

1R - 427-213

## REPORTS

DATE:

2-6-07

EME Jct D-6 Vent

1R-427-213

RECEIVED

APR - 4 2007

Environmental Bureau  
Oil Conservation Division

# CLOSURE

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX DIMENSIONS - FEET		
EME	D-6 vent	D	6	21S	36E	Lea	Length	Width	Depth
							no box -- jct. eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 135 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 8/10/2006 Date Completed 10/4/2006 NMOCD Witness no

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

Soil Disposed 84 cubic yards Offsite Facility Sundance Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 8/24/2006, 10/18/2006 Sample Depth 12, 45 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

**CHLORIDE FIELD TESTS**

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.4	<10.0	<10.0	1300
BOTTOM COMP.	1.2	<10.0	<10.0	1400
BACKFILL	3.9	<10.0	<10.0	1260
SOIL BORING	0.0	XXX	XXX	16

LOCATION	DEPTH (ft)	ppm
30 x 30 x 12 excavation		
4-wall comp.	n/a	1020
bottom comp.	12	1066
backfill	n/a	1023

Soil Bore	20	1156
	25	604
	30	143
	35	116
	40	90
	45	57

**General Description of Remedial Action:**

This junction was eliminated with the pipeline upgrade/replacement program. After the box lumber was removed, the site was delineated using a backhoe to collect soil samples at regular intervals. Chloride field tests and OVMs were performed on each of the samples producing a 30 x 30 x 12-ft-deep excavation. Although headspace vapor concentrations were very low, chloride concentrations increased with depth. The excavated soil was blended on site and then returned to the excavation to 6 ft BGS where a clay barrier was installed. 84 cubic yards of the remaining fill was hauled to a disposal facility. The remainder of the excavation was filled to 2-3 ft BGS. Clean soil was imported to backfill the remainder to the surface and contoured to the surrounding terrain. To further investigate the depth of chloride penetration, a soil boring was initiated on 10/18/2006. The soil bore was advanced to a depth of 45 ft BGS when a trend of very low chloride concentrations could be confirmed, indicating non-saturated historical vadose conditions. The bore hole was plugged with bentonite clay and the 45-ft sample was analyzed at a laboratory to confirm the field tests. Hydrocarbons were not constituents of concern at this site and OCD TPH guidelines were met. On 10/4/2006, the disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

enclosures: photos, lab results, PID field screenings, chloride graph, disposal manifests, excavation profile, driller's diagram

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

SITE SUPERVISOR Darnell Mitchell SIGNATURE Darnell Mitchell COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 2/6/2007 TITLE Project Scientist



## EME D-6 vent



undisturbed junction box

8/31/2005



box lumber and junction removed

7/24/2006



delineation & excavation; collecting soil samples

Aug. 2006



backfilling 30 x 30 x 12-ft-deep excavation

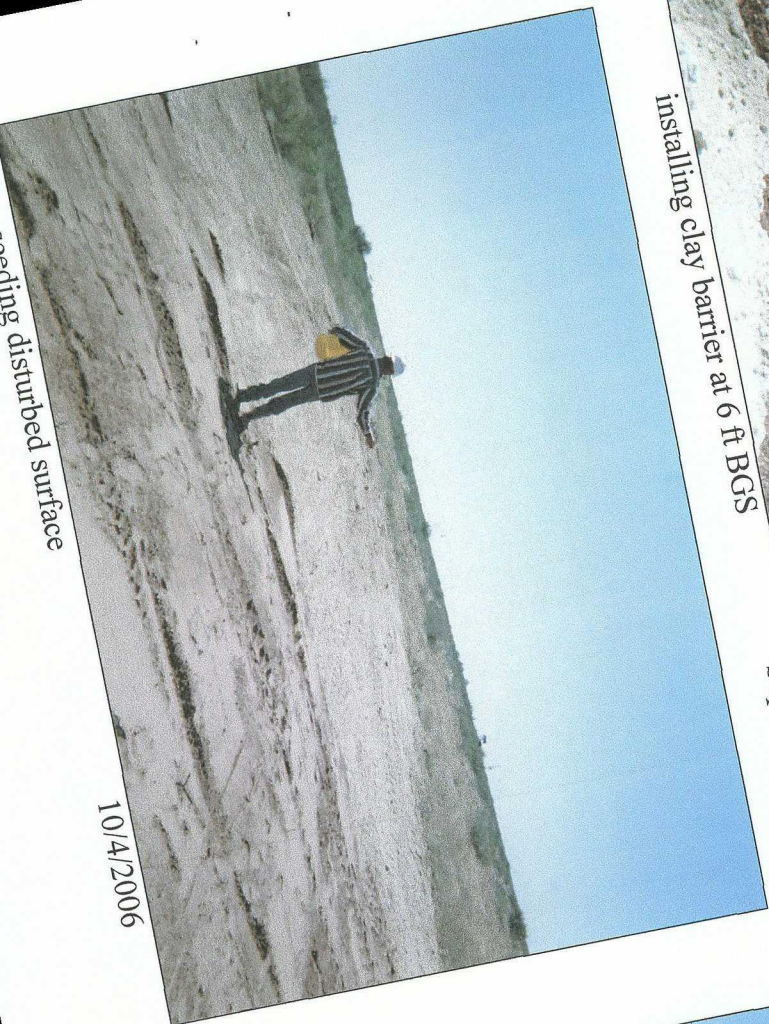
Sept. 2006





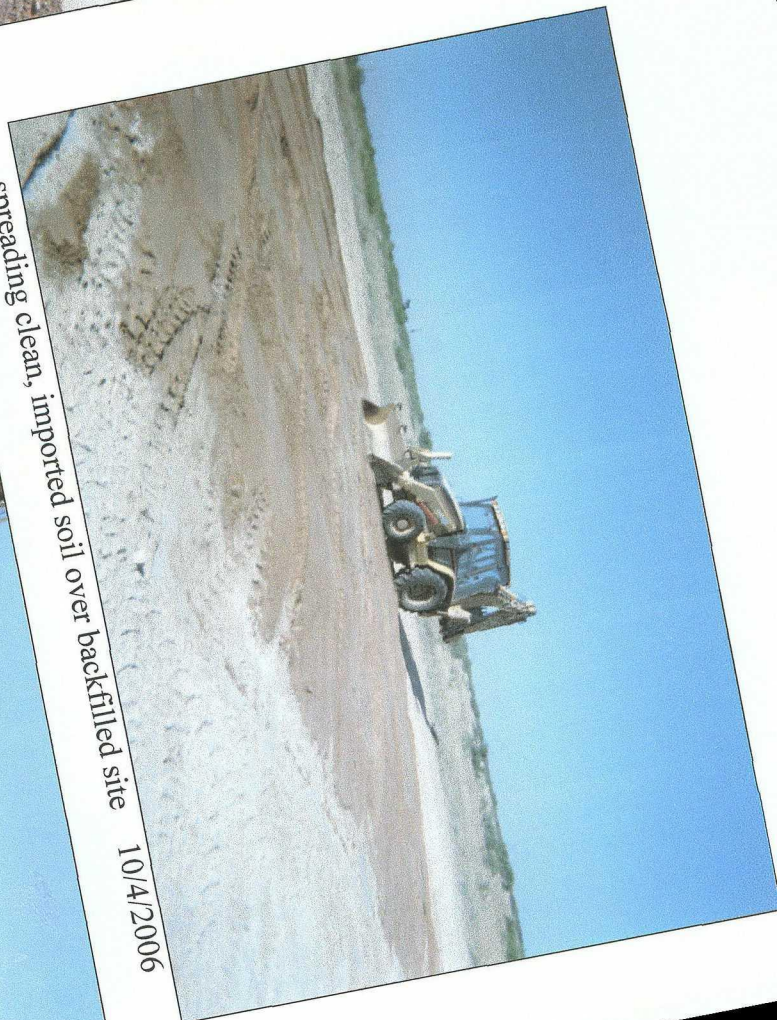
installing clay barrier at 6 ft BGS

Sept. 2006



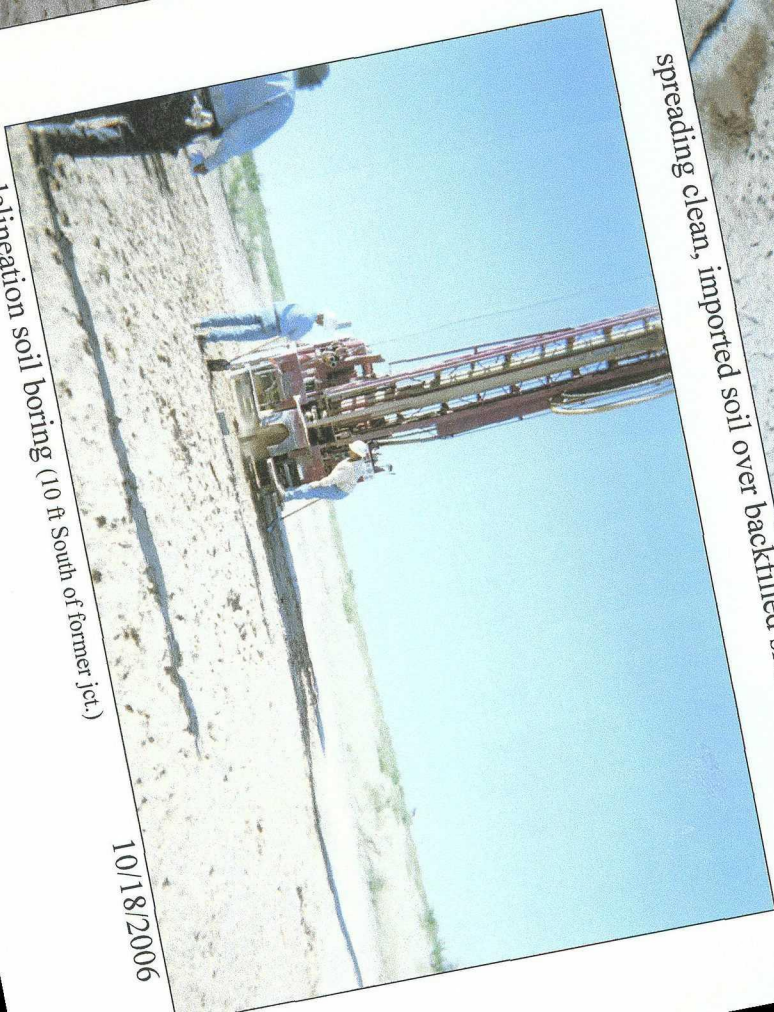
existing disturbed surface

10/4/2006



spreading clean, imported soil over backfilled site

10/4/2006



delineation soil boring (10 ft South of former jct.)

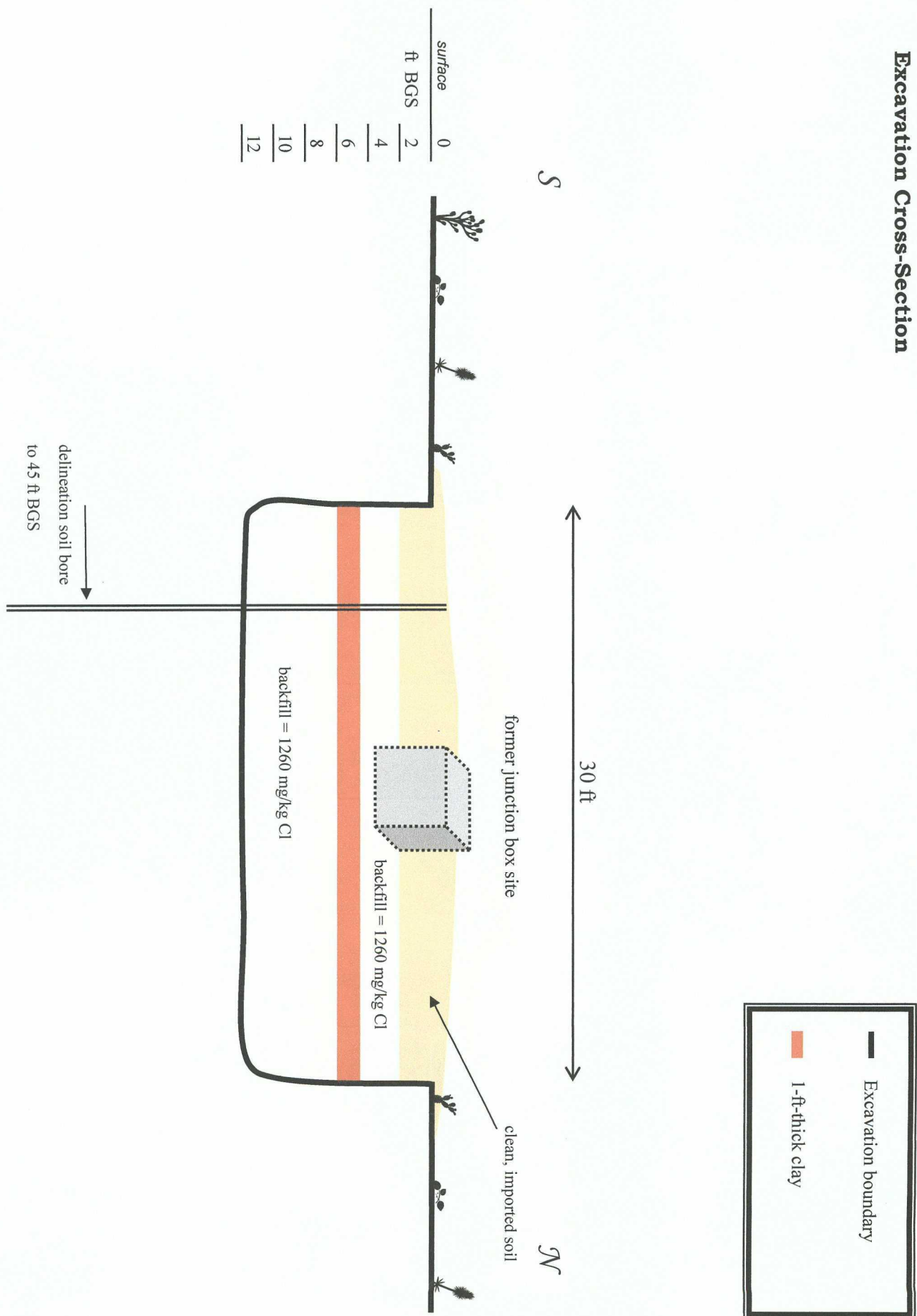
10/18/2006



# EME D-6 vent

## 30 x 30 x 12-ft-deep

### Excavation Cross-Section



# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 25214

Lease Operator/Shipper/Company: <u>Price Operating</u>	
Lease Name: <u>ELME Vent D-Co</u>	
Transporter Company: <u>Jim Welding</u>	Time _____ AM/PM
Date: <u>10-2-06</u>	Vehicle No. <u>700</u> Driver No. _____
Charge To: <u>Price Operating</u>	

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: D10

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLS. 12

YARDS

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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*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]

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 25188

Lease Operator/Shipper/Company: Price Operating	
Lease Name: E.M.F. Vent D-10	
Transporter Company: J.M. Welding	Time: _____ AM/PM
Date: 10-2-06	Vehicle No. 700
Driver No. _____	
Charge To: Price Operating	

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description:

D1D

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLS.

12

YARDS

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:

FACILITY REPRESENTATIVE:

John Acevedo



# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # **25166**

Lease Operator/Shipper/Company: Bice Operating

Lease Name: EME Vent V-10

Transporter Company: J+M Welding Time \_\_\_\_\_ AM/PM

Date: 10-2-00 Vehicle No. \_\_\_\_\_ Driver No. \_\_\_\_\_

Charge To: Bice Operating

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: DID

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLs.

12 YARDS

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 25138

Lease Operator/Shipper/Company: <u>Price Operating</u>	
Lease Name: <u>EME Kent D-6</u>	
Transporter Company: <u>J+M Welding</u>	Time _____ AM/PM
Date: <u>10-2-00</u>	Vehicle No. <u>700</u> Driver No. _____
Charge To: <u>Price Operating</u>	

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: Oil

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLS.

12 YARDS

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Lease Operator/Shipper/Company: <u>Rice Operating</u>		Ticket # <u>25109</u>
Lease Name: <u>IME West D-6</u>		
Transporter Company: <u>Jim Weeding</u>	Time	AM/PM
Date: <u>10-2-06</u>	Vehicle No. <u>7800</u>	Driver No. _____
Charge To: <u>Rice Operating</u>		

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: OIL

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLs.

12 YARDS

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]



# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 25016

Lease Operator/Shipper/Company: <u>Rice Operating</u>	
Lease Name: <u>EME Vent Co</u>	
Transporter Company: <u>Samuelson</u>	Time _____ AM/PM
Date: <u>1-29-06</u>	Vehicle No. <u>500</u> Driver No. _____
Charge To: <u>Rice Operating</u>	

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: DID

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLS.

12 YARDS

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DRIVER: [Signature]

FACILITY REPRESENTATIVE: [Signature]

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 25260

Lease Operator/Shipper/Company: <u>Rico</u>		
Lease Name: <u>Em F Ventile</u>		
Transporter Company: <u>Jim Williams</u>	Time	AM/PM
Date: <u>10-3-01</u>	Vehicle No. <u>700</u>	Driver No.
Charge To: <u>Rico</u>		

## TYPE OF MATERIAL

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms    | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Materials | <input type="checkbox"/> BS&W Content:                |  |

Description: oil

- ☐ JETOUT  
☐ CALLOUT

## VOLUME OF MATERIAL

BBLS.

12 ARDS

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FACILITY REPRESENTATIVE: [Signature]

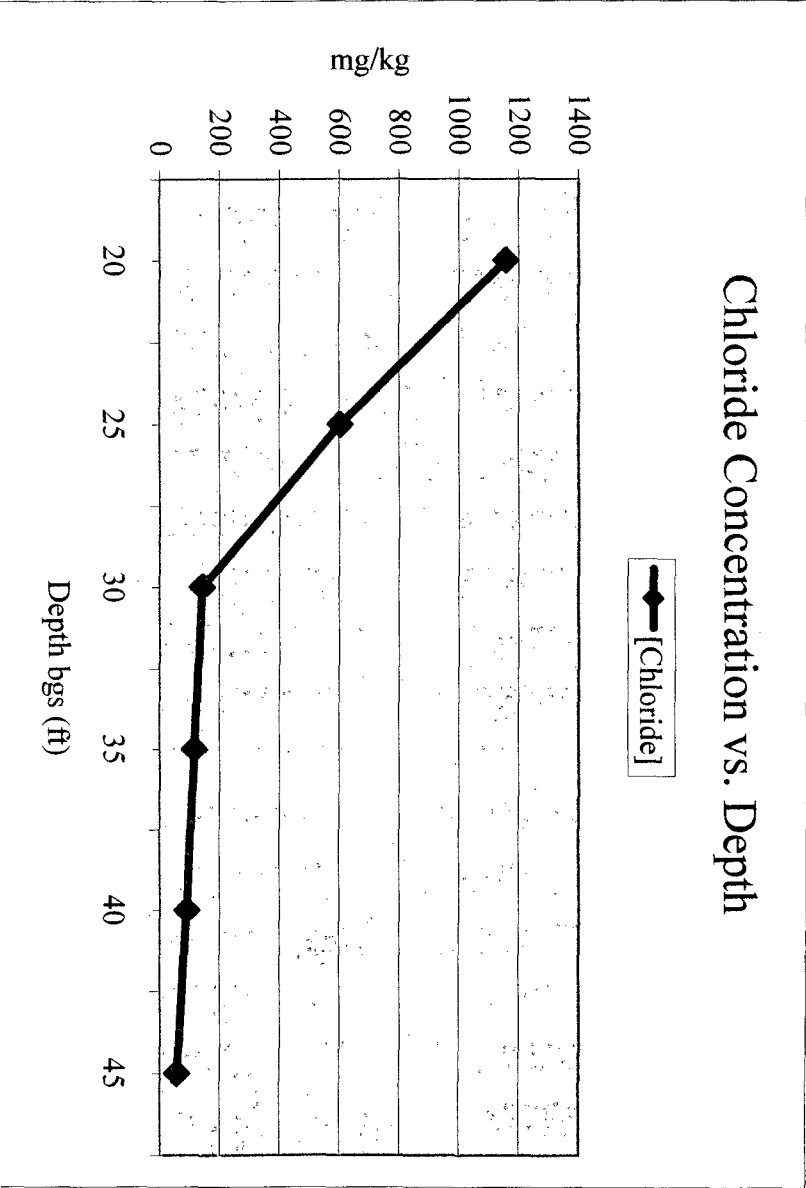
# EME D-6 vent

unit 'D', Sec. 6, T21S, R36E

SOIL BORING at former junction site

Depth bgs (ft)	[Cl] mg/kg
20	1156
25	604
30	143
35	116
40	90
45	57

Groundwater = 153 ft



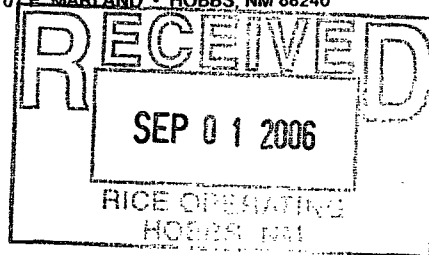




# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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



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

Receiving Date: 08/24/06  
Reporting Date: 08/28/06  
Project Number: NOT GIVEN  
Project Name: EME VENT D-6  
Project Location: NOT GIVEN

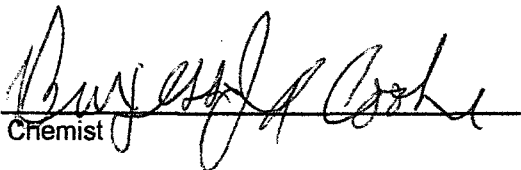
Sampling Date: 08/24/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: BC/HM

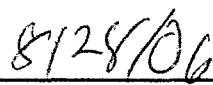
LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
------------	-----------	--	--	----------------

ANALYSIS DATE		08/25/06	08/25/06	08/25/06
H11476-1	4 WALL COMP. 30x30x12	<10.0	<10.0	1300
H11476-2	5 PT. BOTTOM COMP.	<10.0	<10.0	1400
H11476-3	BACKFILL BLEND	<10.0	<10.0	1260
Quality Control		780	742	960
True Value QC		800	800	1000
% Recovery		97.6	92.8	96.0
Relative Percent Difference		3.5	2.1	3.0

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

H11476

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.



**INDIVIDUALS, 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

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.**

FINAL 30 x 30 x 12 ft

# RICE OPERATING COMPANY

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

## VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.  
MODEL  
NO.

✓

MODEL: PGM 761S  
MODEL: PGM 761S  
MODEL: PGM 7600

SERIAL NO: 104412  
SERIAL NO: 104490  
SERIAL NO: 110-12383

LOT NO: 05-3993  
FILL DATE: 11-1-05  
ACCURACY: +/- 2%

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

EXP. DATE: 5-1-07

METER READING ACCURACY: 100.3

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	D6 VENT	D	6	T21S	R36E

Vent D6 EME 4 wall S. Comp's 4 wall comp S. Bottom Composite Backfill Blend

SAMPLE	PID RESULTS	SAMPLE	PID RESULTS
EAST wall S. Comp	1.1		
SOUTH wall S. Comp	0.9		
WEST wall S. Comp	1.2		
NORTH wall S. Comp	0.7		
4 wall Comp	0.4		
S. Bottom Composite	1.2		
Backfill Blend	3.9		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: Danwell of itcheff

DATE: 8-24-06

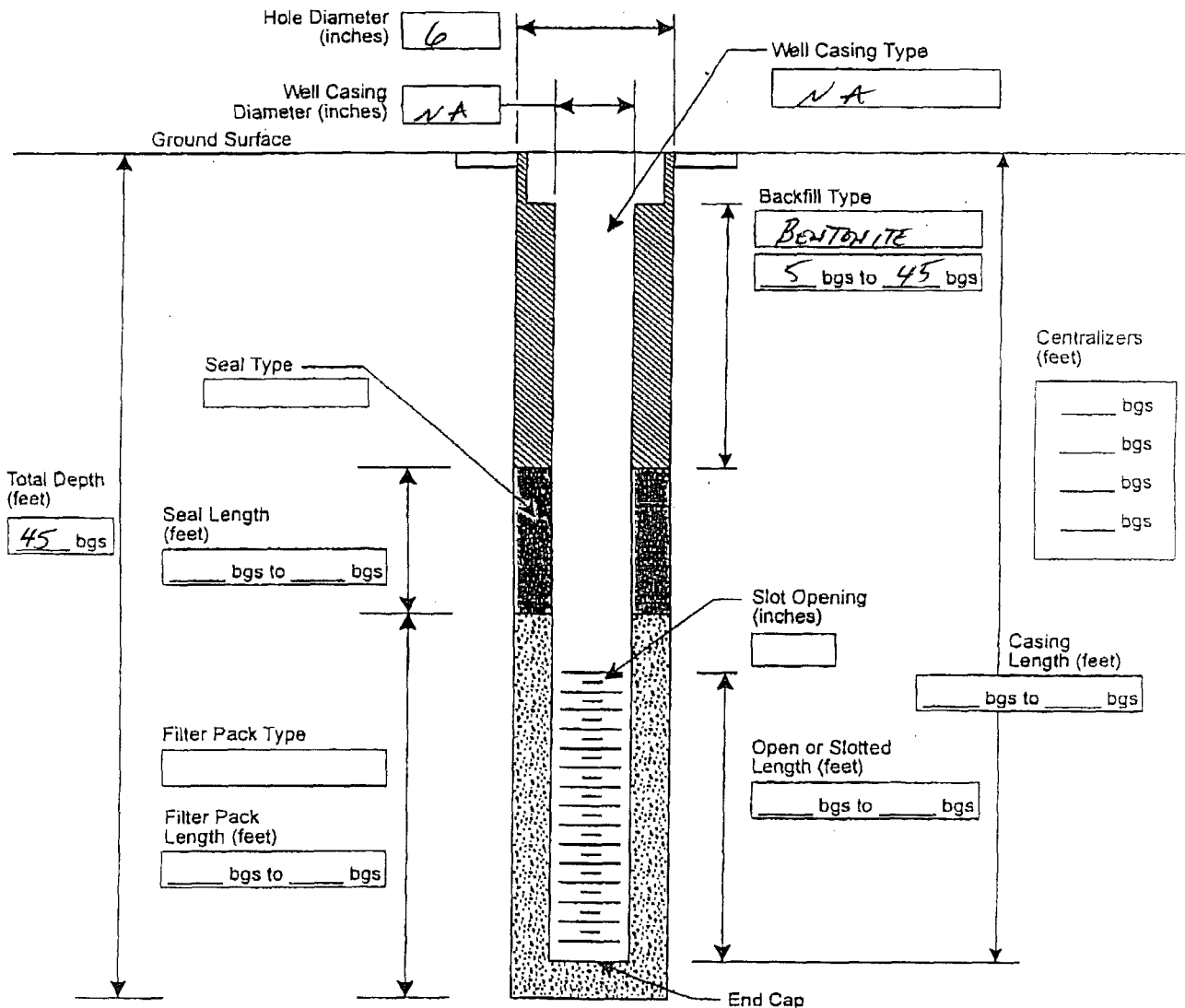


## Drilling & Pump Professionals

P.O. Box 96, Wolfforth, Texas 79382-0096

Email: [harrisoncooperinc@msn.com](mailto:harrisoncooperinc@msn.com)

Client RICE Project No. \_\_\_\_\_  
Well No. 5A Site EME D-6 Date Installed 10/18/06  
Formation of Completion \_\_\_\_\_  
Personnel G. BARNETT Driller C. HARRISON



Comments

45' SOIL BORING PFA W/ BENTONITE