
Project Name: Zia Grizzel
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306254-01	5 pt. Bottom Comp. @ 12'	SOIL	4/14/03	4/14/03	4 oz glass	Ice
			11:00	17:00		
			Temp: 4 C			
			Rejected: No			
			<u>Lab Testing:</u>			
8015M						
8021B/5030 BTEX						
Chloride						
0306254-02	Wall Comp.	SOIL	4/14/03	4/14/03	4 oz glass	Ice
			11:00	17:00		
			Temp: 4 C			
			Rejected: No			
			<u>Lab Testing:</u>			
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306254
Project:
Project Name: Zia Grizzel
Location: BD

Lab ID: 0306254-01
Sample ID: 5 pt. Bottom Comp. @ 12'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/16/03 14:19	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	75.4	10.0
DRO, >C12-C35	1,540	10.0
TOTAL, C6-C35	1,615	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	98%	70	130
1-Chlorooctadecane	113%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0005235-02		4/15/03 16:53	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.027	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	91%	80	120
Bromofluorobenzene	96%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306254
Project:
Project Name: Zia Grizzel
Location: BD

Lab ID: 0306254-02
Sample ID: Wall Comp.

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/16/03 14:19	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	125	10.0
DRO, >C12-C35	1,290	10.0
TOTAL, C6-C35	1,425	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	19%	70	130
1-Chlorooctadecane	19%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0005235-02		4/15/03 17:12	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.026	0.025
p/m-Xylene	0.126	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	102%	80	120

Approval: Raland K. Tuttle 4-21-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306254
Project:
Project Name: Zia Grizzel
Location: BD

Lab ID: 0306254-01
Sample ID: 5 pt. Bottom Comp. @ 12'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3170	mg/kg	1	20	9253	4/15/03	SB

Lab ID: 0306254-02
Sample ID: Wall Comp.

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1490	mg/kg	1	20	9253	4/15/03	SB

Approval: Raland K. Tuttle 4-21-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306254

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005240-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306253-01	33	952	860	86.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306253-01	33	952	1000	101.6%	15.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005240-05		1000	760	76.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306254

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005235-02			<0.025		
Toluene-mg/kg		0005235-02			<0.025		
Ethylbenzene-mg/kg		0005235-02			<0.025		
p/m-Xylene-mg/kg		0005235-02			<0.025		
o-Xylene-mg/kg		0005235-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306253-02	0	2.77	2.78	100.4%	
Toluene-mg/kg		0306253-02	0	2.77	2.72	98.2%	
Ethylbenzene-mg/kg		0306253-02	0	2.77	2.72	98.2%	
p/m-Xylene-mg/kg		0306253-02	0	5.54	5.63	101.6%	
o-Xylene-mg/kg		0306253-02	0	2.77	2.71	97.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306253-02	2.78	2.77	2.84	102.5%	2.1%
Toluene-mg/kg		0306253-02	2.72	2.77	2.70	97.5%	0.7%
Ethylbenzene-mg/kg		0306253-02	2.72	2.77	2.64	95.3%	3.0%
p/m-Xylene-mg/kg		0306253-02	5.63	5.54	5.43	98.0%	3.6%
o-Xylene-mg/kg		0306253-02	2.71	2.77	2.56	92.4%	5.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005235-05		0.1	0.115	115.0%	
Toluene-mg/kg		0005235-05		0.1	0.113	113.0%	
Ethylbenzene-mg/kg		0005235-05		0.1	0.110	110.0%	
p/m-Xylene-mg/kg		0005235-05		0.2	0.230	115.0%	
o-Xylene-mg/kg		0005235-05		0.1	0.108	108.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306254

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005231-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306254-01	3170	500	3620	90.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306254-01	3170	500	3600	86.0%	0.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005231-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0306254

Project: Zia Grizzel

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
5 pt. Bottom Comp.	0306254-01	SOIL	04/14/2003	04/14/2003
Wall Comp.	0306254-02	SOIL	04/14/2003	04/14/2003

Surrogate recoveries on 8015 TPH are outside of control limits due to dilution (G0306254-02).

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Rel - CKJ Date: 4-21-03
Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

Fax: 915-563-1713

Project Manager:

Fax: 915-563-1713
Kristin Farris

Company Name

Kiel

Company Address:

182 w Taylor

City/State/Zip:

46 bbs, 11M 88x40

Sampler Signature:

Ex No.:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Zia Grizzle

Project #:

Project Loc:

82

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Sampler Signature:

 Fax No: _____

[illegible]

Special Instructions

Fax Results To Rice

Relinquished by:

inquired by:

Date	Time
------	------

Received by:

100

Date	Time
------	------

Relinquished by:

inquired by:

Date	Time
------	------

1

Date	4-14-03
Time	1:17 PM

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

Laboratory Comments:

Dec 4th

ANALYTICAL REPORT

Prepared for:

**Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240**

Project: Zia Grizzel EOL

PO#:

Order#: G0306329

Report Date: 04/29/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0306329
Project:
Project Name: Zia Grizzel EOL
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306329-01	Rem. Pile Comp.	SOIL	4/23/03 11:00	4/24/03 10:30	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp:	3.0 C		
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306329
Project:
Project Name: Zia Grizzel EOL
Location: BD

Lab ID: 0306329-01
Sample ID: Rem. Pile Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/24/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	228	50.0
DRO, >C12-C35	2570	50.0
TOTAL, C6-C35	2798	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	20%	70	130
1-Chlorooctadecane	17%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005320-02		4/24/03 19:19	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.053	0.025
p/m-Xylene	0.206	0.025
o-Xylene	0.040	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	102%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306329
Project:
Project Name: Zia Grizzel EOL
Location: BD

Lab ID: 0306329-01
Sample ID: Rem. Pile Comp.

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Chloride	656	mg/kg	1	20	9253	4/28/03	SB

Approval: Raland K. Tuttle 4-29-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306329

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005326-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306328-04	0	952	796	83.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306328-04	0	952	786	82.6%	1.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005326-05		1000	815	81.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306329

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005320-02			<0.025		
Toluene-mg/kg		0005320-02			<0.025		
Ethylbenzene-mg/kg		0005320-02			<0.025		
p/m-Xylene-mg/kg		0005320-02			<0.025		
o-Xylene-mg/kg		0005320-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306328-04	0	0.1	0.096	96.0%	
Toluene-mg/kg		0306328-04	0	0.1	0.093	93.0%	
Ethylbenzene-mg/kg		0306328-04	0	0.1	0.091	91.0%	
p/m-Xylene-mg/kg		0306328-04	0	0.2	0.186	93.0%	
o-Xylene-mg/kg		0306328-04	0	0.1	0.088	88.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306328-04	0	0.1	0.102	102.0%	6.1%
Toluene-mg/kg		0306328-04	0	0.1	0.099	99.0%	6.3%
Ethylbenzene-mg/kg		0306328-04	0	0.1	0.097	97.0%	6.4%
p/m-Xylene-mg/kg		0306328-04	0	0.2	0.199	99.5%	6.8%
o-Xylene-mg/kg		0306328-04	0	0.1	0.095	95.0%	7.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005320-05		0.1	0.107	107.0%	
Toluene-mg/kg		0005320-05		0.1	0.105	105.0%	
Ethylbenzene-mg/kg		0005320-05		0.1	0.100	100.0%	
p/m-Xylene-mg/kg		0005320-05		0.2	0.205	102.5%	
o-Xylene-mg/kg		0005320-05		0.1	0.095	95.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306329

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005346-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306331-01	372	500	851	95.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306331-01	372	500	868	99.2%	2.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005346-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0306329

Project: Zia Grizzel EOL

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Rem. Pile Comp.	0306329-01	SOIL	04/23/2003	04/24/2003

Surrogate recoveries on 8015M TPH are outside of control limits due to dilution (G0306329-01).

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Raland K. J. J. J.

Environmental Lab of Texas I, Ltd.

Date:

4-29-03

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Ferris

Project Name:

Zia Grizzle / EOL

Company Name

Rice

Company Address:

122 w Taylor

Project Loc:

22

City/State/Zip:

140665 NW 88240

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Sampler Signature:

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Sampler Signature:

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[illegible]

Special Instructions

Fax to Rice

Relinquished by:

Disinquinished by: 

Time

Date 4-23-03

Received by:

Received by: *Younis J. J. J.*
Received by FAX: *Pat S. J.*

Received by:

Date _____

—

Sample Containers Intact?
Temperature Upon Receipt:

Laboratory Comments:

—

—

Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66348
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL [] BBLs. [] YARD []		
<p>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.</p> <p>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.</p> <p><i>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.</i></p>		
DRIVER: _____ (SIGNATURE)		
FACILITY REPRESENTATIVE: _____ (SIGNATURE)		
<small>White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter Revised 12/27/95</small>		

Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66352
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL [] BBLs. [] YARD []		
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DRIVER: _____ (SIGNATURE)		
FACILITY REPRESENTATIVE: _____ (SIGNATURE)		
<small>White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter Revised 12/27/95</small>		

Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66355
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL [] BBLs. [] YARD []		
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DRIVER: _____ (SIGNATURE)		
FACILITY REPRESENTATIVE: _____ (SIGNATURE)		
<small>White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter Revised 12/27/95</small>		

Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66357
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL [] BBLs. [] YARD []		
<p>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.</p> <p>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.</p> <p><i>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.</i></p>		
DRIVER: _____ (SIGNATURE)		
FACILITY REPRESENTATIVE: _____ (SIGNATURE)		
<small>White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter Revised 12/27/95</small>		

Sundance Services, Inc. ... 66360 <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>			
LEASE OPERATOR/SHIPPER/COMPANY:			
LEASE NAME:			
TRANSPORTER COMPANY:		TIME: AM/PM	
DATE:	VEHICLE NO.:	DRIVER NO.:	
CHARGE TO:			
TYPE OF MATERIAL			
<input type="checkbox"/> Production Water	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Completion Fluids	
<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Contaminated soil	<input type="checkbox"/> C-117 No.:	
<input type="checkbox"/> Other Material:	<input type="checkbox"/> BS&W Content:		
Description: _____			
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>			
<small>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.</small>			
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DRIVER: _____ (SIGNATURE)			
FACILITY REPRESENTATIVE: _____ (SIGNATURE)			
<small>White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95</small>			

Sundance Services, Inc. ... 66361 <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>			
LEASE OPERATOR/SHIPPER/COMPANY:			
LEASE NAME:			
TRANSPORTER COMPANY:		TIME: AM/PM	
DATE:	VEHICLE NO.:	DRIVER NO.:	
CHARGE TO:			
TYPE OF MATERIAL			
<input type="checkbox"/> Production Water	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Completion Fluids	
<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Contaminated soil	<input type="checkbox"/> C-117 No.:	
<input type="checkbox"/> Other Material:	<input type="checkbox"/> BS&W Content:		
Description: _____			
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>			
<small>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.</small>			
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FACILITY REPRESENTATIVE: _____ (SIGNATURE)			
<small>White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95</small>			

Sundance Services, Inc. ... 66365 <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>			
LEASE OPERATOR/SHIPPER/COMPANY:			
LEASE NAME:			
TRANSPORTER COMPANY:		TIME: AM/PM	
DATE:	VEHICLE NO.:	DRIVER NO.:	
CHARGE TO:			
TYPE OF MATERIAL			
<input type="checkbox"/> Production Water	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Completion Fluids	
<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Contaminated soil	<input type="checkbox"/> C-117 No.:	
<input type="checkbox"/> Other Material:	<input type="checkbox"/> BS&W Content:		
Description: _____			
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>			
<small>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.</small>			
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DRIVER: _____ (SIGNATURE)			
FACILITY REPRESENTATIVE: _____ (SIGNATURE)			
<small>White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95</small>			

Sundance Services, Inc. ... 66490 <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>			
LEASE OPERATOR/SHIPPER/COMPANY:			
LEASE NAME:			
TRANSPORTER COMPANY:		TIME: AM/PM	
DATE:	VEHICLE NO.:	DRIVER NO.:	
CHARGE TO:			
TYPE OF MATERIAL			
<input type="checkbox"/> Production Water	<input type="checkbox"/> Drilling Fluids	<input type="checkbox"/> Completion Fluids	
<input type="checkbox"/> Tank Bottoms	<input type="checkbox"/> Contaminated soil	<input type="checkbox"/> C-117 No.:	
<input type="checkbox"/> Other Material:	<input type="checkbox"/> BS&W Content:		
Description: _____			
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>			
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FACILITY REPRESENTATIVE: _____ (SIGNATURE)			
<small>White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter Revised 12/27/95</small>			

Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66493
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>		
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Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66495
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>		
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Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66502
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>		
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Sundance Services, Inc. <small>P.O. Box 1737 • Eunice, NM 88231 (505) 394-2511</small>		66506
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME:		
TRANSPORTER COMPANY:		TIME: AM/PM
DATE:	VEHICLE NO.:	DRIVER NO.:
CHARGE TO:		
TYPE OF MATERIAL		
<input type="checkbox"/> Production Water <input type="checkbox"/> Tank Bottoms <input type="checkbox"/> Other Material:	<input type="checkbox"/> Drilling Fluids <input type="checkbox"/> Contaminated soil <input type="checkbox"/> BS&W Content:	<input type="checkbox"/> Completion Fluids <input type="checkbox"/> C-117 No.:
Description:		
VOLUME OF MATERIAL <input type="checkbox"/> BBLs. : <input type="checkbox"/> YARD : <input type="checkbox"/>		
<p>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.</p> <p>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.</p> <p><i>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.</i></p> <p>DRIVER: _____ (SIGNATURE)</p> <p>FACILITY REPRESENTATIVE: _____ (SIGNATURE)</p> <p><small>White-Sundance Canary-Sundance Acc#1 Pink-Sundance Acc#2 Gold-Transporter Revised 12/27/95</small></p>		