

1R - 427-288

# REPORTS

DATE:

1-20-09

EME Chevron Evans St EOL

1R427-24

RECEIVED  
MAR 25 2009  
Environmental Bureau  
Oil Conservation Division

# DISCLOSURE

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

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length 10'	Width 5'	Depth 3'
Eunice Monument Eumont (EME)	Chevron Evans St EOL	O	3	21S	36E	Lea	moved 125' west		

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

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 10/30/2003 Date Completed 12/31/2003 OCD Witness no

Soil Excavated 178 cubic yards Excavation Length 20 Width 20 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 11/13/2003, 12/31/2003 Sample Depth 12 ft, 75 ft

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

**CHLORIDE FIELD TESTS**

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	768
BOTTOM COMP.	0.0	<10.0	<10.0	1460
BACKFILL COMP.	0.0	<10.0	<10.0	416
SOIL BORING 75' GRAB				1136

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1149
bottom comp.	12'	791
backfill comp.	n/a	542
soil boring 5 ft north of former junction (source)	20'	733
	25'	1365
	30'	1534
	35'	1735
	40'	1368
	50'	2285
	60'	2611
	70'	845
	75'	963

General Description of Remedial Action: This junction box was addressed under the pipeline replacement/upgrade program. A new, watertight junction box was installed 125 ft west of the former box. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals, producing a 20x20x12-ft-deep hole. Chloride field tests were performed on each sample, which yielded elevated concentrations of chloride. Organic vapors were measured using a PID, which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH. The excavated soil was blended on-site and returned to the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1.5-ft-thick clay barrier was installed. The remaining fill was used to backfill the excavation to ground surface and to contour to the surrounding area. An identification plate was placed on the surface at the former junction site to mark the presence of the clay below. To further investigate depth of chloride presence, a soil boring was initiated on 12/31/2003 at 5 ft north of the former junction. The boring was advanced to 75 ft BGS while soil samples were collected at regular intervals and tested for chloride concentrations. The 75 ft sample was analyzed by a commercial laboratory for chlorides and confirmed an elevated concentration. The entire bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on 10/24/2008.

**ADDITIONAL EVALUATION IS LOW PRIORITY**

enclosures: photos, lab results, PID screenings, boring data, cross-section, clay test

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

SITE SUPERVISOR Roy Rascon SIGNATURE not available COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-20-09

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

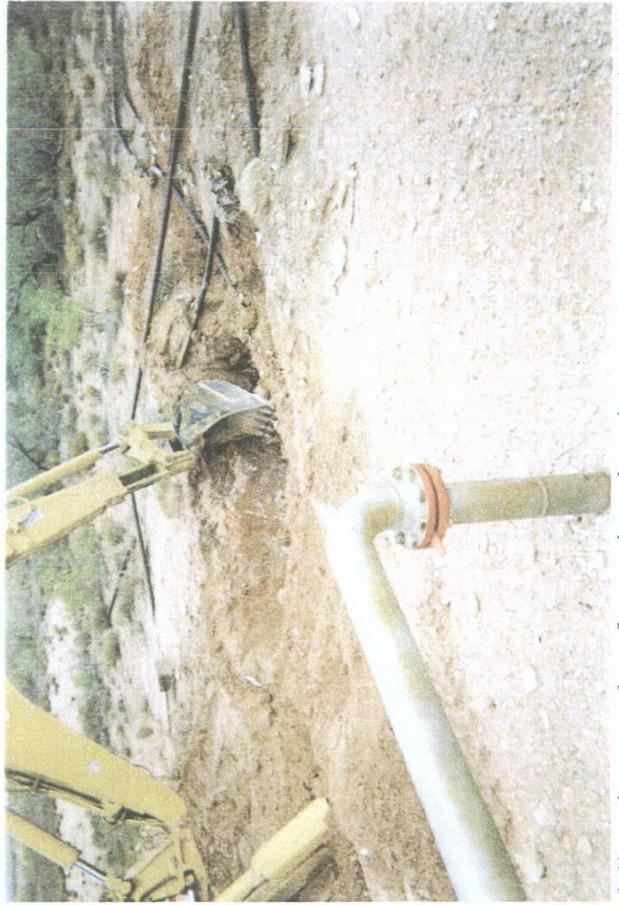
# EME Chevron Evans St EOL

Unit O, Section 3, T21S, R36E



undisturbed junction box

prior to 10/30/2003



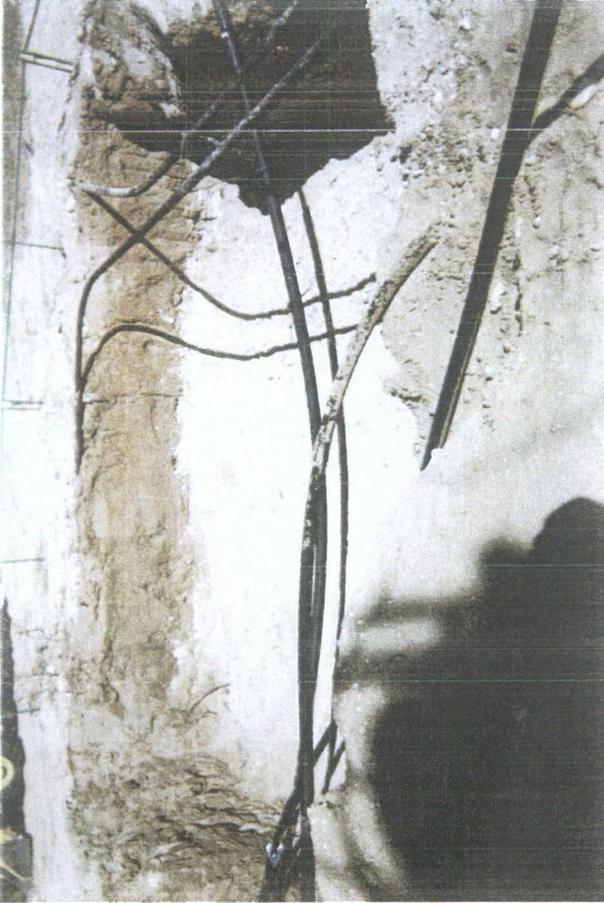
delineation trench at former junction site

11/10/2003



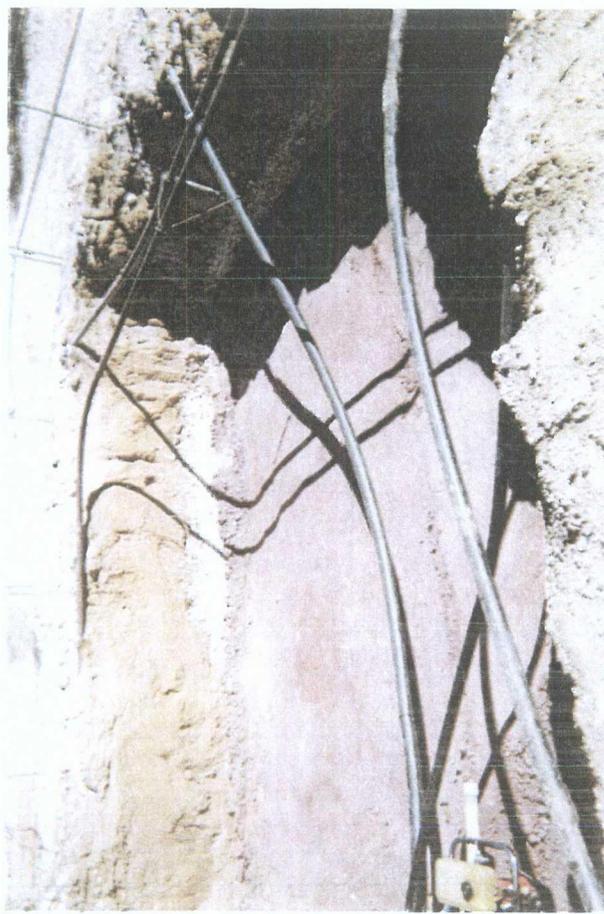
20x20x12-ft-deep excavation

11/13/2003



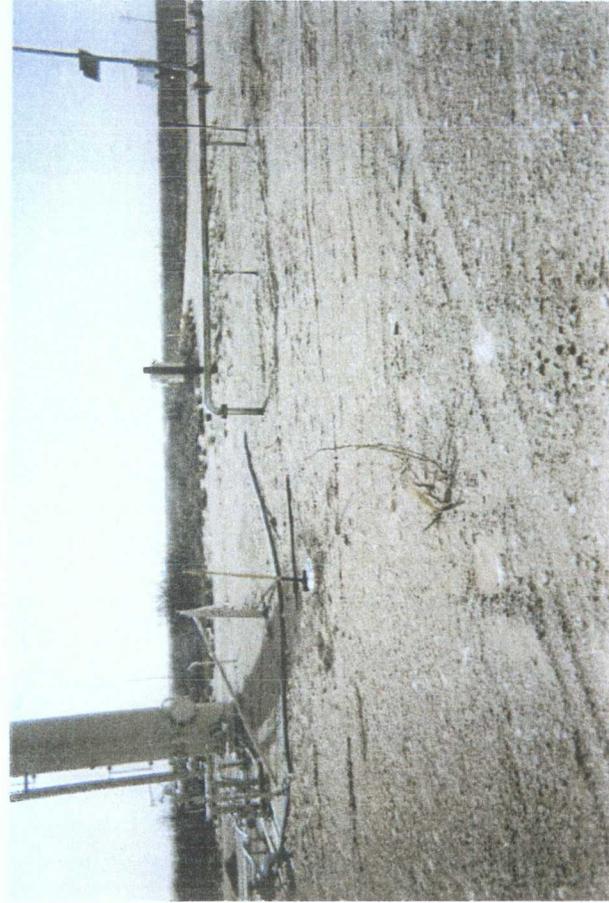
site backfilled up to 6.5 ft BGS

11/17/2003



clay barrier installed

11/19/2003



clay marker

12/15/2003



soil boring at 5 ft north of the former junction

12/31/2003



**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: KRISTIN FARRIS  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471



Receiving Date: 11/13/03  
Reporting Date: 11/17/03  
Project Number: NOT GIVEN  
Project Name: CHEVRON EVANS ST EOL  
Project Location: LEA CO., NM

Sampling Date: 11/13/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/HM

COPY

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)
ANALYSIS DATE		11/14/03	11/14/03	10/16/02
H8174-1	BOTTOM 12'	<10.0	<10.0	1460
H8174-2	4 WALL COMP.	<10.0	<10.0	768
H8174-3	REMEDIATED BACKFILL	<10.0	<10.0	416
Quality Control		782	725	1000
True Value QC		800	800	1000
% Recovery		97.8	90.6	100
Relative Percent Difference		1.3	6.0	2.0

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

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

Chemist

11/17/03  
Date

H8174.XLS

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(915) 673 7001 Fax (915) 673 7020 (505) 393 2326 Fax (505) 393 2470

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CHAIN OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RICE OPERATING COMPANY  
 Project Name: KRISTINA FACILITY  
 Address: 122 W. Taylor State: NM Zip: 88240  
 City: Hobbs  
 Phone #: 575 914 Fax #: 397 4111  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: Cheyen River SF Est  
 Project Location: Lee  
 Sample Name: Sample 11  
 (SAMPLER USE ONLY)

Company: RICE  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

ANALYSIS REQUEST

Lab ID	Sample ID	DATE	TIME	OTHER	FOOD/COOL	OTHER	ISLUDGE	ISRUDE OL	ISWASTEWATER	ISGROUNDWATER	ISCONTAINERS	ISORGS OR COMPO
N8171-1	Bottom Sediment	11/13	12:13									
N8171-2	Surface Sediment	11/13	1:02									
N8171-3	Surface Sediment	11/13	12:13									

MATRIX PRESERVATION SAMPLE TAG

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 OTHER: \_\_\_\_\_  
 FOOD/COOL: \_\_\_\_\_  
 OTHER: \_\_\_\_\_  
 ISLUDGE: \_\_\_\_\_  
 ISRUDE OL: \_\_\_\_\_  
 ISWASTEWATER: \_\_\_\_\_  
 ISGROUNDWATER: \_\_\_\_\_  
 ISCONTAINERS: \_\_\_\_\_  
 ISORGS OR COMPO: \_\_\_\_\_

Terms and Conditions: This Chain of Custody form is to be used to document the custody of samples from the time of collection to the time of analysis. It is not to be used for the purpose of documenting the custody of samples from the time of collection to the time of analysis. It is not to be used for the purpose of documenting the custody of samples from the time of collection to the time of analysis.

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Lab Staff) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Delivered by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Delivered by: (Circle One) \_\_\_\_\_  
 Samples - UPS - Bus - Other: \_\_\_\_\_  
 Remarks: See copy to site



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

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

COPY

Receiving Date: 01/05/04  
 Reporting Date: 01/06/04  
 Project Number: NOT GIVEN  
 Project Name: CHEVRON EVANS  
 Project Location: EME

Analysis Date: 01/06/04  
 Sampling Date: 12/31/03  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H8322-1	SOIL BORE 75' BGS	1136
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent Difference		7.0

METHOD: Standard Methods      4500-Cl<sup>-</sup>B

Note: Analysis performed on a 1:4 w:v aqueous extract.

Amy Hill  
 Chemist

1/6/04  
 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. 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.

h8322



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page      of     

<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																	
Company Name: <u>RICE OPERATING</u>		P.O. #:																	
Project Manager: <u>Kristin Faris</u>		Company: <u>RICE</u>																	
Address: <u>122 W Taylor</u>		Attn:																	
City: <u>Hobbs</u>		Address:																	
State: <u>NM</u> Zip: <u>88240</u>		City:																	
Phone #: <u>393-9174</u> Fax #: <u>397-1471</u>		State:																	
Project Owner:		Phone #:																	
Project Name: <u>Chevron Evans</u>		Fax #:																	
Project Location: <u>EMLE</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">PRESERV</th> <th style="width: 15%;">SAMPLING</th> </tr> <tr> <td>ICE/COOL</td> <td>OTHER:</td> </tr> <tr> <td>ACID/BASE:</td> <td>OTHER:</td> </tr> <tr> <td>SLUDGE</td> <td>SLUDGE</td> </tr> <tr> <td>CRUDE OIL</td> <td>CRUDE OIL</td> </tr> <tr> <td>SOL</td> <td>SOL</td> </tr> <tr> <td>GROUNDWATER</td> <td>GROUNDWATER</td> </tr> <tr> <td># CONTAINERS</td> <td>(G)RAB OR (C)OMP</td> </tr> </table>		PRESERV	SAMPLING	ICE/COOL	OTHER:	ACID/BASE:	OTHER:	SLUDGE	SLUDGE	CRUDE OIL	CRUDE OIL	SOL	SOL	GROUNDWATER	GROUNDWATER	# CONTAINERS	(G)RAB OR (C)OMP
PRESERV	SAMPLING																		
ICE/COOL	OTHER:																		
ACID/BASE:	OTHER:																		
SLUDGE	SLUDGE																		
CRUDE OIL	CRUDE OIL																		
SOL	SOL																		
GROUNDWATER	GROUNDWATER																		
# CONTAINERS	(G)RAB OR (C)OMP																		
Sample I.D.: <u>AB22- Soil Base 75' deep</u> Date: <u>12/10/03</u> Time: <u>1000</u>		DATE TIME <u>12/10/03</u> <u>1000</u>																	

**NOTE:** Liability and Damages, Cardinal's liability and that of its exclusive remedy for any claim arising out of or from this contract shall be limited to the amount paid by this client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. 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, 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.

Carrier and Certificate: Chloride

30 days past date of the date of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Received By: [Signature] Date: 11/15/04 Time: 9:30

Received By: (Lab Staff) [Signature] Date: 11/15/04 Time: 10:30

Sample Condition:  Cool  Intact

Checked By: (Initials) [Initials]

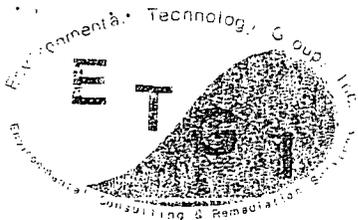
Delivered By: (Circle One)  UPS  Bus  Other

Remarks: Fax to RICE

Phone Result:  Yes  No Add'l Phone #:

Fax Result:  Yes  No Add'l Fax #:

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



ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND

HOBBS, NEW MEXICO 88240

PHONE: (505) 397-4882 FAX: (505) 397-4701

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S  
 CALIBRATION GAS  
 GAS COMPOSITION: ISOBUTYLENE  
 AIR

SERIAL NO: 103999

COPY

100 PPM  
 BALANCE

LOT NO: 67901  
 EXP. DATE: 11/04  
 METER READING  
 ACCURACY: 100.0

FILL DATE: 11-13-03  
 ACCURACY: 100.0 ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	EXTRON EMIS ST-502	0	3	01	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
Composite			
Samples			
20' 20' 12'			
10' North	0.0		
10' South	0.0		
10' West	0.0		
10' East	0.0		
Remediated			
6' well	0.0		
Bottom 12'	0.0		
4' well	0.0		

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

[Signature]  
 Signature

Field Tech  
 Title

11-13-03  
 Date

**LOG OF BORING**

K. Farris  
RICE Operating Company

COPY

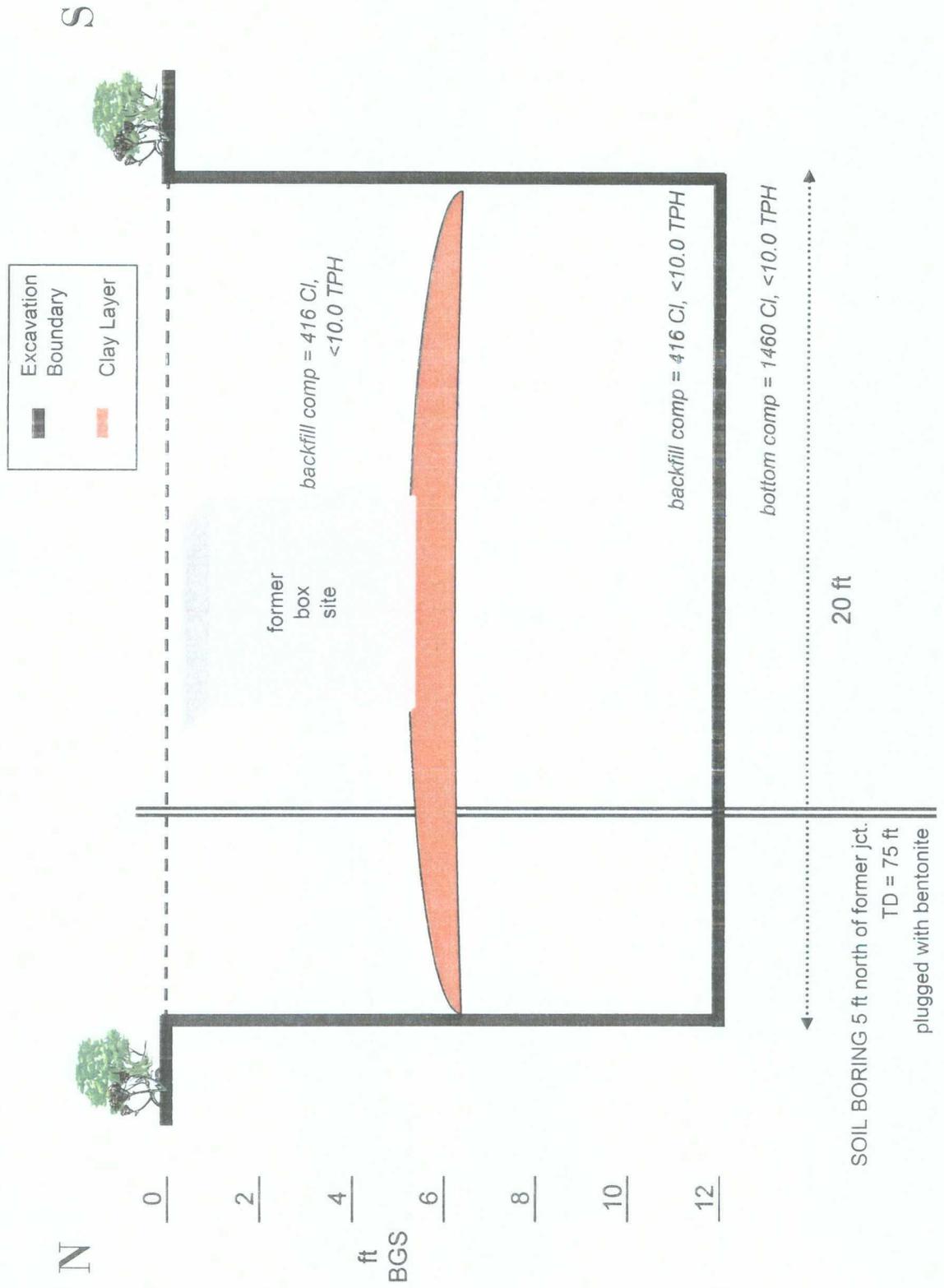
<b>Logger:</b>	Joe Gatts; Mort Bates	<b>Client:</b>	RICE Operating Company	<b>Well ID:</b>     <b>SB-1</b>
<b>Driller:</b>	Atkins Engineering Associates, Inc.	<b>Project Name:</b>	Evans State EOL	
<b>Drilling Method:</b>	Hollow Stem Auger	<b>Location:</b>	EME SWD System	
<b>Start Date:</b>	12/31/2003		Sec. 3, T21S, R36E	
<b>End Date:</b>	12/31/2003		Lea County, NM	
<b>Notes:</b>	Approximately 5 ft North of junction TD = 76 ft      Groundwater = 200 ft			

Depth (feet)	Split Spoon		Description	Lithology	Additional Notes
	chloride	PID			
0.0			0-12 ft Backfill from excavation (sand & caliche mix)	2-9 ft hydrated bentonite seal	Mixed lithology backfill from original excavation to 12 ft with clay barrier at 5-6.5 ft
5.0					
10.0					
15.0			12-18 ft Clayey sand with caliche: loose, reddish brown, dry		remainder of bore backfilled with drill cuttings
20.0	733	no odor	18-22 ft Clayey Sand: firm, reddish brown, dry		
25.0	1365	no odor	22-25 ft Silty sand: loose, reddish brown, dry		
30.0	1534	no odor	25-29 ft Silty Sand with caliche: firm, light gray, damp		
35.0	1735	no odor	29-63 ft Silty Sand: loose, reddish brown, dry		
40.0	1368	no odor			
45.0					
50.0	2285	no odor			
55.0			63-79 ft Silty sand partially cemented: firm, tan, dry		
60.0	2611	no odor			
65.0					
70.0	845	no odor	69-76 ft Poorly graded gravel with sand: loose, tan, dry		
75.0	963	no odor			

lab = 1136 ppm Cl<sup>-</sup>

EME Chevron Evans St EOL  
Unit 'O', Section 3, T21S, R37E

Excavation Cross-Section





LABORATORY TEST REPORT  
**PETTIGREW and ASSOCIATES, P.A.**  
 1110 N. GRIMES  
 HOBBS, NM 88240  
 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.  
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Corporation  
 Attn: Carolyn Haynes  
 122 W. Taylor  
 Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

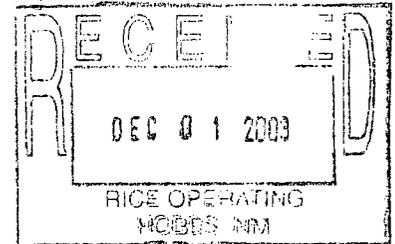
Project: Chevron Evans State EOI

Date of Test: November 19, 2003

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 9' W. & 5' S. of the NE Corner	95.0	20.7	

COPY



Control Density: 103.9  
 ASTM: D 698

Optimum Moisture: 21.4%

Required Compaction: 95%

Lab No.: 03 7002-7003

PETTIGREW and ASSOCIATES

Copies To: Rice Operating

BY Evan Pedersen E.T.

*Carolyn Haynes 12-1-03*