

**1R - 427 - 108**

# **REPORTS**

**DATE:**

**2-15-2001**



**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

427-108

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	J-9	J	9	20S	37E	LEA	Length 8'	Width 7'	Depth 5'

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ SW CATTLE CO \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater \_\_\_\_\_ 25 \_\_\_\_\_ feet NMOC SITE ASSESSMENT RANKING SCORE: \_\_\_\_\_ 20 \_\_\_\_\_

Date Started \_\_\_\_\_ 02/15/2001 \_\_\_\_\_ Date Completed \_\_\_\_\_ 02/15/2001 \_\_\_\_\_ OCD Witness \_\_\_\_\_ NO \_\_\_\_\_

Soil Excavated \_\_\_\_\_ 12 \_\_\_\_\_ cubic yards Excavation Length \_\_\_\_\_ 10 \_\_\_\_\_ Width \_\_\_\_\_ 11 \_\_\_\_\_ Depth \_\_\_\_\_ 5 \_\_\_\_\_ feet

Soil Disposed \_\_\_\_\_ 12 \_\_\_\_\_ cubic yards Offsite Facility \_\_\_\_\_ Sundance \_\_\_\_\_ Location \_\_\_\_\_ Eunice, NM \_\_\_\_\_

**FINAL ANALYTICAL RESULTS:** Sample Date \_\_\_\_\_ 02/15/2001 \_\_\_\_\_ Sample Depth \_\_\_\_\_ 5' \_\_\_\_\_

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 NMOC 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	< 0.005	<0.005	<0.005	<0.015	<50	<50	120
BOTTOM	< 0.005	< 0.005	< 0.005	<0.015	<50	124	299

**General Description of Remedial Action:** \_\_\_\_\_ Delineated vertical and lateral extent.

Installed compacted clay barrier and water tight junction box. High impacted soil was hauled to a permitted disposal facility. Backfilled with fresh soil. Natural attenuation will remediate the remaining hydrocarbon.

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
SIDEWALLS	2'	170
BOTTOM	5'	240

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

DATE \_\_\_\_\_ February 15, 2001 \_\_\_\_\_ PRINTED NAME \_\_\_\_\_ Chris Rodriguez \_\_\_\_\_

SIGNATURE \_\_\_\_\_ *Chris Rodriguez* \_\_\_\_\_ TITLE \_\_\_\_\_ Environmental Technician \_\_\_\_\_



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: JAMES STURGILL  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

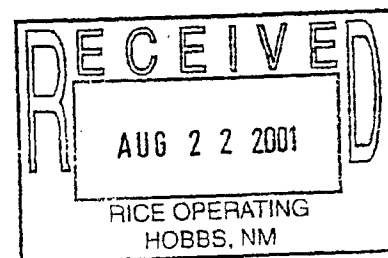
Receiving Date: 02/15/01  
Reporting Date: 02/19/01  
Project Number: J-9 BOTTOM & SIDES  
Project Name: J-9 BOX-SIDES AND BOTTOM  
Project Location: UJ-SEC9-T20-R37

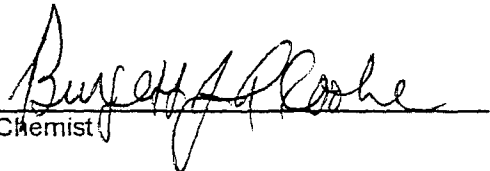
Sampling Date: 02/15/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC/AH

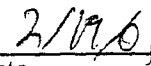
LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
		02/15/01	02/15/01	02/16/01
H5620-1	J-9 SIDES	<50	<50	120
H5620-2	J-9 BOTTOM	<50	124	299
Quality Control		728	778	1051
True Value QC		800	800	1000
% Recovery		91.0	97.3	105
Relative Percent Difference		2.3	2.5	6.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI/B

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



  
Chemist

  
Date

H5620A.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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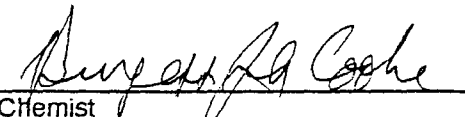
ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: JAMES STURGILL  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/15/01  
Reporting Date: 02/19/01  
Project Number: J-9 BOTTOM & SIDES  
Project Name: J-9 BOX-SIDES AND BOTTOM  
Project Location: UJ-SEC9-T20-R37

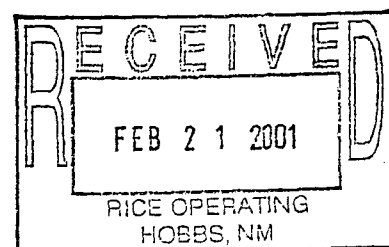
Sampling Date: 02/15/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		02/15/01	02/15/01	02/15/01	02/15/01
H5620-1	J-9 SIDES	<0.005	<0.005	<0.005	<0.015
H5620-2	J-9 BOTTOM	<0.005	<0.005	<0.005	<0.015
Quality Control		0.111	0.102	0.107	0.317
True Value QC		0.100	0.100	0.100	0.300
% Recovery		111	102	107	106
Relative Percent Difference		1.6	8.8	7.3	7.1

METHOD: EPA SW-846 8260

  
Chemist

21901  
Date



H5620B.XLS

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**ARDINAL LABORATORIES, INC.**

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page of

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Rice Operating Co.</b>		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>			
Project Manager: <b>JAMES STODOL</b>									
Address: <b>1820 Taylor St</b>		Company: <b>Rice</b>							
City: <b>Nobles</b>		Attn:							
Phone #: <b>(505) 343 9174</b>		Address:							
Fax #: <b>343 9174</b>		City:							
Project #: <b>J-9 Bottom Sides</b>		State: <b>NM</b>		Zip: <b>88240</b>					
Project Name: <b>J-9 Bottom Sides and Bottom</b>		State: <b>NM</b>		Zip: <b>88240</b>					
Project Location: <b>U-5-See 9-780 - R37</b>		Phone #:							
Sampler Name: <b>JAMES STODOL</b>		Fax #:							
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		MATRIX		PRESERV		SAMPLING	
		# CONTAINERS							
		GROUNDWATER		<div style="display: flex; justify-content: space-between;"> <div>             DATE TIME           </div> <div>             BTEX TPH 8015m P<sub>2</sub> </div> </div>					
		WASTEWATER							
		SOIL							
		CRUDE OIL							
		SLUDGE							
		OTHER :							
		ACID/BASE:							
		ICE / COOL							
		OTHER :							

**PLEASE NOTE:** Liability and Damages. Contractor's liability and owner's exclusive remedy for any claim arising under this contract shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Contractor within 30 days after completion of the applicable service. In no event shall Contractor 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 Contractor, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

**Terms and Conditions:** Invoices will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other		Received By: (Lab Staff) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) _____	
Date: <b>02/15/2001</b> Time: <b>4:55 PM</b>		Date: <b>02/15/2001</b> Time: <b>4:55 PM</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   Add'l Fax #: _____	
REMARKS: _____					

# Sundance Services, Inc.

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

38303

LEASE OPERATOR/SHIPPER/COMPANY: 4-9

LEASE NAME: AFE-692

TRANSPORTER COMPANY: 7

TIME:

AM/PM

DATE:

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: R

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content: \_\_\_\_\_

Description: WATER

VOLUME OF MATERIAL ☐ BBLs. \_\_\_\_\_ :

☒ YARD 12 :

☐ \_\_\_\_\_

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)

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

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	J-9	J	9	20S	37E	LEA	Length 8'	Width 7'	Depth 7'

LAND TYPE: \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER SW Cattle Company OTHER \_\_\_\_\_

Depth to Groundwater 25' feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 02/15/2001 Date Completed 02/15/2001 OCD Witness NONE

Soil Excavated 12 cubic yards Excavation Length 10' Width 11' Depth 4' feet

Soil Disposed 12 cubic yards Offsite Facility Sundance Disposal Location E.M.E.

**FINAL ANALYTICAL RESULTS:** Sample Date 02/15/2001 Sample Depth 5'

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	<0.005	<0.005	<0.005	<0.015	<50	<50	120
BOTTOM	<0.005	<0.005	<0.005	<0.015	<50	124	299

General Description of Remedial Action: No remediation work was required.  
Results did not exceed the NMOCD guidelines.

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	Cl
SIDEWALLS	2' BGS	170
BOTTOM	5' BGS	240

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

DATE 15-Feb-01 PRINTED NAME Chris Rodriguez  
SIGNATURE Chris Rodriguez TITLE ENVIRONMENTAL TECHNICIAN





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ANALYTICAL RESULTS FOR  
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ATTN: JAMES STURGILL  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

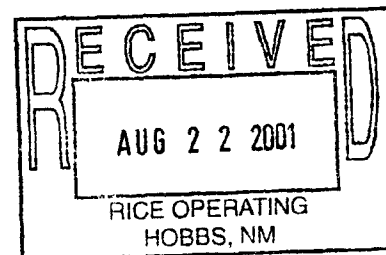
Receiving Date: 02/15/01  
Reporting Date: 02/19/01  
Project Number: J-9 BOTTOM & SIDES  
Project Name: J-9 BOX-SIDES AND BOTTOM  
Project Location: UJ-SEC9-T20-R37

Sampling Date: 02/15/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
	02/15/01	02/15/01	02/16/01
H5620-1 J-9 SIDES	<50	<50	120
H5620-2 J-9 BOTTOM	<50	124	299
Quality Control	728	778	1051
True Value QC	800	800	1000
% Recovery	91.0	97.3	105
Relative Percent Difference	2.3	2.5	6.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

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



*Burgess A. Roache*  
Chemist

*2/19/01*  
Date

H5620A.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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ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: JAMES STURGILL  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 02/15/01  
Reporting Date: 02/19/01  
Project Number: J-9 BOTTOM & SIDES  
Project Name: J-9 BOX-SIDES AND BOTTOM  
Project Location: UJ-SEC9-T20-R37

Sampling Date: 02/15/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		02/15/01	02/15/01	02/15/01	02/15/01
H5620-1	J-9 SIDES	<0.005	<0.005	<0.005	<0.015
H5620-2	J-9 BOTTOM	<0.005	<0.005	<0.005	<0.015
Quality Control		0.111	0.102	0.107	0.317
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Relative Percent Difference		1.6	8.8	7.3	7.1

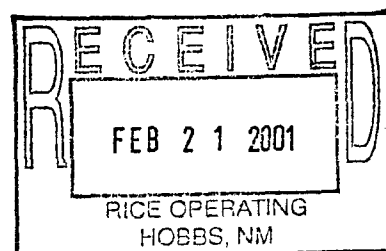
METHOD: EPA SW-846 8260

Chemist

*Bryan R. Cooke*

Date

2/19/01



H5620B.XLS

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page \_\_\_\_\_ of \_\_\_\_\_

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

# Sundance Services, Inc.

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

38903

LEASE OPERATOR/SHIPPER/COMPANY: *AFE*

LEASE NAME:

*AFE-692*

TRANSPORTER COMPANY:

TIME:

AM/PM

DATE:

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: *AFE-692*

VOLUME OF MATERIAL ☐ BBLs. \_\_\_\_\_ :

☒ YARD *12* :

☐ \_\_\_\_\_

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)

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