

1R - 427-227

**REPORTS**

**DATE:**

4-1-08

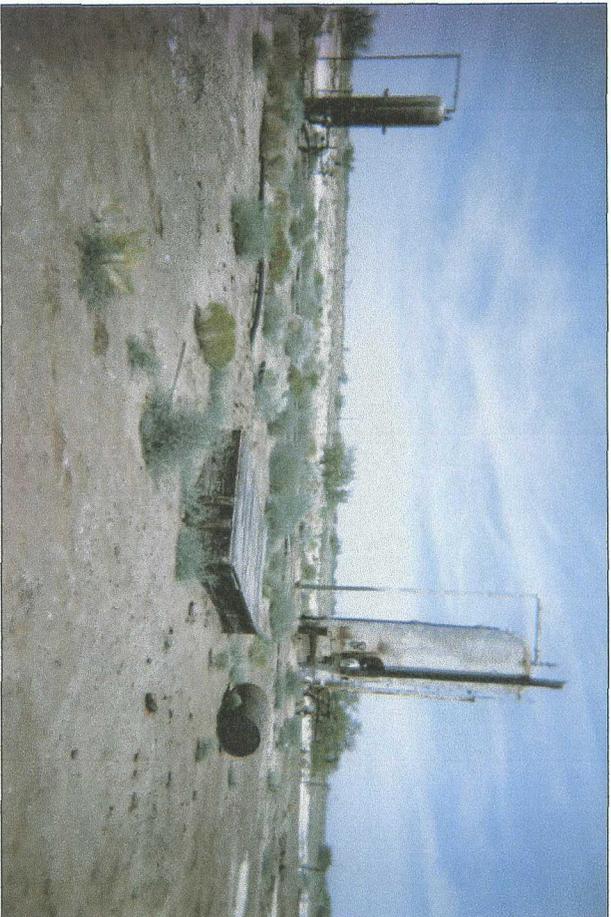
EME Laughlin 'A' EOL

IR 427-227

CLOSURE

4-1-08





undisturbed junction box

8/19/2003

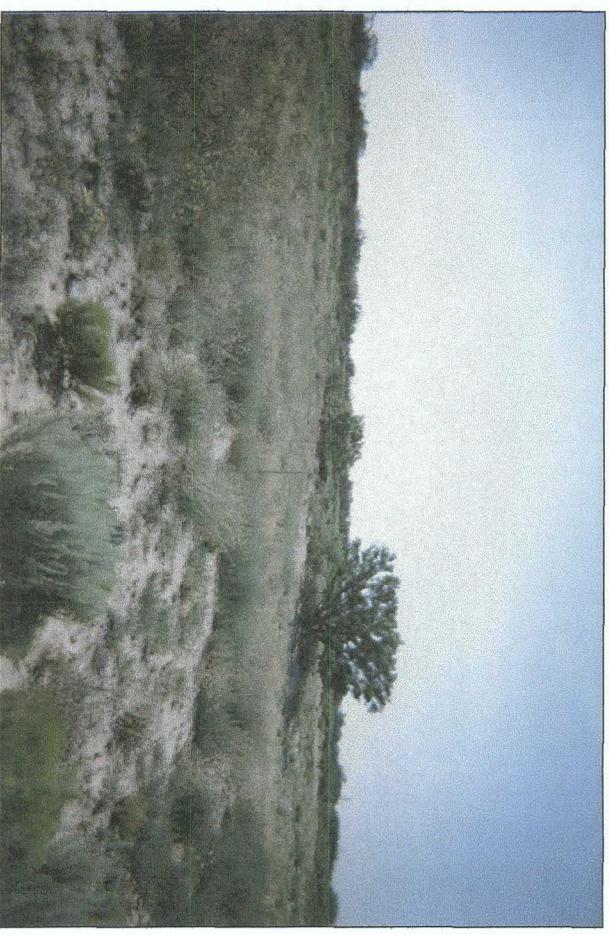
# EMF Laughlin 'A' EOL

Unit O, Section 5, T20S, R37E



former box site (marked by stake) at abandoned battery site

7/9/2007



former box site (marked by stake) at abandoned battery site

7/9/2007



# HESS CORPORATION

**Graham Resources Laughlin Battery #82  
LEA COUNTY, NEW MEXICO**

## SITE CLOSURE REPORT

PREPARED BY:

**BBC INTERNATIONAL, INC.**  
WORLD-WIDE ENVIRONMENTAL SPECIALISTS  
1324 W. MARLAND BLVD.  
P. O. BOX 805  
HOBBS, NEW MEXICO 88240  
(505)397-6388 • FAX (505)397-0397  
EMAIL: [bbc@bbcinternational.com](mailto:bbc@bbcinternational.com)  
WEBSITE: [www.bbcinternational.com](http://www.bbcinternational.com)

June 20, 2006

PREPARED FOR:

**MR. RANDY BARNES  
HESS CORPORATION  
P.O. BOX 840  
SEMINOLE, TX 79360**

*E. MAIC ADDRESS?*

*RP#978*

*facility - P PACO620926082  
incident - n PACO62096262  
administration - p PACO62096350*



# Hess Corporation

## Graham Resources Laughlin

### Battery #82

#### 1.0 INTRODUCTION

The subject site is north of Monument, New Mexico in Lea County in Unit Letter O, of Section 5, Township 20 South, and Range 37 East. The site is an abandoned tank battery. The Hess Corporation (Hess) sent a remediation plan to the New Mexico Oil Conservation Division (NMOCD), and the plan was approved on December 5, 2005.

#### 2.0 SITE CHARACTERIZATION

The area of the site measures approximately 52,000 square feet including a burn pit. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the United States Geological Survey, average depth to groundwater is less than 50 feet. Bedrock in the Monument area is very shallow and it is approximately one foot below the surface of the topsoil.

#### 3.0 SITE ACTIVITIES

Hess retained E.D. Walton Construction (E.D. Walton) to excavate the site and haul contaminated soil to a landfarm approved by NMOCD. BBC International, Inc. (BBC) was also retained by Hess to collect soil samples for laboratory analysis. The site was scanned for naturally occurring radioactive materials (NORM), and readings were normal. Excavation began on January 11, 2006.

A burn pit was located at the southwest corner of the site. On February 1, 2006, a sample was taken at a depth of fifteen (15) feet below ground surface (bgs) at the center of the burn pit. Laboratory analyses on the sample included Chloride, Benzene-Toluene-Ethylbenzene-Xylene (BTEX), and Total Petroleum Hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO). Chloride was 16 parts per million (ppm), GRO was 20.4 ppm, and DRO was 780 ppm. Benzene was 0.263 ppm, Toluene was 0.107 ppm, Ethylbenzene was 0.745 ppm, and Total Xylenes were 0.471 ppm. All site diagrams can be found in Appendix I, laboratory analyticals can be found in Appendix II, site photographs can be viewed in Appendix III, and email correspondences can be found in Appendix IV.

NMOCD was notified on March 9, 2006 of closing samples to be collected March 13, 2006. Seven (7) samples were collected from the excavation floor at three (3) feet bgs. GRO was non-detect in all of the samples, and DRO ranged from non-detect to 72 ppm in six (6) of the samples. Sample 5 contained 314 ppm DRO. Chlorides ranged from 16 ppm to 80 ppm, and BTEX was non-detect in every sample except for sample 6. In sample 6, Benzene was 0.003 ppm, Toluene was 0.006 ppm, Ethylbenzene was 0.002 ppm, and Total Xylenes were 0.010 ppm.

The area around sample 5 was excavated an additional foot. On March 24, 2006, NMOCD was informed of the sampling results and that sample 5 would be retaken on March 29, 2006. Sample 5 was collected at four (4) feet bgs. TPH and BTEX were non-detect, and chlorides were 16 ppm.

On March 17, 2006, BBC notified NMOCD of drilling and sampling to take place at the burn pit on March 20, 2006. One (1) soil boring, SB 1, was placed in the center of the pit, and four (4) soil borings (SB 2, SB 3, SB 4, SB 5) were placed around the perimeter of the pit. SB 1 was drilled to thirty (30) feet bgs with samples taken at three (3) feet, five (5) feet, and at every five foot interval thereafter. The perimeter soil borings were drilled to twenty (20) feet bgs, and were sampled in the same manner as SB 1.

Samples at SB 1 showed that TPH was non-detect at 3', however, there were 3,659 ppm at 5', 3,452 ppm at 10', and 2,137 ppm at 15'. The remaining samples for SB 1 were non-detect for TPH. The perimeter soil boring samples were non-detect for TPH except the 3' and 5' samples taken at SB 4, which were 1,100 ppm and 861 ppm respectively.

BTEX was detected at SB 1 to a depth of 15'. The 3' sample was non-detect for BTEX, however the 5' sample contained 0.238 ppm. The 10' sample contained 2.042 ppm, and the 15' sample had 0.865 ppm BTEX. BTEX was non-detect in all remaining SB 1 samples to 30' bgs. Samples in all other soil borings were also non-detect for BTEX.

At SB1, chlorides were less than 250 ppm in all samples except 15' to 25' bgs. The 15' sample was 496 ppm, the 20' sample was 704 ppm, and the 25' sample was 656 ppm. Chlorides were back to 176 ppm at 30' bgs. At SB 2, chlorides were below 250 ppm except the 20' sample which was 256 ppm. At SB 3, all samples above 20' were below 250 ppm. At 20' bgs, chlorides were 304 ppm. All samples collected from SB 4 and SB 5 showed chlorides to be under 250 ppm.

On March 31, 2006, BBC personnel spoke to NMOCD and proposed to excavate the burn pit to 10' bgs, install a clay liner, and backfill with clean soil. The proposal was approved. (By whom? JSA)

Page

A total of 7,820 cubic yards were hauled to a landfarm. A 2' clay liner was placed in the bottom of the burn pit, and backfilling of the site and burn pit was completed on April 17, 2006 with 8,984 cubic yards of clean soil. The site was reseeded on May 4, 2006.

#### 4.0 CONCLUSION

According to the United States Geological Survey, depth to groundwater is less than 50 feet. There are no water sources or surface water bodies within 1,000 horizontal feet. The laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are all within NMOCD guidelines.

# APPENDIX I

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## Site Diagrams

### Graham Resources Laughlin Battery #82 Monument, New Mexico

Prepared for:  
Hess Corporation  
Seminole, Texas

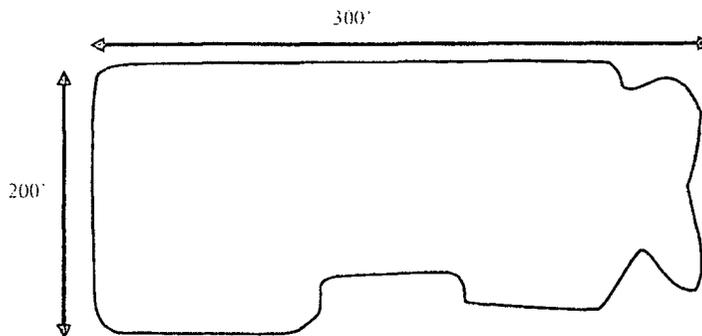
June, 2006

Prepared by:  
BBC International, Inc.

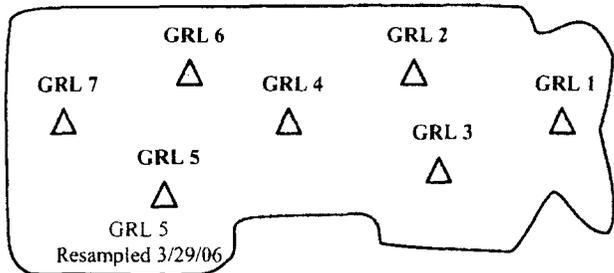
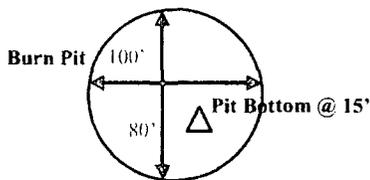
Hess Corporation  
**Graham Resources Laughlin Battery #82**  
**Sampling**



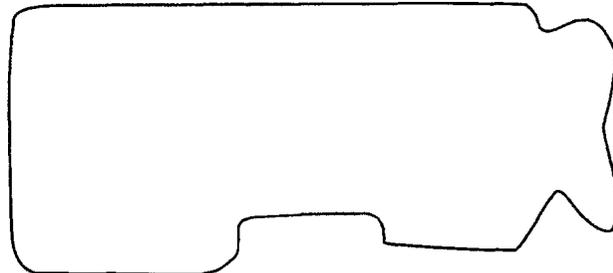
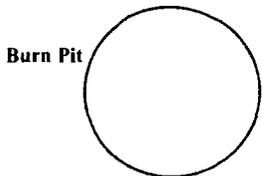
N



February 1, 2006



March 13, 2006



March 20, 2006

**LEGEND**

- △ Excavation Floor Sample Points
- ⊗ Soil Borings (Sampled at 3', 5', and 10')

**BBC INTERNATIONAL, INC.**

**Hess Corporation**  
**Graham Resources Laughlin Battery #82**

Date: 5-15-06

Drawn By: ACR

Disk:

Sheet 1 of 1 Sheets

Scale: Not to Scale

File Name

# **APPENDIX II**

---

## **Laboratory Analytical Results**

**Graham Resources Laughlin Battery #82**  
Monument, New Mexico

Prepared for:  
Hess Corporation  
Seminole, Texas

**June, 2006**

Prepared by:  
BBC International, Inc.



**ARDINAL  
LABORATORIES**

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

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

**ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NBM 88241  
FAX TO: (505) 397-0397**

Receiving Date: 02/01/06  
Reporting Date: 02/06/06  
Project Owner: AMERADA HESS  
Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82  
Project Location: MONUMENT, NM

Sampling Date: 02/01/06  
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)	Cl* (mg/Kg)
ANALYSIS DATE		02/02/06	02/02/06	02/02/06
H10694-1	AH GRL PIT BOTTOM	20.4	780	16
Quality Control		793	742	500
True Value QC		800	800	500
% Recovery		99.1	92.7	100
Relative Percent Difference		<0.1	2.3	8.0

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

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

\_\_\_\_\_  
Chemist

2/6/06  
\_\_\_\_\_  
Date

H10694A.XLS

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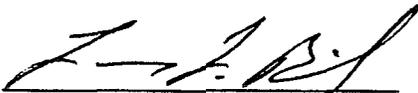
ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC  
ATTN: CLIFF BRUNSON  
1324 WEST MARLAND  
HOBBS, NM 88240  
FAX TO: 505-397-0397

Receiving Date: 2/1/06  
Reporting Date: 2/6/06  
Project Number: NONE GIVEN  
Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82  
Project Location: MONUMENT

Sampling Date: 2/1/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		2/3/06	2/3/06	2/3/06	2/3/06
H10694-1	AH GRL PIT BOTTOM	0.263	0.107	0.745	0.471
Quality Control		0.105	0.101	0.102	0.277
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	101	102	92.3
Relative Percent Difference		7.1	1.7	0.9	4.7

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

  
Laboratory Manager

2/6/06  
Date

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HOBBS, NM 88241  
FAX TO: (505) 397-0397

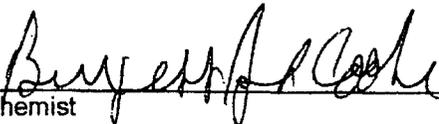
Receiving Date: 03/14/06  
Reporting Date: 03/18/06  
Project Number: MONUM 04ES003  
Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82  
Project Location: MONUMENT, NM

Sampling Date: 03/13/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AB

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	03/16/06	03/16/06	03/14/06
H10890-1	GRL 1	<10.0	<10.0	64
H10890-2	GRL 2	<10.0	20	16
H10890-3	GRL 3	<10.0	<10.0	16
H10890-4	GRL 4	<10.0	72	16
H10890-5	GRL 5	<10.0	314	80
H10890-6	GRL 6	<10.0	50.0	32
H10890-7	GRL 7	<10.0	67	16
	Quality Control	808	796	500
	True Value QC	800	800	500
	% Recovery	101	99.5	100
	Relative Percent Difference	4.2	0.6	0.0

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

3/18/06  
Date

H10890A.XLS

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ATTN: CLIFF BRUNSON  
1324 WEST MARLAND  
HOBBS, NM 88240  
FAX TO: 505-397-0397

Receiving Date: 3/14/06  
Reporting Date: 3/20/06  
Project Number: MONUM 04ES003  
Project Name: GRAHAM RESOURCES LAUGHLIN  
BATTERY 82  
Project Location: MONUMENT

Sampling Date: 3/13/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	-------------------------	-----------------------------

ANALYSIS DATE:		03/16/06	03/16/06	03/16/06	03/16/06
H10890-1	GRL1	<0.002	<0.002	<0.002	<0.006
H10890-2	GRL2	<0.002	<0.002	<0.002	<0.006
H10890-3	GRL3	<0.002	<0.002	<0.002	<0.006
H10890-4	GRL4	<0.002	<0.002	<0.002	<0.006
H10890-5	GRL5	<0.002	<0.002	<0.002	<0.006
H10890-6	GRL6	0.003	0.006	0.002	0.010
H10890-7	GRL7	<0.002	<0.002	<0.002	<0.006

Quality Control		0.097	0.094	0.098	0.297
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97	94	98	99
Relative Percent Difference		9.2	5.7	4.7	5.2

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

  
Chemist

3/20/06  
Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, 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

Company Name: <b>BBC International, Inc.</b>		P.O. # <b>45-157648</b>	
Project Manager: <b>Cliff Brunson</b>		Company: <b>Amerada Hess</b>	
Address: <b>1324 W. Marland</b>		Attn: <b>Randy Barnes</b>	
City: <b>Hobbs</b>		Address:	
State: <b>NM</b> Zip: <b>88240</b>		City: <b>Seminole</b>	
Phone #: <b>505-297-6388</b> Fax #: <b>505-297-0397</b>		State: <b>TX</b> Zip:	
Project #: <b>MONUM 085003</b> Project Owner: <b>Amerada Hess</b>		Phone #:	
Project Name: <b>Graham Resources Laughlin Battery 82</b>		Fax #:	
Project Location: <b>Monument</b>			
Sampler Name: <b>Amy Ruth</b>			
ANALYSIS REQUEST			
Lab I.D.	Sample I.D.	DATE	TIME
1108901	GRL 1	3/13/06	1012 AM
2	GRL 2	3/13/06	1020 AM
3	GRL 3	3/13/06	1022 AM
4	GRL 4	3/13/06	1024 AM
5	GRL 5	3/13/06	1027 AM
6	GRL 6	3/13/06	1029 AM
7	GRL 7	3/13/06	1032 AM
			Chloride
			TPH 8015 MOD
			BTEX

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Sampler Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: 3/14/06 Time: 12:10 pm  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: (Lab Staff) **Amy Ruth**  
 Checked By: (Initials) **Cliff Brunson**  
 Sample Condition:  Cool  Intact  Yes  No  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS:

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



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ANALYTICAL RESULTS FOR  
 BBC INTERNATIONAL, INC.  
 ATTN: CLIFF BRUNSON  
 1324 W. MARLAND  
 HOBBS, NM 88240  
 FAX TO: (505) 397-0397

Receiving Date: 03/30/06  
 Reporting Date: 04/03/06  
 Project Number: MONUM 04ES003  
 Project Name: GRAHAM R. LAUGHLIN BATTERY 82  
 Project Location: MONUMENT, NM

Analysis Date: 03/31/06  
 Sampling Date: 03/29/06  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: AB  
 Analyzed By: AB

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H10960-1	GRL #5	16
Quality Control		500
True Value QC		500
% Recovery		100.0
Relative Percent Difference		0.0

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

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

Hope S. Moreno  
 Chemist

04-04-06  
 Date

H10960

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BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
1324 WEST MARLAND  
HOBBS, NM 88240  
FAX TO: 505-397-0397

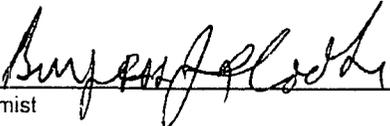
Receiving Date: 3/30/06  
Project Owner: AMERADA HESS  
Project Number: MONUM 04ES003  
Project Name: GRAHAM R LAUGHLIN BATTERY 82  
Project Location: MONUMENT  
Reporting Date: 4/4/06

Sampling Dates: 3/29/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
Analyzed By: JC

LAB ID	SAMPLE ID	GRO C6-C12 (mg/kg)	DRO >C12-C28 (mg/kg)	TOTAL TPH (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
H10960-1	GRL#5	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
Extraction Date:		04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Analysis Date:		04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Method Blank		<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
LCS					0.105	0.100	0.100	0.301
True Value LCS					0.100	0.100	0.100	0.300
LCS % Recovery					105%	100%	100%	100.3%
Matrix Spike (MS)				478				
Matrix Spike Dup (MSD)				491				
True Value Matrix Spike				500				
MS % Recovery				95.5%				
MSD % Recovery				98.3%				
Matrix Spike RPD				2.9%	7.4%	8.8%	7.0%	4.6%

FLAGS:

Methods: TPH SW-846 8015M; BTEX-MTBE SW-846 8021B, 5030B

  
Chemist

  
Date

H10960BTEXTPHSOIL[1].xls

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ANALYTICAL RESULTS FOR  
 BBC INTERNATIONAL, INC  
 ATTN: CLIFF BRUNSON  
 1324 WEST MARLAND  
 HOBBS, NM 88240  
 FAX TO: 505-397-0397

Receiving Date: 3/21/06  
 Project Owner: AMERADA HESS  
 Project Number: MONUM 04ES003  
 Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT  
 Project Location: MONUMENT  
 Reporting Date: 3/27/06

Sampling Dates: 3/20/06  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: NF  
 Analyzed By: JC

LAB ID	SAMPLE ID	GRO	DRO	TPH	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES
		C6-C12 (mg/kg)	>C12-C28 (mg/kg)	Total (mg/kg)				
H10916-1	SB1 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-2	SB1 5'	169	3490	3659	0.081	0.026	0.021	0.110
H10916-3	SB1 10'	329	3123	3452	0.924	0.291	0.194	0.633
H10916-4	SB1 15'	377	1760	2137	0.529	0.101	0.089	0.146
H10916-5	SB1 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-6	SB1 25'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-7	SB1 30'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-8	SB2 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-9	SB2 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-10	SB2 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-11	SB2 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-12	SB2 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-13	SB3 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-14	SB3 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-15	SB3 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006

Extraction Date:	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
Analysis Date:	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
Method Blank	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
LCS				0.098	0.093	0.097	0.295
True Value LCS				0.100	0.100	0.100	0.300
LCS % Recovery				98.0%	93.0%	97.0%	98.3%
Matrix Spike (MS)			461				
Matrix Spike Dup (MSD)			477				
True Value Matrix Spike			500				
MS % Recovery			92.2%				
MSD % Recovery			95.4%				
Matrix Spike RPD			3.4%	3.9%	5.2%	4.1%	4.8%

FLAGS:

Methods: SW-846 8015 M; BTEX-MTBE SW-846 8021B, 5030B

*Bryant J. Cooke*  
 Chemist

3/27/06  
 Date

H10916BTEX-TPH SOIL[1].xls

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

ANALYTICAL RESULTS FOR  
 BBC INTERNATIONAL, INC  
 ATTN: CLIFF BRUNSON  
 1324 WEST MARLAND  
 HOBBS, NM 88240  
 FAX TO: 505-397-0397

Receiving Date: 3/21/06  
 Project Owner: AMERADA HESS  
 Project Number: MONUM 04ES003  
 Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT  
 Project Location: MONUMENT  
 Reporting Date: 3/27/06

Sampling Dates: 3/20/06  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: NF  
 Analyzed By: JC

LAB ID	SAMPLE ID	GRO C6-C12 (mg/kg)	DRO >C12-C28 (mg/kg)	TPH Total (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
H10916-16	SB3 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-17	SB3 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-18	SB4 3'	<50.0	1100	1100	<0.002	<0.002	<0.002	<0.006
H10916-19	SB4 5'	<50.0	861	861	<0.002	<0.002	<0.002	<0.006
H10916-20	SB4 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-21	SB4 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-22	SB4 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-23	SB5 3'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-24	SB5 5'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-25	SB5 10'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-26	SB5 15'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
H10916-27	SB5 20'	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006

Extraction Date:	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
Analysis Date:	03/24/06	03/24/06	03/24/06	03/23/06	03/23/06	03/23/06	03/23/06
Method Blank	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
LCS				0.098	0.093	0.097	0.295
True Value LCS				0.100	0.100	0.100	0.300
LCS % Recovery				98.0%	93.0%	97.0%	98.3%
Matrix Spike (MS)			461				
Matrix Spike Dup (MSD)			477				
True Value Matrix Spike			500				
MS % Recovery			92.2%				
MSD % Recovery			95.4%				
Matrix Spike RPD			3.4%	3.9%	5.2%	4.1%	4.8%

FLAGS:

Methods: SW-846 8015 M; BTEX-MTBE SW-846 8021B, 5030B

*Cliff Brunson*  
 Chemist

*3/27/06*  
 Date

H10916-2BTEX-TPH SOIL[1].xls

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ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

Receiving Date: 03/21/06

Reporting Date: 03/24/06

Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT

Project Location: MONUMENT, NM

Analysis Date: 03/22/06

Sampling Date: 03/20/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/L)
H10916-1	SB1 3'	16
H10916-2	SB1 5'	16
H10916-3	SB1 10'	128
H10916-4	SB1 15'	496
H10916-5	SB1 20'	704
H10916-6	SB1 25'	656
H10916-7	SB1 30'	176
H10916-8	SB2 3'	16
H10916-9	SB2 5'	16
H10916-10	SB2 10'	16
H10916-11	SB2 15'	160
H10916-12	SB2 20'	256
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

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

Note: Analyses performed on 1:4 w:v aqueous extracts.

*Lupe S. Moreno*  
\_\_\_\_\_  
Chemist

03-27-06  
\_\_\_\_\_  
Date



# ARDINAL LABORATORIES

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Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT

Project Location: MONUMENT, NM

Analysis Date: 03/22/06

Sampling Date: 03/20/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

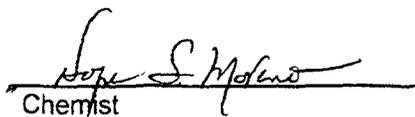
Sample Received By: NF

Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H10916-13	SB3 3'	16
H10916-14	SB3 5'	16
H10916-15	SB3 10'	16
H10916-16	SB3 15'	176
H10916-17	SB3 20'	304
H10916-18	SB4 3'	16
H10916-19	SB4 5'	16
H10916-20	SB4 10'	16
H10916-21	SB4 15'	16
H10916-22	SB4 20'	16
H10916-23	SB5 3'	16
H10916-24	SB5 5'	16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

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

Note: Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

03-27-06  
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.



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

ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

Receiving Date: 03/21/06

Reporting Date: 03/24/06

Project Number: MONUM 04ES003

Project Name: GRAHAM RESOURCES LAUGHLIN BURN PIT

Project Location: MONUMENT, NM

Analysis Date: 03/22/06

Sampling Date: 03/20/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

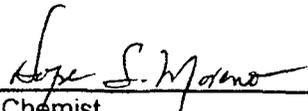
Sample Received By: NF

Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H10916-25	SB5 10'	32
H10916-26	SB5 15'	208
H10916-27	SB5 20'	224
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

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

Note: Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

03-27-06  
Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**CARDINAL LABORATORIES, INC.**  
 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2478

ANALYSIS REQUEST		BILL TO	
Company Name:	BBC International, Inc.	P.O. #:	45-157648
Project Manager:	Cliff Brunson	Company:	Amerada Hess
Address:	1324 W. Marland	Attn:	Randy Barnes
City:	Hobbs	Address:	
Phone #:	505-397-6388	City:	Seminole
Fax #:	505-397-0397	State:	TX
Project Name:	MONUM RESOURCES Laughlin Burn Pit	Zip:	
Project Location:	Monument	Phone #:	
Sampler Name:	Amy Ruth	Fax #:	

Lab I.D.	Sample I.D.	(GRAB OR (COMP. #) CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	MATRIX	PRESERV	SAMPLING	DATE	TIME
H10916-1	SB1 3'	1													3/20/06	1115 am
	-2 SB1 5'	1													3/20/06	1119 am
	-3 SB1 10'	1													3/20/06	1131 am
	-4 SB1 15'	1													3/20/06	1142 am
	-5 SB1 20'	1													3/20/06	1151 am
	-6 SB1 25'	1													3/20/06	1205 pm
	-7 SB1 30'	1													3/20/06	1225 pm
	-8 SB2 3'	1													3/20/06	135 pm
	-9 SB2 5'	1													3/20/06	140 pm
	-10 SB2 10'	1													3/20/06	152 pm

PLEASE NOTE: Lead, Cadmium, Chromium, Nickel, and Silver (remedy for any claim) shall be analyzed as per the amount paid by the client for the analysis. All other metals shall be analyzed as per the amount paid by the client for the analysis. All other metals shall be analyzed as per the amount paid by the client for the analysis. All other metals shall be analyzed as per the amount paid by the client for the analysis.

Sampler Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: (Lab Staff) \_\_\_\_\_ Date: 3/21/06 Time: 5:15 pm

Relinquished By: *Amy Ruth*

Delivered By: (Circle One) \_\_\_\_\_

Sampler - UPS - Bus - Other: \_\_\_\_\_

Checked By: (Initials) *MA*

Sample Condition: Cool  Intact  Yes  No  Yes  No

Phone Result:  Yes  No  Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No  Add'l Fax #: \_\_\_\_\_

REMARKS:





# **APPENDIX III**

---

## **Site Photographs**

### **Graham Resources Laughlin Battery #82 Monument, New Mexico**

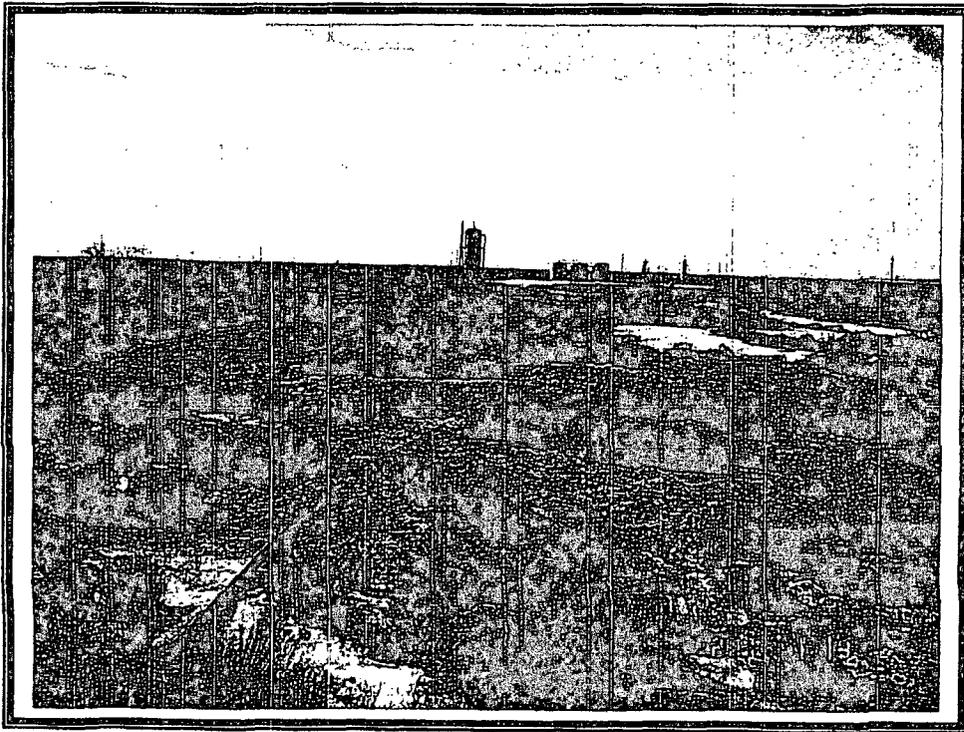
Prepared for:  
Hess Corporation  
Seminole, Texas

**June, 2006**

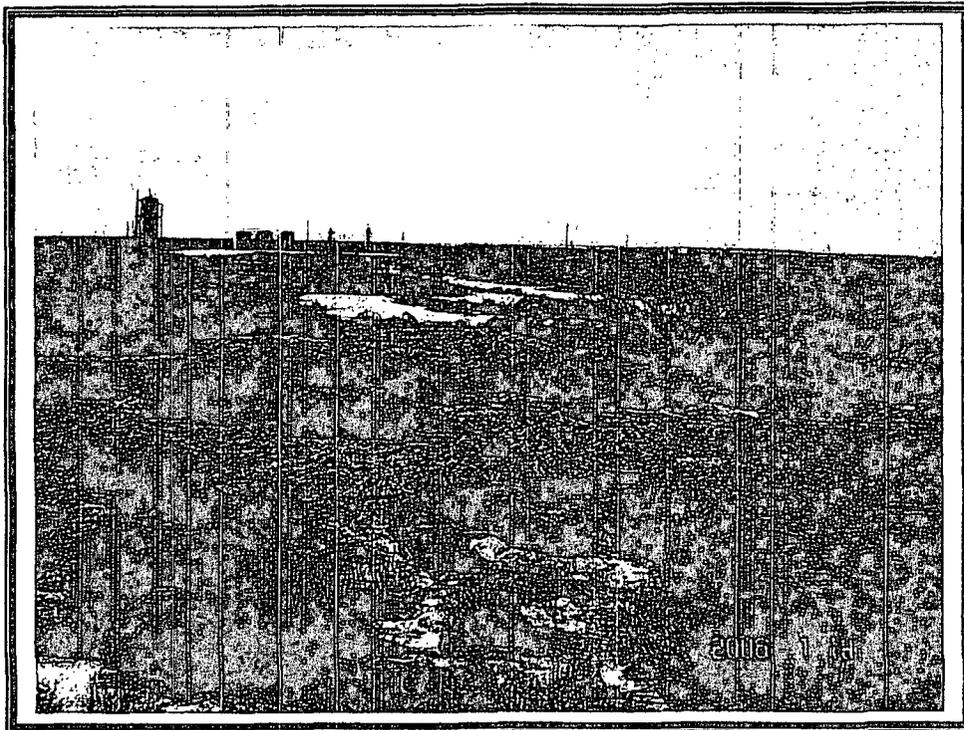
Prepared by:  
BBC International, Inc.



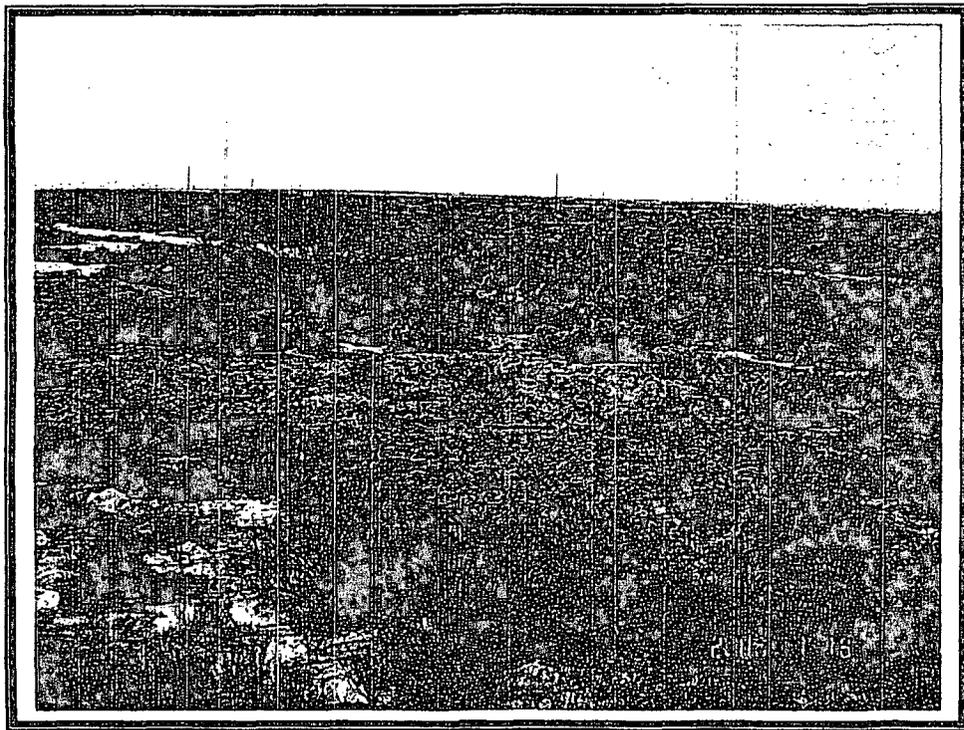
Graham Resources Laughlin Battery #82



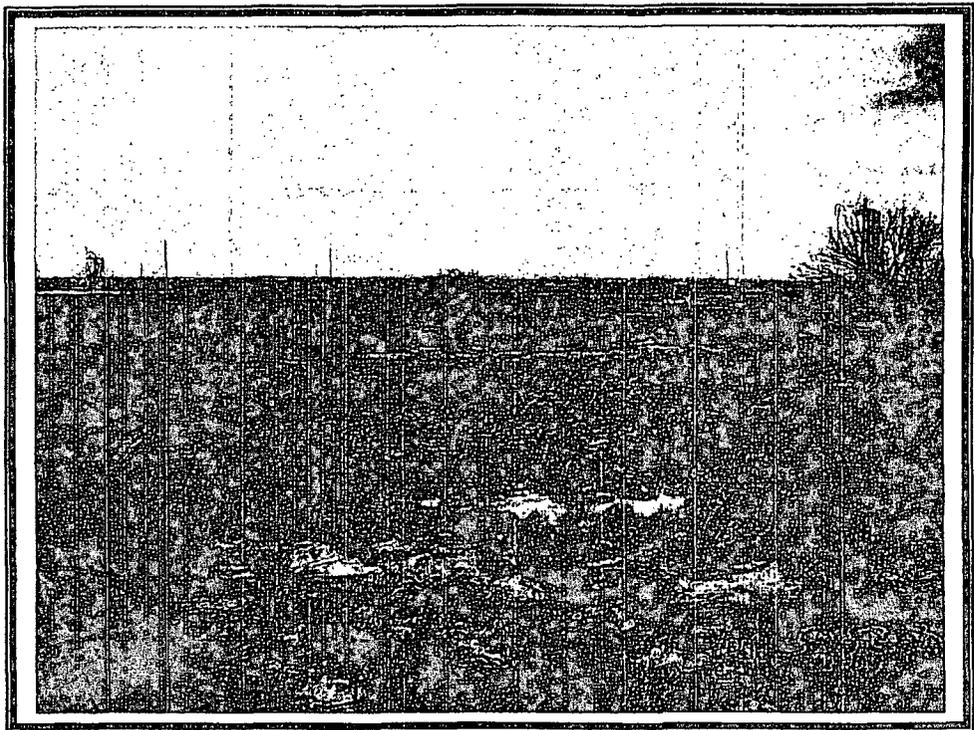
Graham Resources Laughlin Battery #82



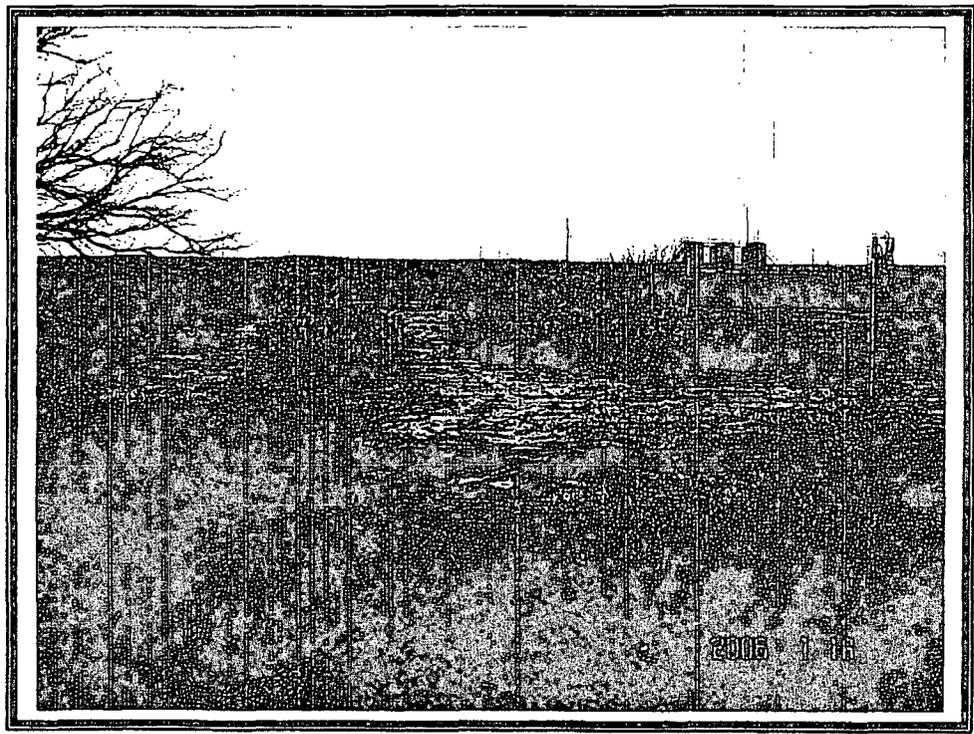
Graham Resources Laughlin Battery #82



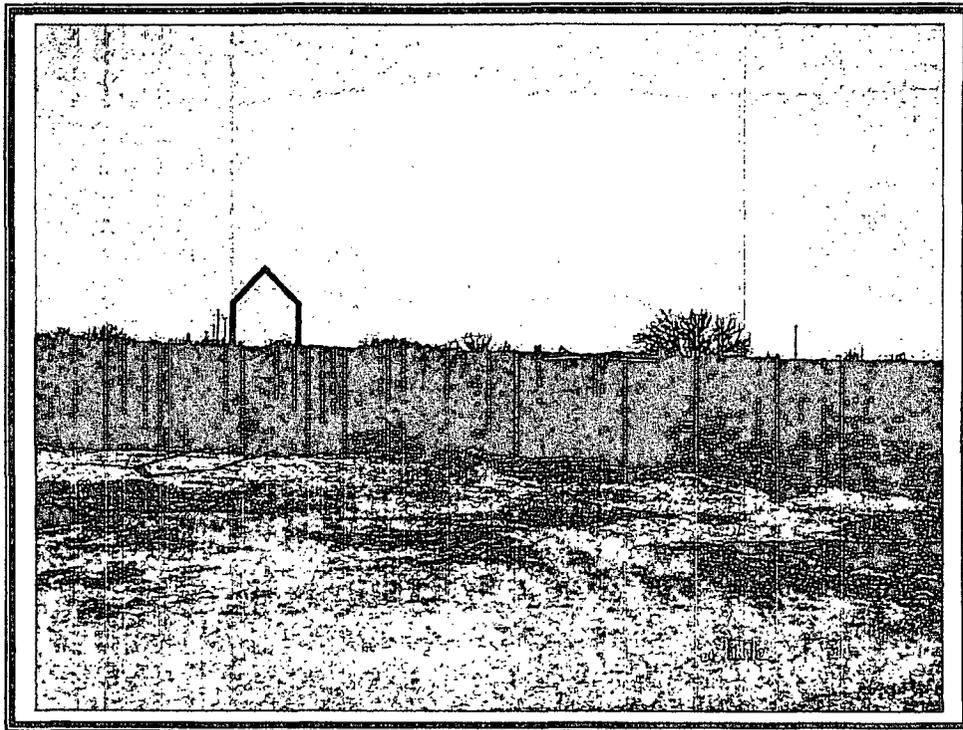
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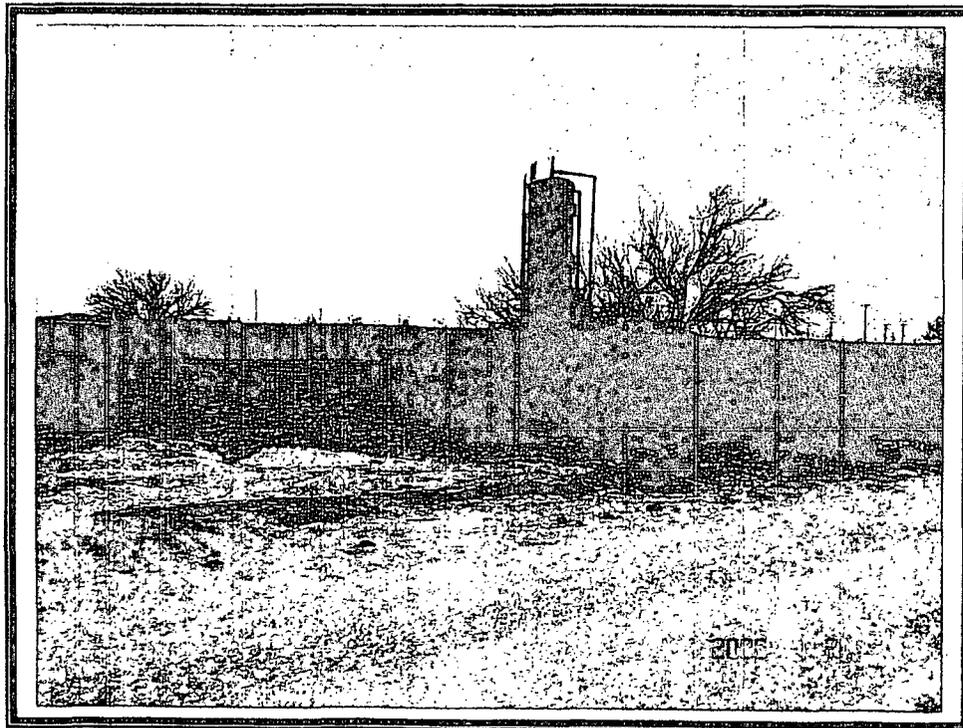
Graham Resources Laughlin Battery #82 burn pit



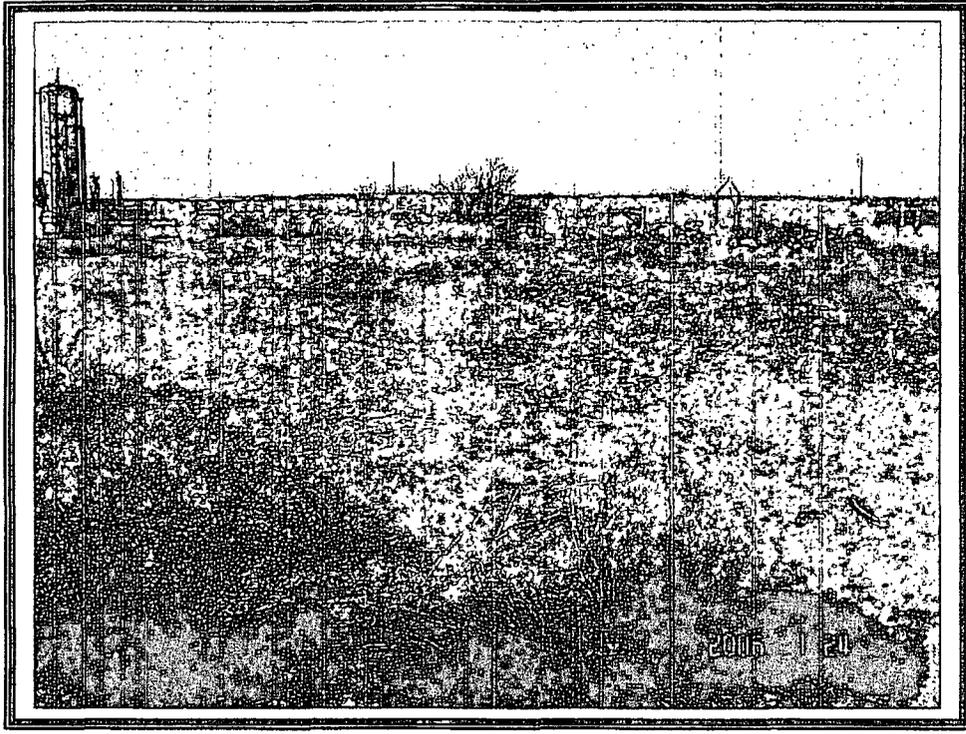
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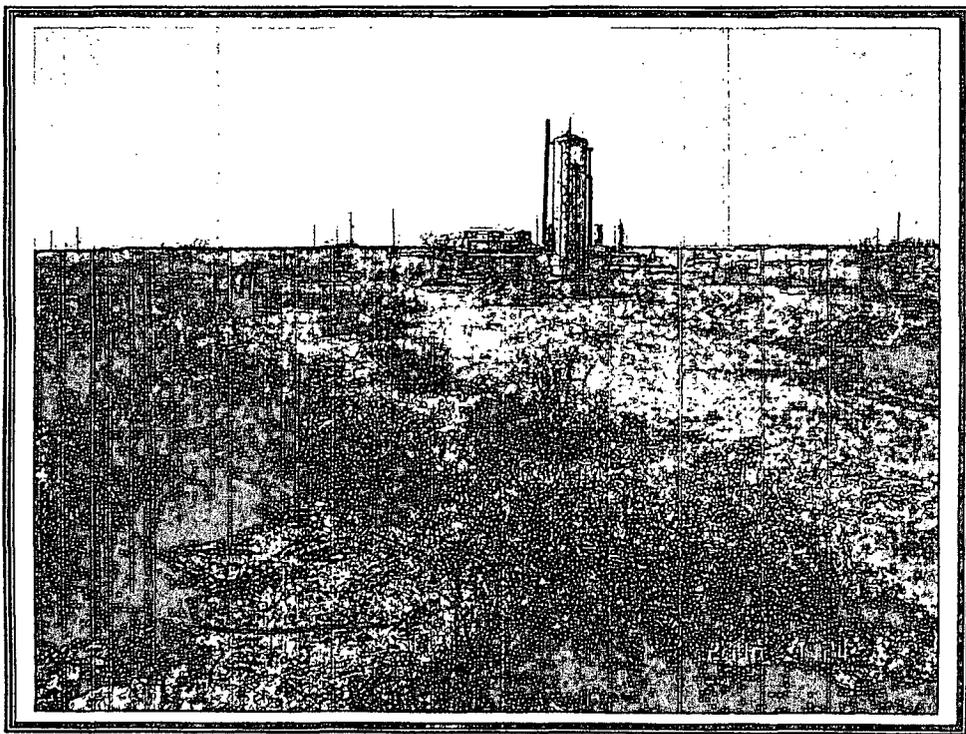
Graham Resources Laughlin Battery #82



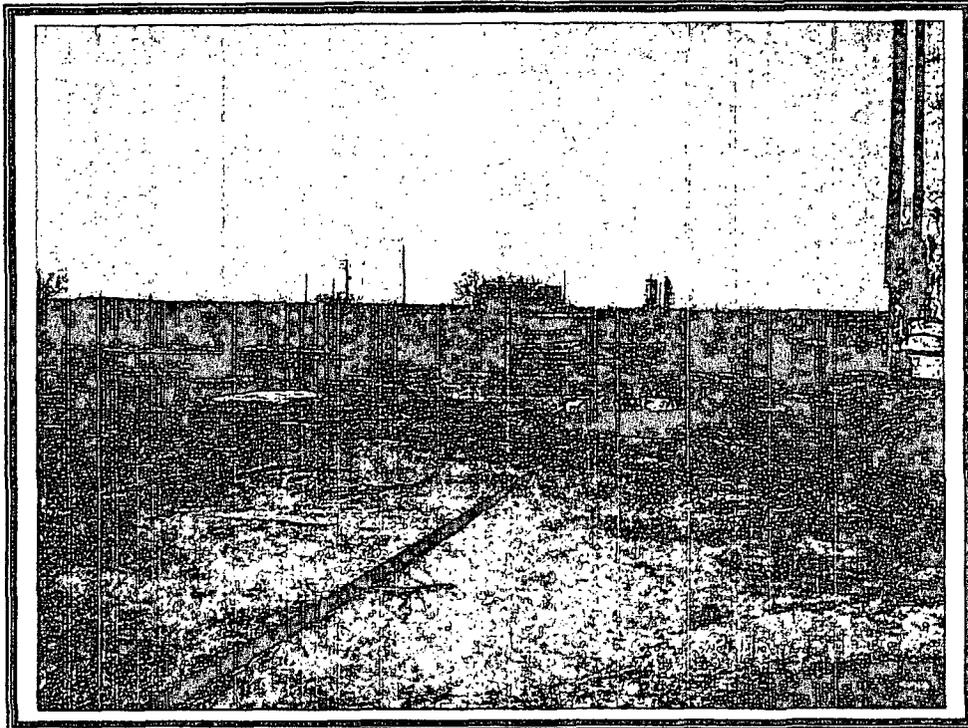
Graham Resources Laughlin Battery #82



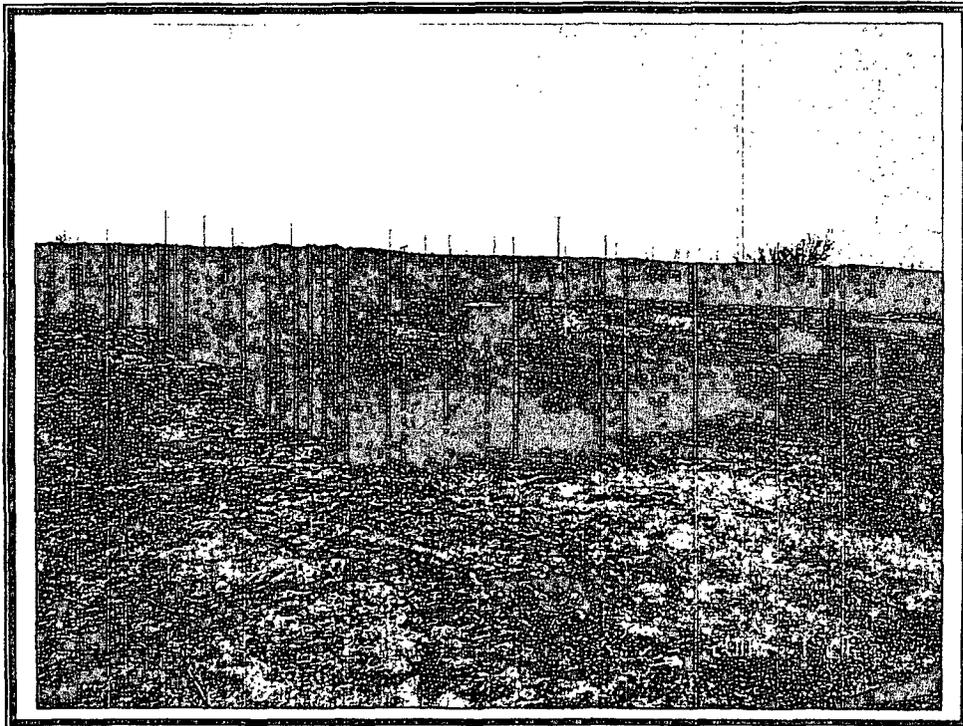
Graham Resources Laughlin Battery #82



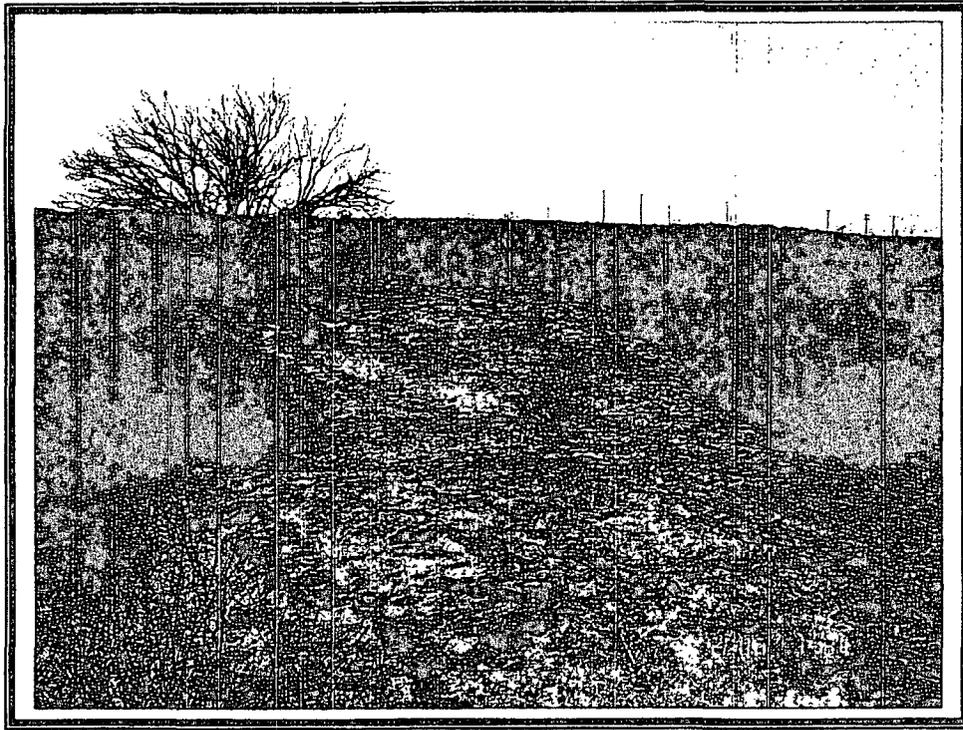
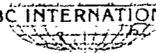
Graham Resources Laughlin Battery #82



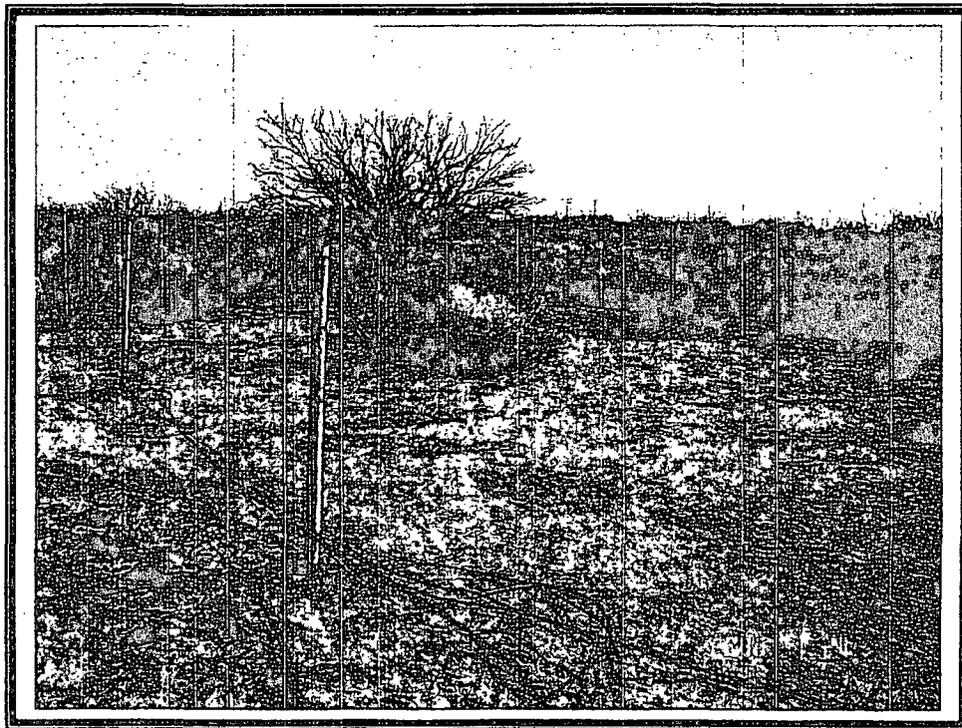
Graham Resources Laughlin Battery #82



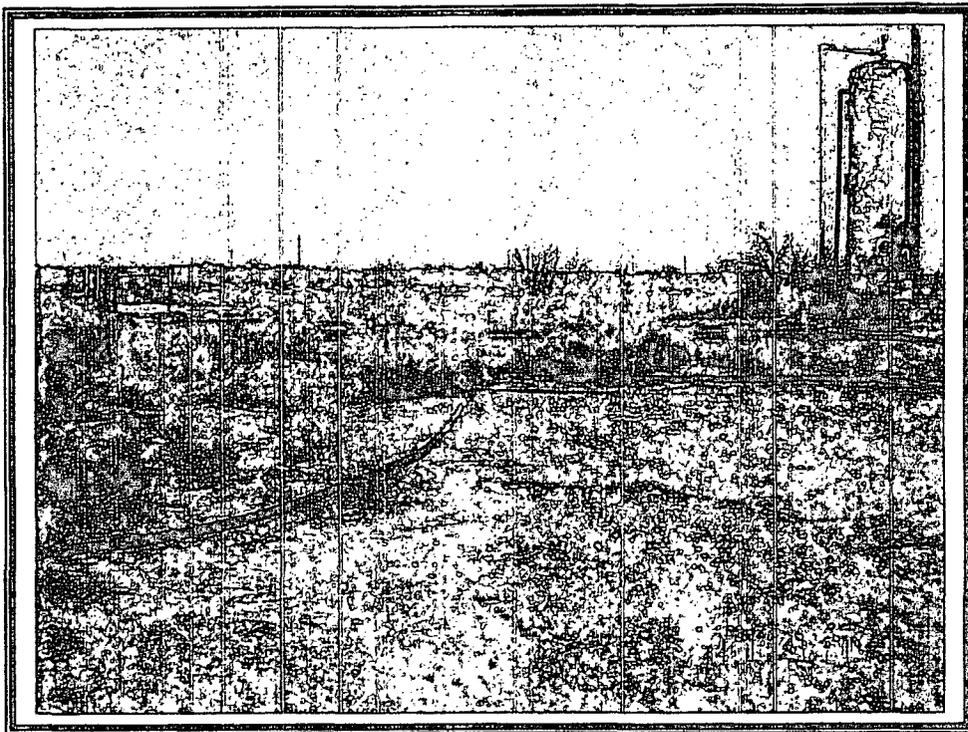
Graham Resources Laughlin Battery #82



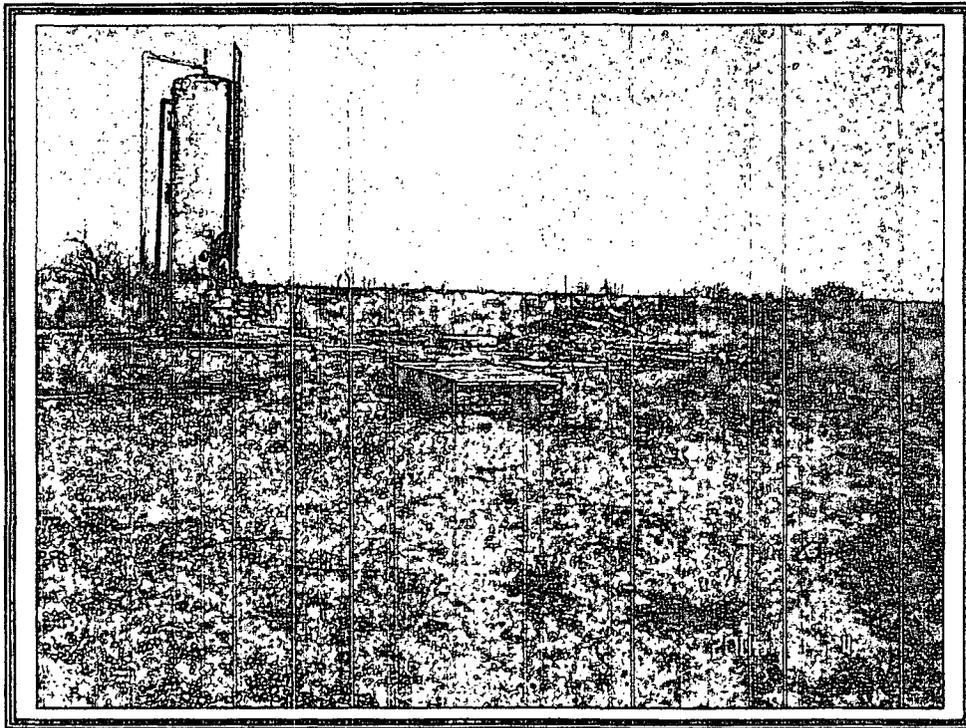
Graham Resources Laughlin Battery #82



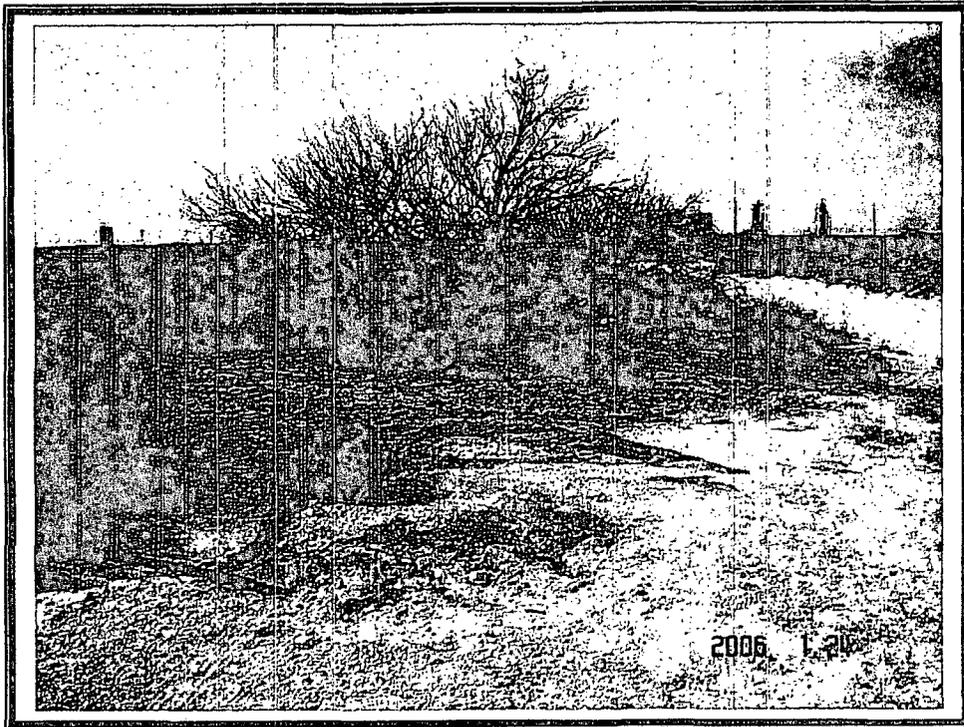
Graham Resources Laughlin Battery #82



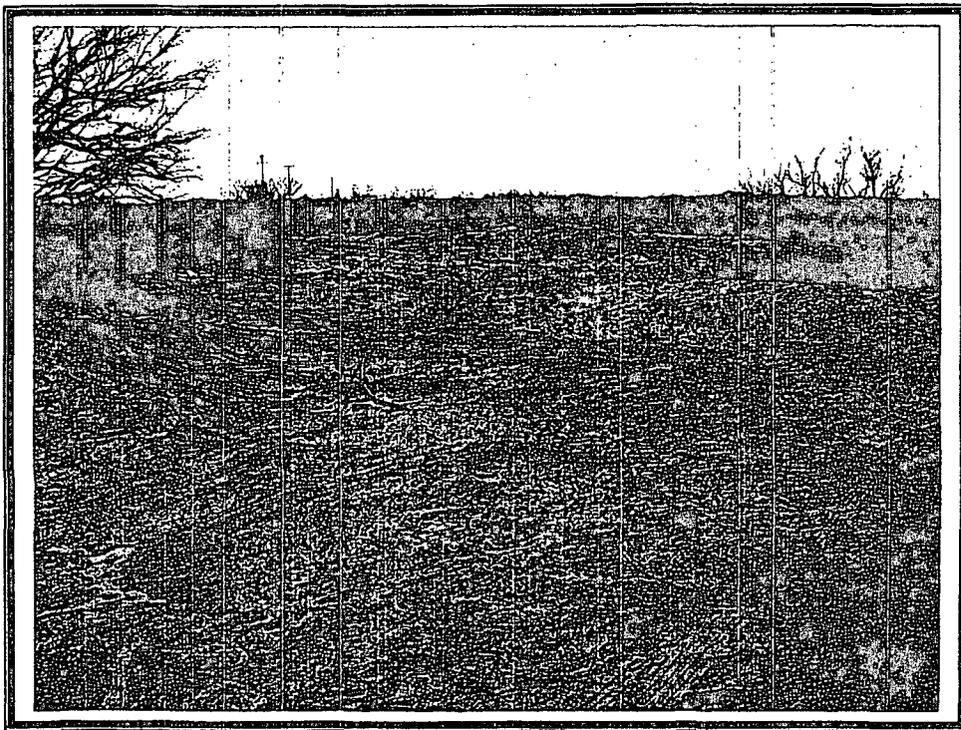
Graham Resources Laughlin Battery #82



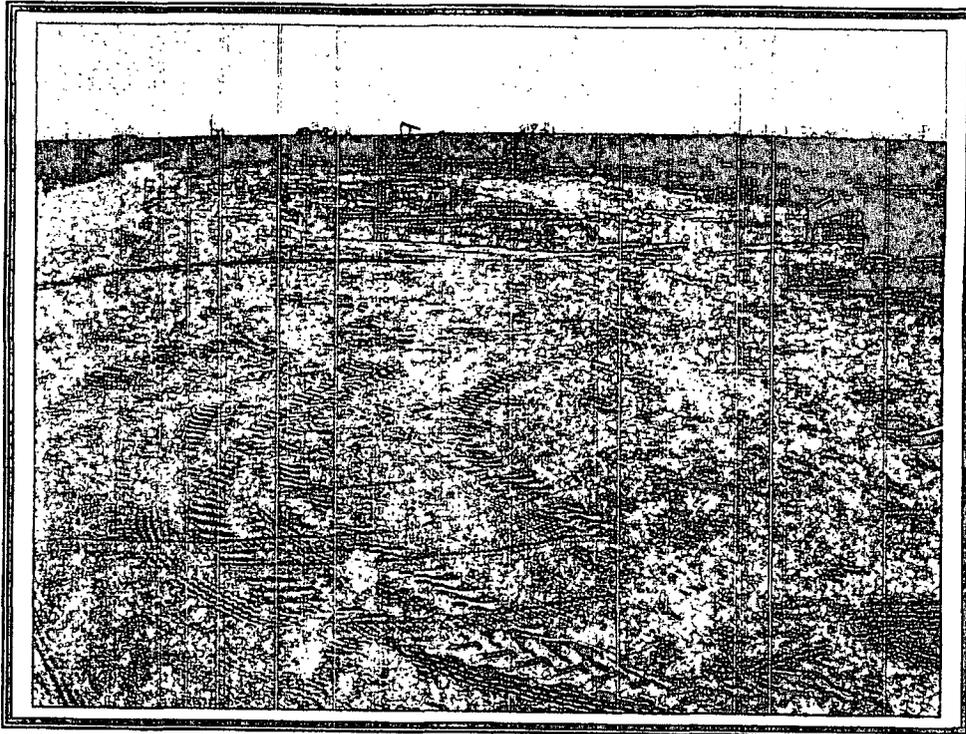
Graham Resources Laughlin Battery #82



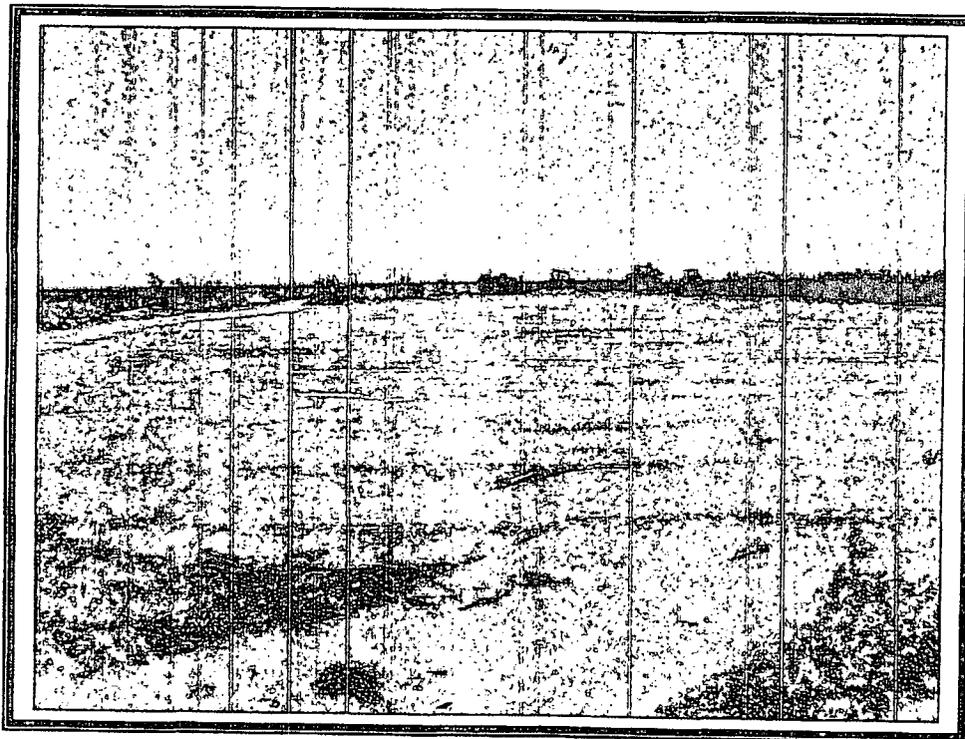
Graham Resources Laughlin Battery #82



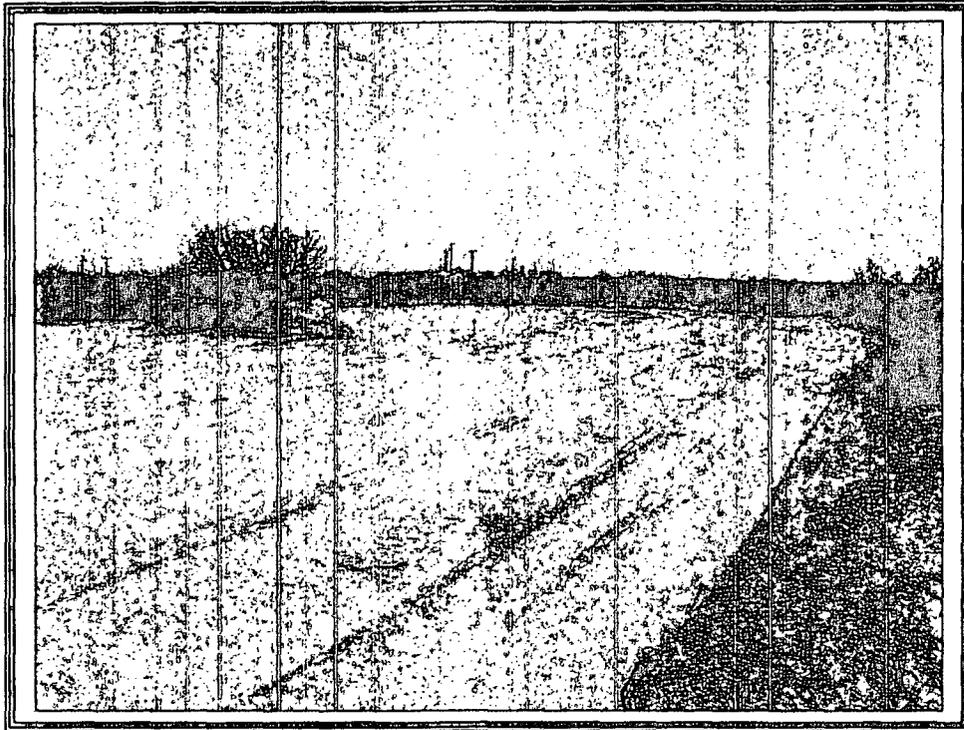
Graham Resources Laughlin Battery #82 burn pit



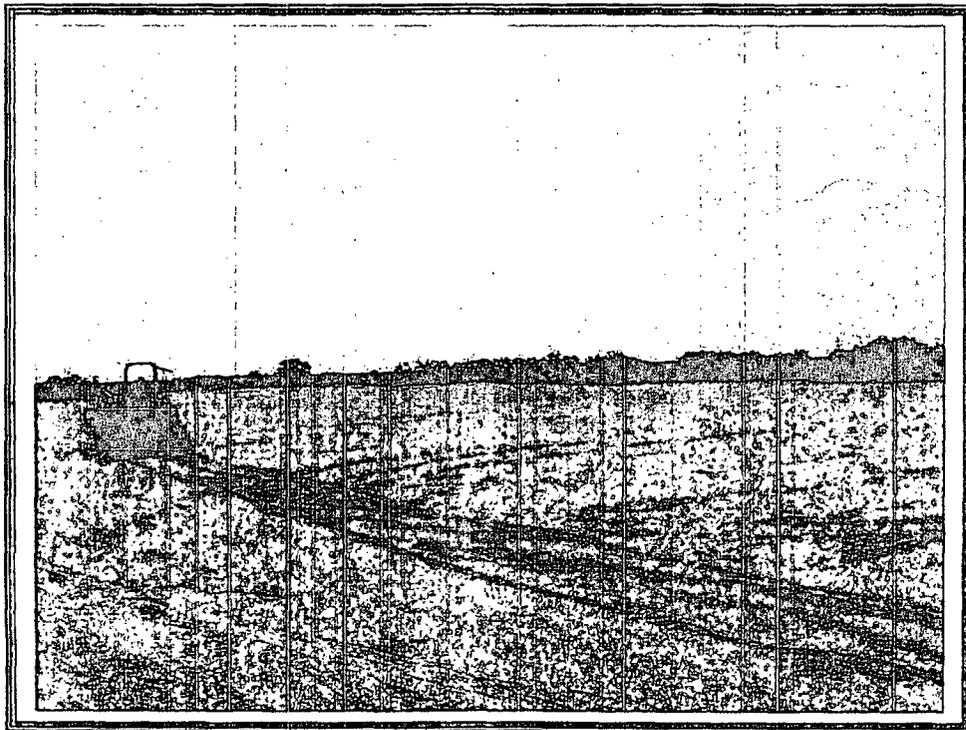
Graham Resources Laughlin Battery #82 after excavation complete



Graham Resources Laughlin Battery #82 after backfill



Graham Resources Laughlin Battery #82 burn pit and east end of battery after backfill



Graham Resources Laughlin Battery #82 reseeding



Graham Resources Laughlin Battery #82 reseeded

# APPENDIX IV

---

## Correspondences

### Graham Resources Laughlin Battery #82 Monument, New Mexico

Prepared for:  
Hess Corporation  
Seminole, Texas

June, 2006

Prepared by:  
BBC International, Inc.

**Amy C. Ruth**

---

**From:** Amy C. Ruth [Amy@bbcinternational.com]  
**Sent:** Thursday, March 09, 2006 12:16 PM  
**To:** 'psheeley@state.nm.us'  
**Cc:** 'rbarnes@hess.com'; 'jbaker@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)  
**Subject:** Sampling Events - Amerada Hess Monument Abandoned Batteries

Paul,

BBC collected samples for Amerada Hess at the Chevron Kutter "A" Battery 24 on March 3, 2006 from the bottom of the excavated area. Of those samples, all results of analyses were within guidelines with the exception of one sample in the north central portion of the site that had an elevated TPH result. Amerada has excavated this area, and BBC will resample the floor of the north central part of the excavation on Monday, March 13, 2006 at 9:30 am. The site is located about a mile north of Monument, just off of Highway 8 to the west.

After the sample is collected from the Chevron Kutter "A" Battery 24, BBC will proceed from that site to the Graham Resources Laughlin Battery 82 located about two miles south of Monument, NM and off of Highway 8 to the west. BBC will collect samples from the bottom of the excavation.

Following are legals and GPS coordinates for your convenience. **Please call me if you have questions.** Thank you.

**Chevron Kutter "A" Battery 24**

NW, SE, Sec 20, T-19S, R-37E

N 32° 38.540'  
W 103° 16.295'

**Graham Resources Laughlin Battery 82**

Sec 5, T-20S, R-37E

N 32° 35.780'  
W 103° 16.205'

**Amy C. Ruth**  
Environmental Scientist  
BBC International, Inc.  
Phone: 505-397-6388  
Cell: 505-441-5252

**Amy C. Ruth**

---

**From:** Amy C. Ruth [Amy@bbcinternational.com]  
**Sent:** Friday, March 17, 2006 10:43 AM  
**To:** 'psheeley@state.nm.us'  
**Cc:** 'rbarnes@hess.com'; 'jbaker@hess.com'; 'Cliff P. Brunson'; Jennifer (jgilkey@bbcinternational.com)  
**Subject:** Drilling and Sampling Event - Amerada Hess Graham Resources Laughlin Battery #82

Paul,

BBC International, Inc. will conduct drilling and sampling on Monday March 20, 2006 at 8:00 am for Amerada Hess at the site of a former burn pit on the southwestern side of the Graham Resources Laughlin Battery 82. The excavated battery is located two miles south of Monument, NM and off of Highway 8 to the west. Following are legals and GPS coordinates for your convenience. ***Please call me if you have questions.*** Thank you.

**Graham Resources Laughlin Battery 82**

Sec 5, T-20S, R-37E

N 32° 35.780'

W 103° 16.205'

**Amy C. Ruth**  
Environmental Scientist  
BBC International, Inc.  
**Phone: 505-397-6388**  
**Cell: 505-441-5252**

**Amy C. Ruth**

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**From:** Barnes, Randy [RBarnes@Hess.com]  
**Sent:** Friday, March 24, 2006 8:34 AM  
**To:** psheeley@state.nm.us  
**Cc:** Baker, Jay; jgikey@bbcinternational.com; Amy@bbcinternational.com  
**Subject:** Closing Sampling Amerada Hess Abandoned Batteries

BBC International, Inc. will take closing samples at the Amerada Hess abandoned battery Oryx JL Barr battery 13 at 8:00am Wednesday morning, March 29th, 2006. The site is located northwest of the intersection of Maddox road and Pearl Valley at Monument, NM.

Immediately following, BBC will proceed to the Texaco Skelly 'F' State battery 27 site to collect closing samples from that location as well. The Texaco 'F' is located east of the Oryx JL Barr across Maddox road or south on hwy, 8 approx. 5 miles and turn back to the west.

Immediately following, BBC will proceed to the Graham Laughlin Battery 82 site to collect closing samples from that location as well. BBC collected closing samples on March the 3rd from the bottom of the excavated area. Of those samples, all were under required limits with the exception of one sample at the southwest corner. This sample had a TPH-DRO level of 314ppm. Amerada Hess has excavated this area, and BBC will resample the floor of the southwest corner at this time. This site is located two miles south of Monument, NM and off of Highway 8 to the west.

The following are legals and GPS coordinates for your convenience. Please call me if you have questions. Thank you.

**Oryx JL Barr battery 13**

Unit Letter M, Sec 24, T-19S, R-36E  
N 32 $\phi^a$  38.537'  
w 103 $\phi^a$  18.834'

**TEXACO SKELLY 'F' STATE BATTERY**

Unit Letter G, Sec 20, T-19S, R-37E  
N 32 $\phi^a$  39.075'  
W 103 $\phi^a$  16.727'

**GRAHAM LAUGHLIN BATTERY 82**

Unit Letter P, Sec 5, T-20S, R-37E  
N 32 $\phi^a$  35.780'  
W 103 $\phi^a$  16.205'

*Randy Barnes*  
Production Supervisor  
Amerada Hess Corporation  
*rbarnes@hess.com*

432-209-4240

SLM Serial #: NM-03622  
 Company Reference: Gruy Petroleum Management Company  
 Well name and Number: Scout 18 Federal # 1

*Seed Mixture for LPC Sand/Shinnery Sites*

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

\*\*Four-winged Salthush 5lbs/A

\* This can be used around well pads and other areas where caliche cannot be removed.

\*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

## Safety Protocol:

1. All work will be performed in a safe manner.
2. A tailgate safety meeting will be conducted each morning prior to initiation of work. A *limited hazard analysis* will be done based on the scheduled tasks.
3. No excavation or sampling will be performed without clearing the area of utility lines.
4. Boom up/down will not be performed without visual confirmation that the overhead area is clear of obstructions.
5. Call sheet and directions to local hospital will be available to all on-site personnel.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company Hess Corporation	Contact Randy Barnes	E MAIL ?
Address P.O. Box 840, Seminole, TX 79360	Telephone No. (432) 758-6778	
Facility Name Graham Resources Laughlin Battery #82	Facility Type Abandoned Tank Battery	

Surface Owner	Mineral Owner	Lease No.
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**LOCATION OF RELEASE**

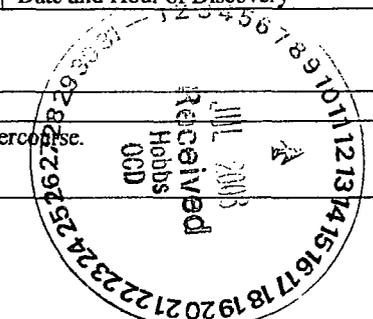
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	5	20S	37E					

29'

Latitude 32° 35.780' Longitude 103° 16.205'

**NATURE OF RELEASE**

Type of Release Historical	Volume of Release Unknown	Volume Recovered Unknown
Source of Release Unknown	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Hydrocarbon contamination of soil by oil production activities. Site investigation was conducted in preparation for cleanup activities. Multiple soil samples were collected and sent to a laboratory for analyses. A remediation plan was developed.

Describe Area Affected and Cleanup Action Taken.\*  
Contaminated soil was removed from the site and taken to a NMOCD approved landfarm. Before backfilling, closing samples were collected to confirm compliance to guidelines. The site was backfilled with clean soil, contoured, and reseeded.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Amy C. Ruth</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Amy C. Ruth	Approved by District Supervisor <i>[Signature]</i>	
Title: Environmental Scientist	Approval Date: 7.12.06	Expiration Date: —
E-mail Address: amy@bbcinternational.com	Conditions of Approval: —	Attached <input type="checkbox"/>
Date: 6/20/06	Phone: (505) 397-6388	

\* Attach Additional Sheets If Necessary

IN FUTURE: - SITE RANKING w/ REQUIRED CLEANUP ON P3 I - PIX ARE GOOD!  
- LIST ALL SAMPLES IN TABLE FORMAT w/ DEPTH LISTED - E-MAIL ATTACHMENTS GOOD IDEA