

1R - 426-56

REPORTS

DATE:

2/05/2002

IR-426-56

**FINAL
REPORT**

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
BD	N-16-1	N	16	21S	37E	LEA	10	10	4

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER _____ MILLARD DECK _____ OTHER _____

Depth to Groundwater 64 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 1/2/2002 Date Completed 1/4/2002 OCD Witness NO

Soil Excavated 52 cubic yards Excavation Length 20 Width 12 Depth 6 feet

Soil Disposed 40 cubic yards Offsite Facility SUNDANCE Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 1/4/2002 Sample Depth 6'

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	0.03	<0.025	0.038	<10	52	1420
BOTTOM	<0.025	0.028	<0.025	<0.025	<10	219	2480

General Description of Remedial Action: Delineated vertical extent to 16' bgs and

impact from chlorides declined from 3000 ppm at 7' to 1100 at 16' bgs, which indicates chlorides

probably stopped before reaching groundwater. Delineated lateral extent and installed compacted clay barrier to inhibit vertical transmissivity and water tight junction box. Backfilled with blended soil at <1000 ppm chlorides. Natural attenuation will remediate remaining hydrocarbon.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	4'	1300
BOTTOM	6'	2400
Vertical Trench	7'	3000
	11'	2650
	16'	1100
Blended Soil	890 TPH	980

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

DATE February 5, 2002 PRINTED NAME D. E. Anderson

SIGNATURE *D. E. Anderson* TITLE Project Leader - Environmental

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RE ENVIRONMENTAL
ATTN: DEREK ROBINSON
P.O. BOX 13418
ODESSA, TEXAS 79768-3418
FAX: 366-0804
FAX: 505-397-1471 (Donnie Anderson)

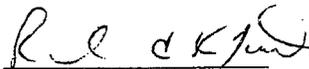
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3.5 deg C
Project Name: Rice Operating
Project #: Donnie Anderson
Project Location: N-16-1 Vent

Sampling Date: 01/04/02
Receiving Date: 01/04/02
Analysis Date: 01/07/02

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0202344-01	Wall Composite 4 pt.	<10	52
0202344-02	Bottom Composite	<10	219

QUALITY CONTROL	545	530
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	109	106
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	52
SPIKE	582	533
SPIKE DUP	544	530
% EXTRACTION ACCURACY	114	100
BLANK	<10	<10
RPD	6.75	0.56

Methods: SW 846-8015M


Celey D. Keene
Raland K. Tuttle

1-09-02
Date

ENVIRONMENTAL LAB OF , INC.

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ODESSA, TEXAS 79768-3418
FAX: 366-0804
FAX: 505-397-1471 (Pat MccSaland)

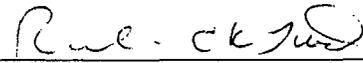
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3.5 deg C
Project Name: Rice Operating
Project #: Donnie Anderson
Project Location: N-16-1 Vent

Sampling Date: 01/04/02
Receiving Date: 01/07/02
Analysis Date: 01/07/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202344-01	Wall Composite 4 pt.	<0.025	0.030	<0.025	0.038	<0.025
0202344-02	Bottom Composite	<0.025	0.028	<0.025	<0.025	<0.025

QUALITY CONTROL	0.102	0.099	0.095	0.206	0.099
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	102	99	95	112	111
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	0.041	<0.025	0.044	<0.025
SPIKE	0.108	0.112	0.107	0.229	0.111
SPIKE DUP	0.104	0.106	0.103	0.222	0.107
%EA	104	104	103	110	107
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	3.77	5.50	3.81	3.10	3.67

METHODS: EPA SW 846-8021B ,5030



Celey D. Keene
Raland K. Tuttle

1-08-02
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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ODESSA, TEXAS 79768-3418
FAX: 366-0804
FAX: 505-397-1471 (Donnie Anderson)

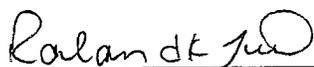
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3.5 deg C
Project Name: Rice Operating
Project #: Donnie Anderson
Project Location: N-16-1 Vent

Sampling Date: 01/04/02
Receiving Date: 01/07/02
Analysis Date: 01/07/02

ELT#	FIELD CODE	Chloride mg/kg
0202344-01	Wall Composite 4 pt.	1420
0202344-02	Bottom Composite	2480

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
SPIKED AMOUNT	454
ORIGINAL SAMPLE	24.2
SPIKE	491
SPIKE DUP	491
% EXTRACTION ACCURACY	103
BLANK	<5.00
RPD	0.00

METHODS: EPA SW 846-9253



Celey D. Keene
Raland K. Tuttle

1-08-02
Date

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

102 43308

LEASE OPERATOR/SHIPPER/COMPANY: AKC

LEASE NAME: AKC-1 E D

TRANSPORTER COMPANY: A L N

TIME:

AM/PM

DATE: 1-7-87

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: AKC

TYPE OF MATERIAL

Production Water

Tank Bottoms

Other Material:

Drilling Fluids

Contaminated soil

BS&W Content: _____

Completion Fluids

C-117 No.: _____

Description: oil cut

20.12 72.3 K372
24.4 B.D. 5000
ST N-11-1

VOLUME OF MATERIAL BBLs. _____ :

YARD 1000 :

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.

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.

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: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NC 48974

LEASE OPERATOR/SHIPPER/COMPANY: _____

LEASE NAME: 30 Sand

TRANSPORTER COMPANY: F

TIME: _____

AM/PM

DATE: 1-7-02

VEHICLE NO.: _____

DRIVER NO.: _____

CHARGE TO: 10 inc

TYPE OF MATERIAL

Production Water

Drilling Fluids

Completion Fluids

Tank Bottoms

Contaminated soil

C-117 No.: _____

Other Material:

BS&W Content: _____

Description: light

see 11.7 213 R 57E

VOLUME OF MATERIAL BBLs. _____ :

YARD 10 :

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.

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DRIVER: _____

(SIGNATURE)

FACILITY REPRESENTATIVE: _____

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter
Revised 12/27/95

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

NO 18875

LEASE OPERATOR/SHIPPER/COMPANY: W. J. Co

LEASE NAME: 113000 7-4

TRANSPORTER COMPANY: E. ...

TIME:

AM/PM

DATE: 7-7-02

VEHICLE NO.: ...

DRIVER NO.:

CHARGE TO: ...

TYPE OF MATERIAL

Production Water

Drilling Fluids

Completion Fluids

Tank Bottoms

Contaminated soil

C-117 No.: _____

Other Material:

BS&W Content: _____

Description: Hydrate

See Job Ticket # 113000

VOLUME OF MATERIAL BBLs. _____ :

YARD 10 :

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter

Revised 12/27/95