

1R - 427-227

REPORTS

DATE:

4-1-08

EME Laughlin 'A' EOL

IR 427-227

CLOSURE

4-1-08

JUNCTION BOX FINAL REPORT

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX DIMENSIONS - FEET		
							Length	Width	Depth
							Eunice-Monument-Eumont (EME)	Laughlin 'A' EOL	0

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

Sample Date	n/a	Sample Depth	n/a
-------------	-----	--------------	-----

CHLORIDE FIELD TESTS

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	no samples collected by Rice Operating Company			
BOTTOM COMP.				
BACKFILL				

LOCATION	DEPTH (ft)	ppm
	<i>no samples collected by Rice Operating Company</i>	

This junction box was located within a production battery that has been abandoned. This

junction has been eliminated and the site was encompassed within the excavation and remediation of the battery by the producer in 2006. The surface of this site has returned to productive capacity and no further investigation by Rice Operating is warranted.

enclosures: photos, 6/20/2006 battery closure report

TITLE Project Scientist /



undisturbed junction box

8/19/2003

EME 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
WEBSITE: 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 - FPAC0620926082
incident - nPAC062096262
amendment - pPAC062096350*

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)

Pace

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

Site Diagrams

Graham Resources Laughlin Battery #82 Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

June, 2006

Prepared by:
BBC International, Inc.

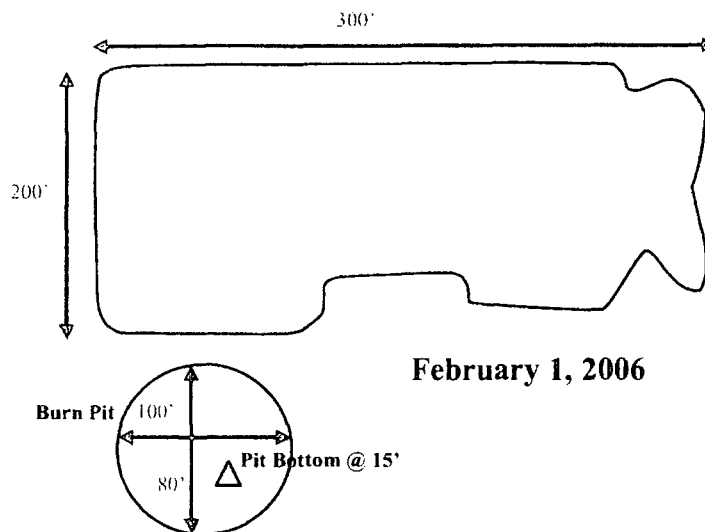
Hess Corporation

Graham Resources Laughlin Battery #82

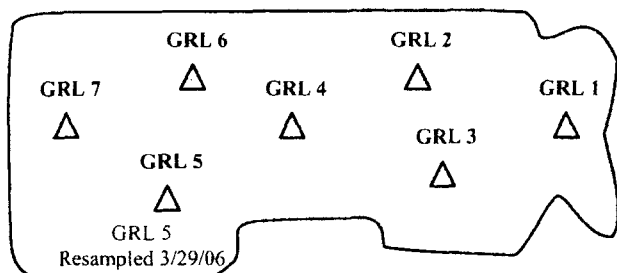
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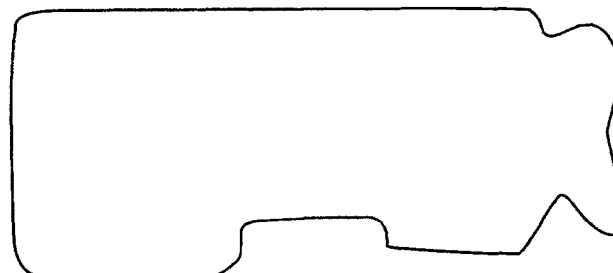
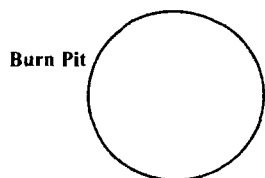
N



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

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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, 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 ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (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-ClB

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

Chemist

Date

H10694A.XLS

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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	TOTAL			
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	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

ARDINAL LABORATORIES, INC.

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Page 1 of 1[illegible]

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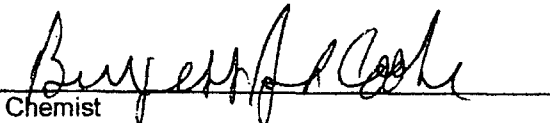
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Reporting Date: 03/18/06
Project Number: MONUM 04ES003
Project Name: GRAHAM RESOURCES LAUGHLIN BATTERY 82
Project Location: MONUMENT, NM

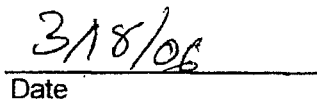
Sampling Date: 03/13/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(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; CI: Std. Methods 4500-CI'B

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


Chemist


Date

H10890A.XLS

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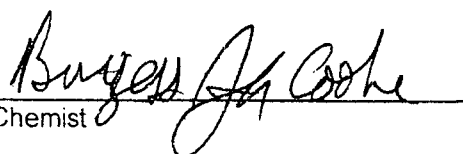
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC
ATTN: CLIFF BRUNSON
1324 WEST MARLAND
HOBBS, NM 88240
FAX TO: 505-397-0397

Receiving Date: 3/14/06
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

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

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

Date _____

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ANALYTICAL RESULTS FOR
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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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Page 1 of 1

ANALYSIS REQUEST

Company Name:	BBC International, Inc.		
Project Manager:	Cliff Brunson		
Address:	1324 W. Maryland	State:	MD
City:	Hobbs	State:	NM
Phone #:	505-397-6388	Fax #:	505-397-0397
Project #:	MONUM 04ES033		
Project Name:	Graham R. Laughlin Battery 82		
Project Location:	Monument		
Sampler Name:	Amy Ruth		

FOR USE ONLY

Label

Sample I.D.

411910-1	GR #5
----------	-------

DATE	TIME
3/29/06	8:19 am

Chloride
TPH 80
BTEX

Term and Conditions in use will be changed in accordance with the 30 days paid due to the rate of 2.5% per annum from the original date of purchase, and all costs in collections. We have necessary's line.

PLEASE NOTE: Liberty and Demosafe Cardiac's ability and don't guarantee remedy for any claim arising whether made in contract or tort, shall be limited to the amount paid by the client for the services rendered.

Sampled by: [redacted]

Received By:

Notes:

Received By: _____

Received By: (Lab Staff)

Date: 3/20/06

Time: 7:31 PM

Delivered By: (Circle One)

Sample Condition	
Cool, Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

CHECKED BY:
(Initials)

~~Sample~~ - IPS - Bus - Other:

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



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ANALYTICAL RESULTS FOR
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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)
H10916-1	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 LaCorte
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

Chemist

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 ⁻ (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⁻B

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

Lupe S. Moreno
Chemist

03-27-06
Date

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ATTN: CLIFF BRUNSON
P.O. BOX 805
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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 ⁻ (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⁻B

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


Chemist

03-27-06
Date

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ANALYTICAL RESULTS FOR
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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

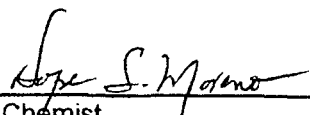
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl ⁻ (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⁻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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Page 1 of 3

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: 1324 W. Maryland City: Hobbs State: NM Zip: 88240 Phone #: 505-397-6388 Fax #: 505-397-0397 Project #: MANUM MTS0003 Project Owner: Amerada Hess Project Name: Graham Resources Laughlin Burn Pit Project Location: Monument Sampler Name: Amy Ruth		P.O. #: 45-157648 Company: Amerada Hess Attn: Randy Barnes Address: City: Seminole State: TX Zip: Phone #: Fax #: BILL TO		ANALYSIS REQUEST	
Sample I.D.		Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> CRUDE OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:			
Lab I.D.		PRESERV: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> OTHER:			
Sample I.D.		DATE TIME			
H10916-1 SB1 3'		3/20/06 11:15 am			
-2 SB1 5'		3/20/06 11:19 am			
-3 SB1 10'		3/20/06 11:31 am			
-4 SB1 15'		3/20/06 11:42 am			
-5 SB1 20'		3/20/06 11:51 am			
-6 SB1 25'		3/20/06 12:05 pm			
-7 SB1 30'		3/20/06 12:25 pm			
-8 SB2 3'		3/20/06 1:35 pm			
-9 SB2 5'		3/20/06 1:40 pm			
-10 SB2 10'		3/20/06 1:52 pm			
Relinquished By: Amy Ruth		Received By: Lab Staff			
Date: 3/21/06		Date: 3/21/06			
Time: 5:15 pm		Time: 5:15 pm			
Delivered By: (Circle One)		Checked By: (Initials)			
Sampler - UPS - Bus - Other:		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact			

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

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Page 2 of 3

ANALYSIS REQUEST																											
Company Name: BBC International, Inc.		BILL TO																									
Project Manager: Cliff Brunson	P.O. #: 45-157648																										
Address: 1324 W. Maryland	Company: Amerada Hess																										
City: Hobbs	Attn: Randy Barnes																										
Phone #: 505-397-6388	State: NM zip: 88240																										
Fax #: 505-397-0397	Address:																										
Project #: MANUM 0453003	Project Owner: Amerada Hess																										
Project Name: Graham Resources Laughlin Burn Pit	City: Seminole																										
Project Location: Monument	State: TX zip:																										
Sampler Name: Amy Ruth	Phone #:																										
FOR LAB USE ONLY	Fax #:																										
Lab I.D.	Sample I.D.	MATRIX				PRESERV.		SAMPLING		DATE	TIME	OTHER:	ICE / COOL	ACID/BASE:	OTHER:	SLUDGE	CRUDE OIL	WASTEWATER	# CONTAINERS	(G) RAB OR (C) COMP.	Chloride	TPH	MOD	BTEX			
		GROUNDEWATER	SOIL	GROUNDEWATER	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:																		
H10916-11 SB2 15'											3/20/06	200pm								1							
-12 SB2 20'											3/20/06	207pm								1							
-13 SB3 3'											3/20/06	223pm								1							
-14 SB3 5'											3/20/06	227pm								1							
-15 SB3 10'											3/20/06	234pm								1							
-16 SB3 15'											3/20/06	240pm								1							
-17 SB3 20'											3/20/06	245pm								1							
-18 SB4 3'											3/20/06	305pm								1							
-19 SB4 5'											3/20/06	310pm								1							
-20 SB4 10'											3/20/06	318pm								1							
<small>PLEASE NOTE: Liquids and slurries must be shipped immediately for any claim arising whether based in contract or tort, that be limited to the amount paid by the client for the service. All other testing fees for reanalysis and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event will Card be held liable for residential or non-commercial purposes, including without limitation, business transactions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors resulting out of or caused in the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Sampler Relinquished:		Date:		Received By:		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:		REMARKS:													
Relinquished By: Amy Ruth		Date: 3/21/06 Time: 5:15pm		Received By: Nick Tuller		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Checked By: (Initials) N/A																			
Delivered By: (Circle One)																											
Sampler - UPS - Bus - Other:																											

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

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Page 3 of 3

[illegible]

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APPENDIX III

Site Photographs

Graham Resources Laughlin Battery #82 Monument, New Mexico

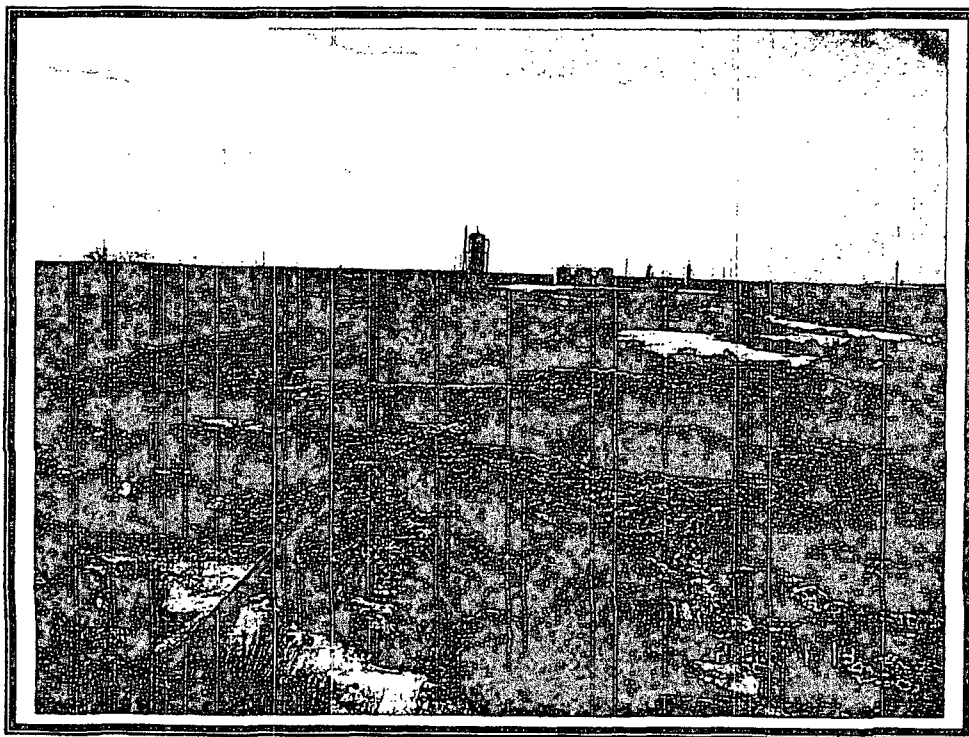
Prepared for:
Hess Corporation
Seminole, Texas

June, 2006

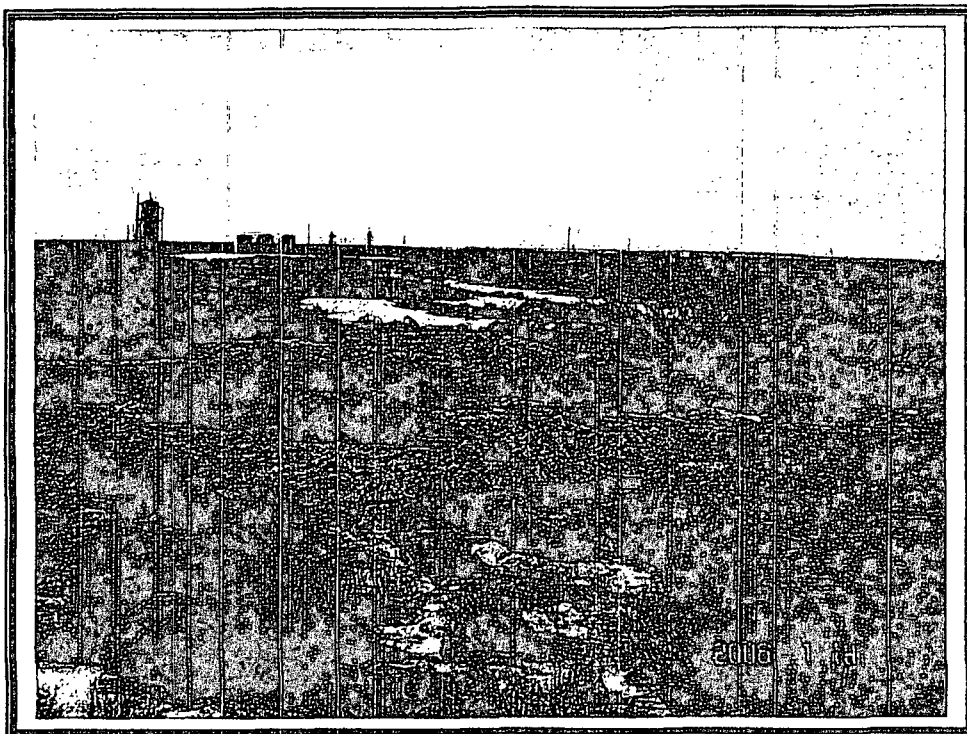
Prepared by:
BBC International, Inc.



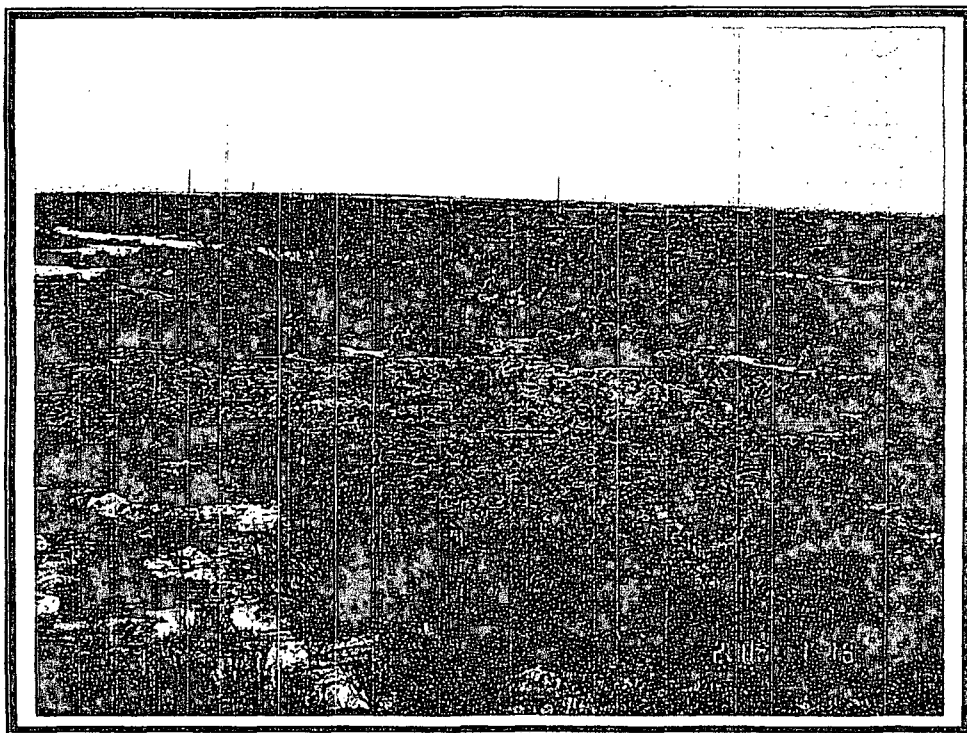
Graham Resources Laughlin Battery #82



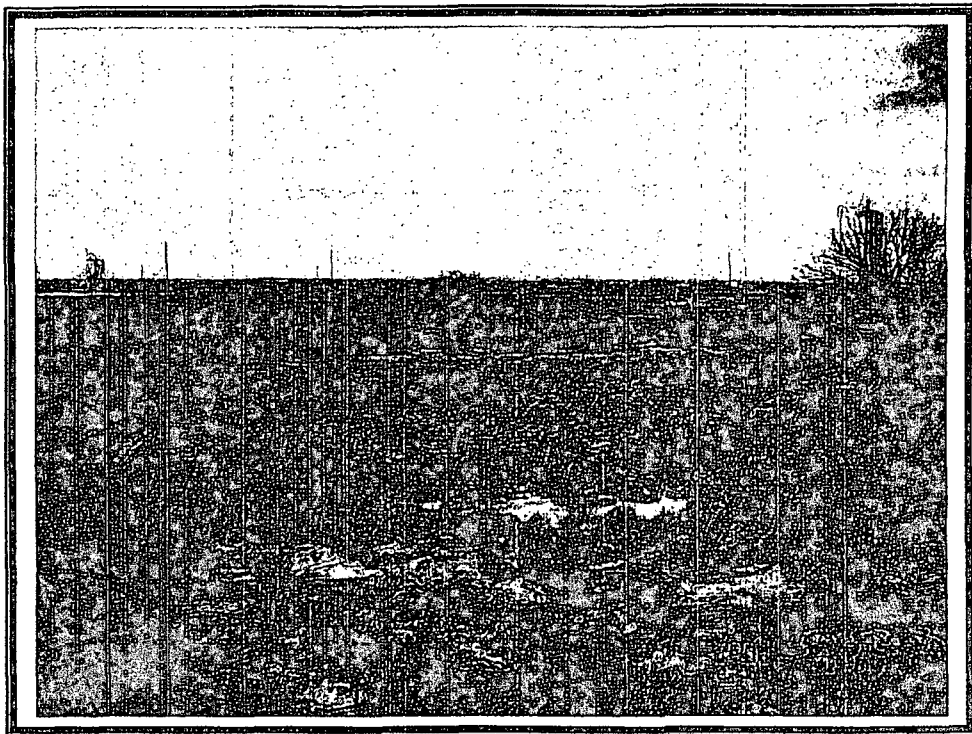
Graham Resources Laughlin Battery #82



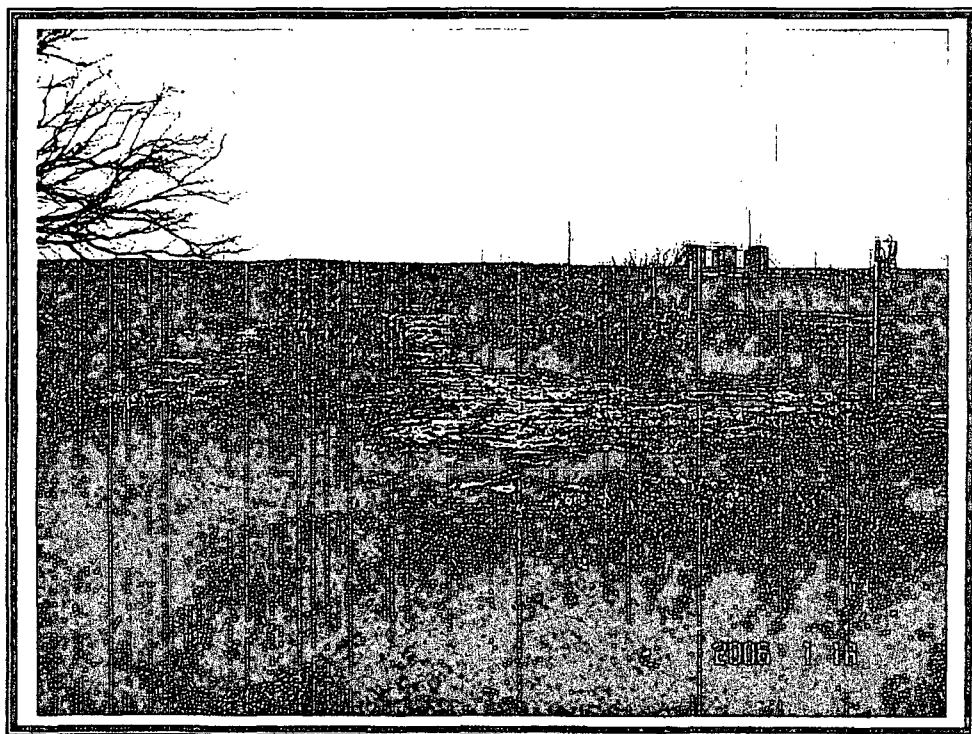
Graham Resources Laughlin Battery #82



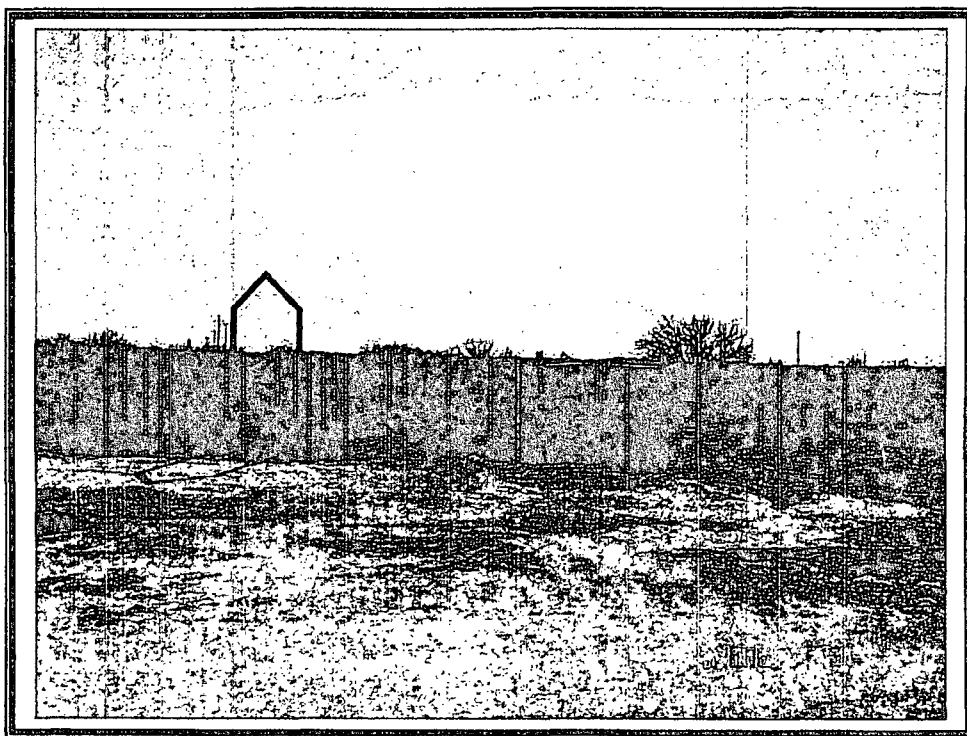
Graham Resources Laughlin Battery #82



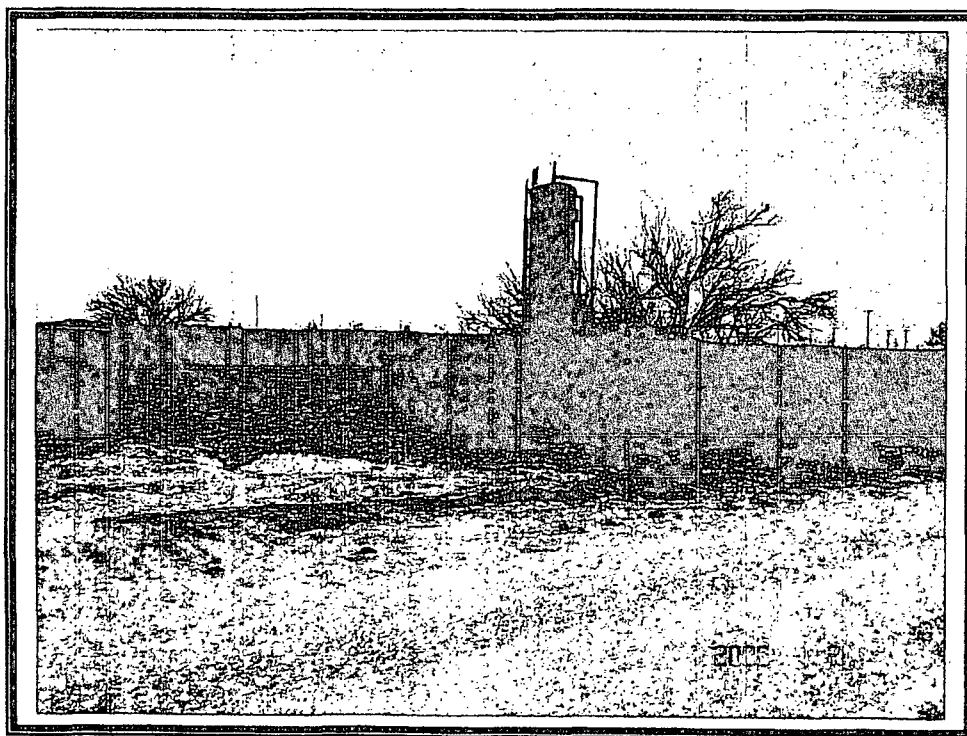
Graham Resources Laughlin Battery #82 burn pit



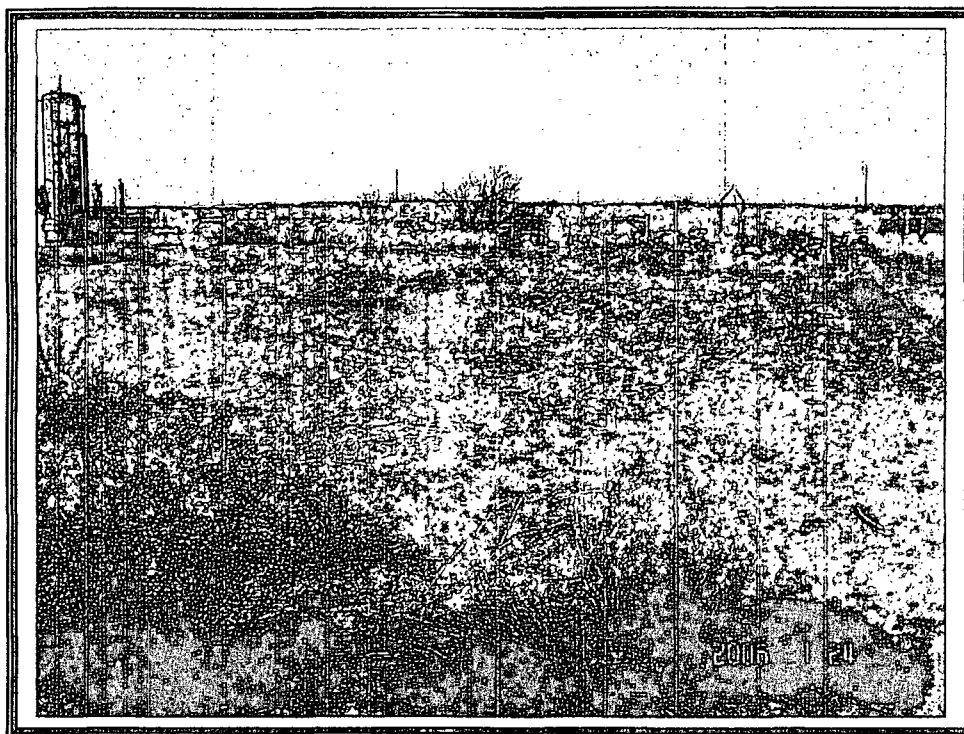
Graham Resources Laughlin Battery #82



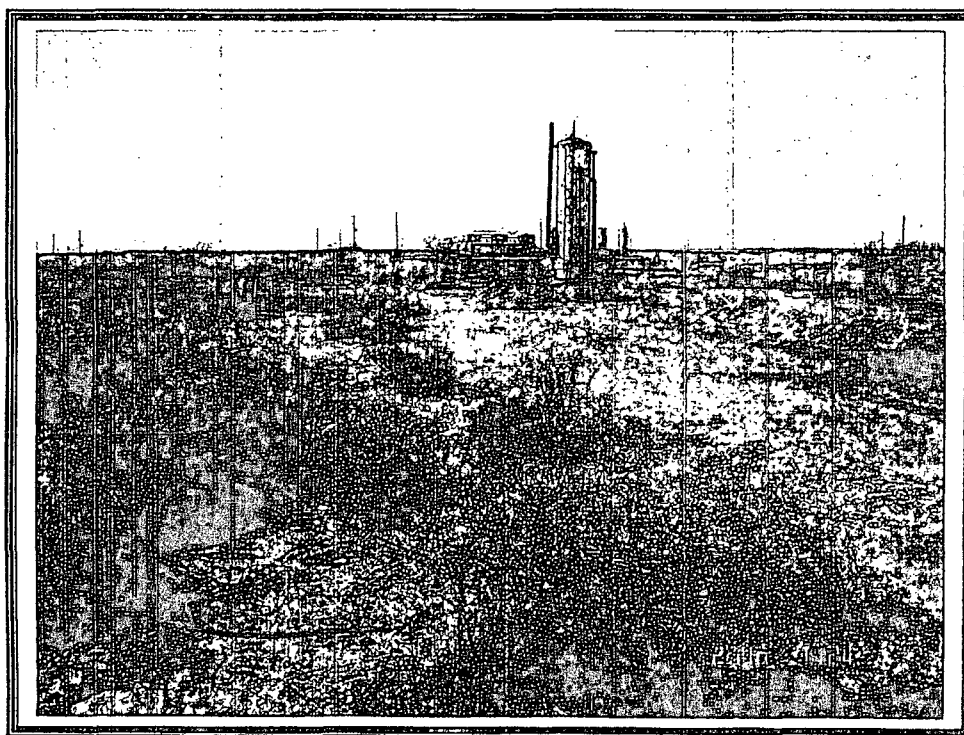
Graham Resources Laughlin Battery #82



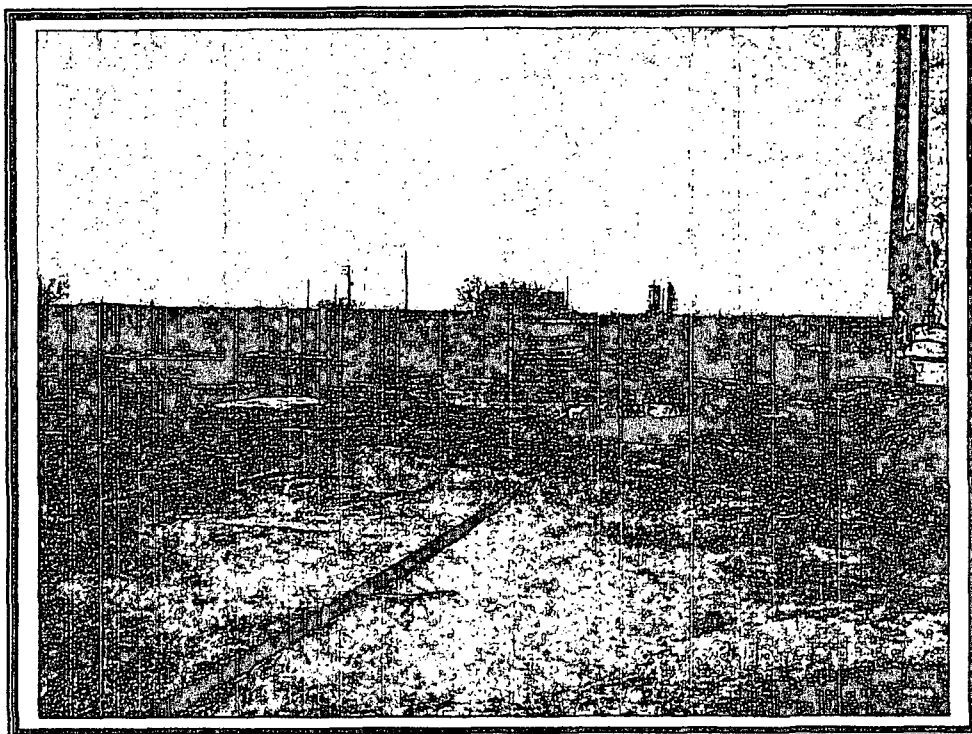
Graham Resources Laughlin Battery #82



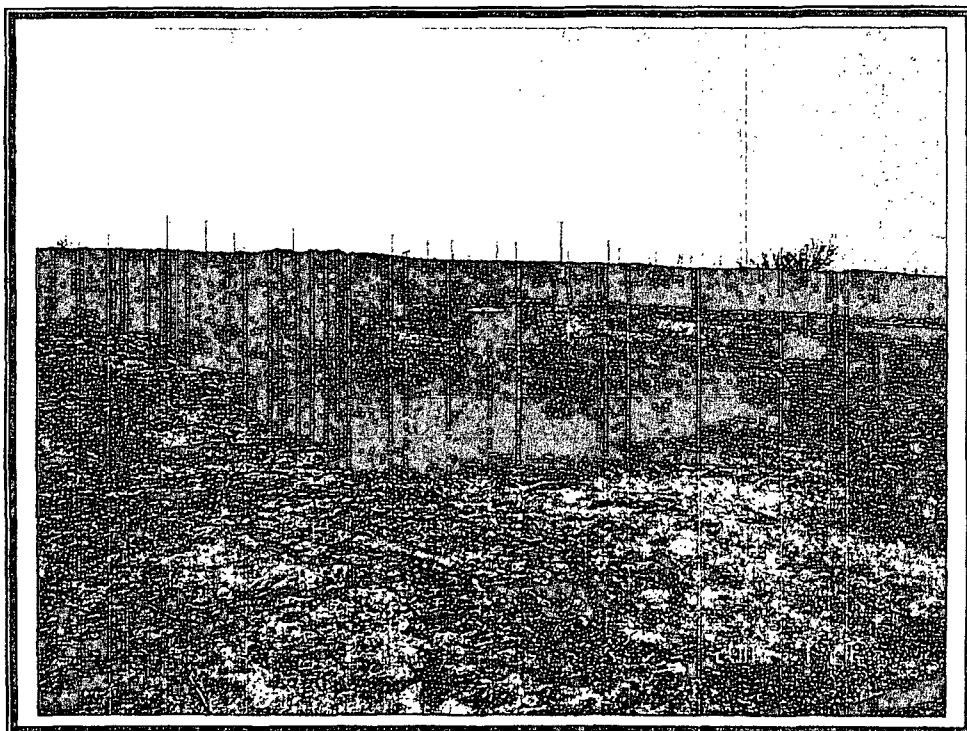
Graham Resources Laughlin Battery #82



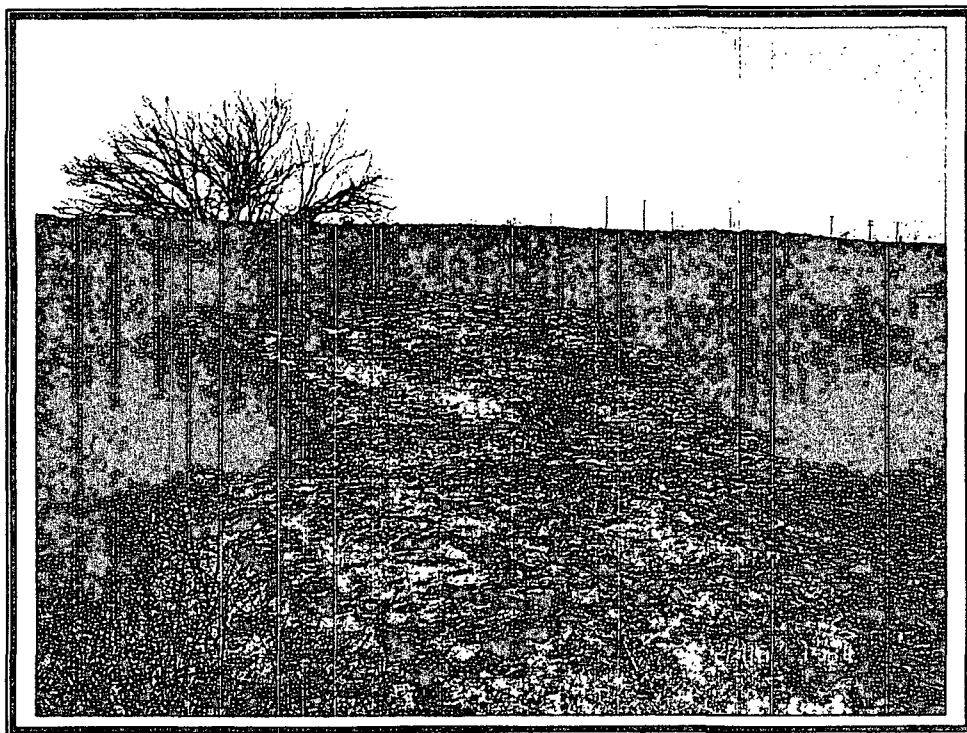
Graham Resources Laughlin Battery #82



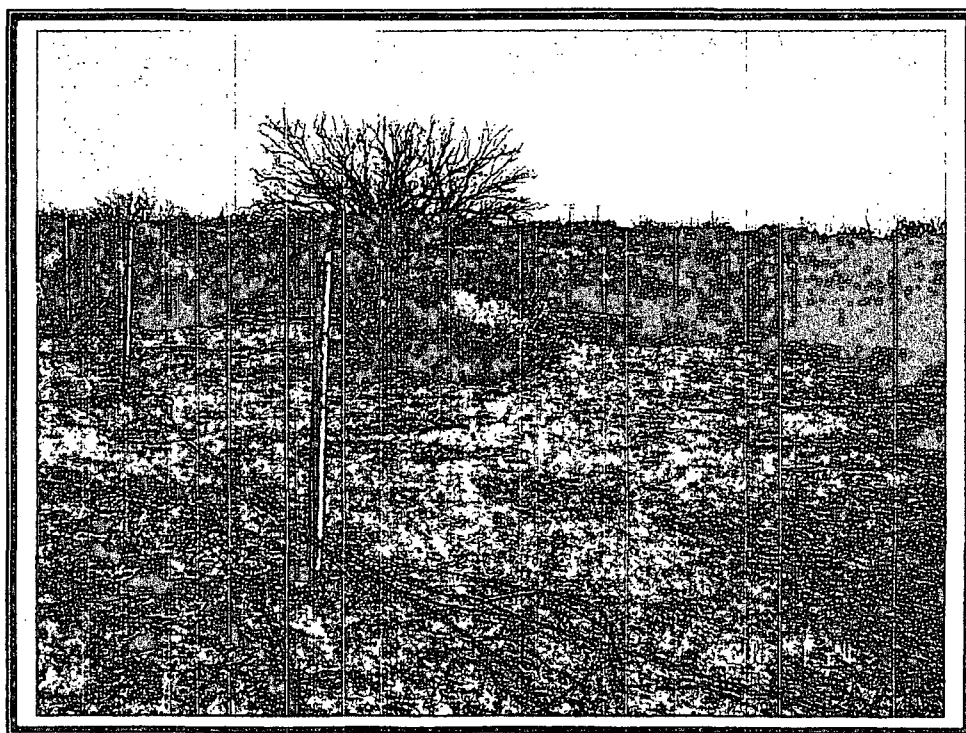
Graham Resources Laughlin Battery #82



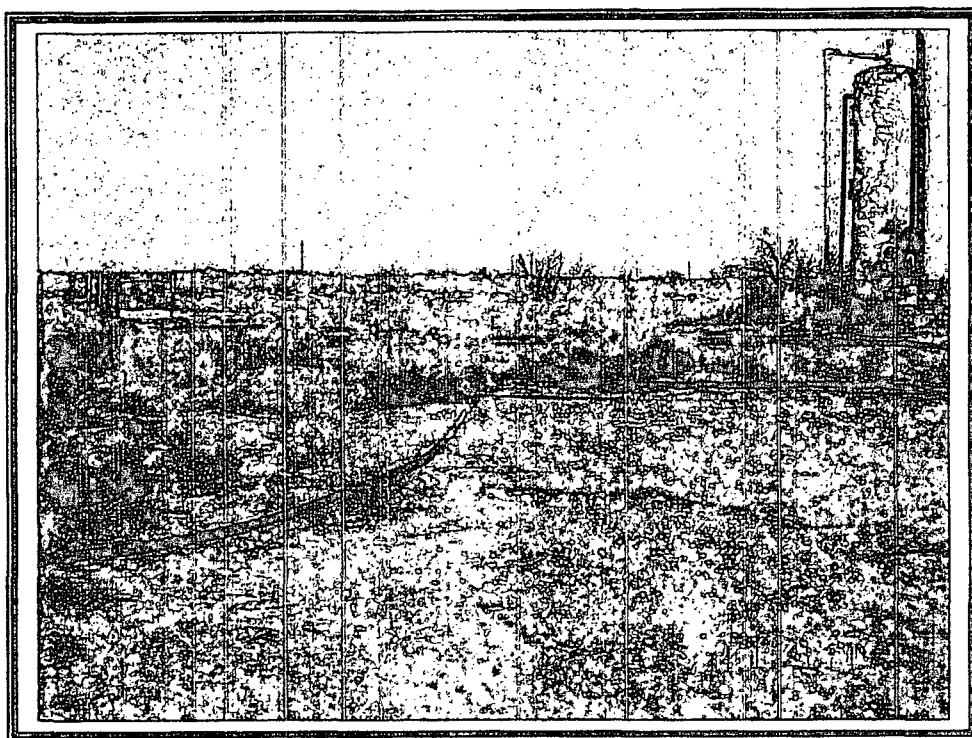
Graham Resources Laughlin Battery #82



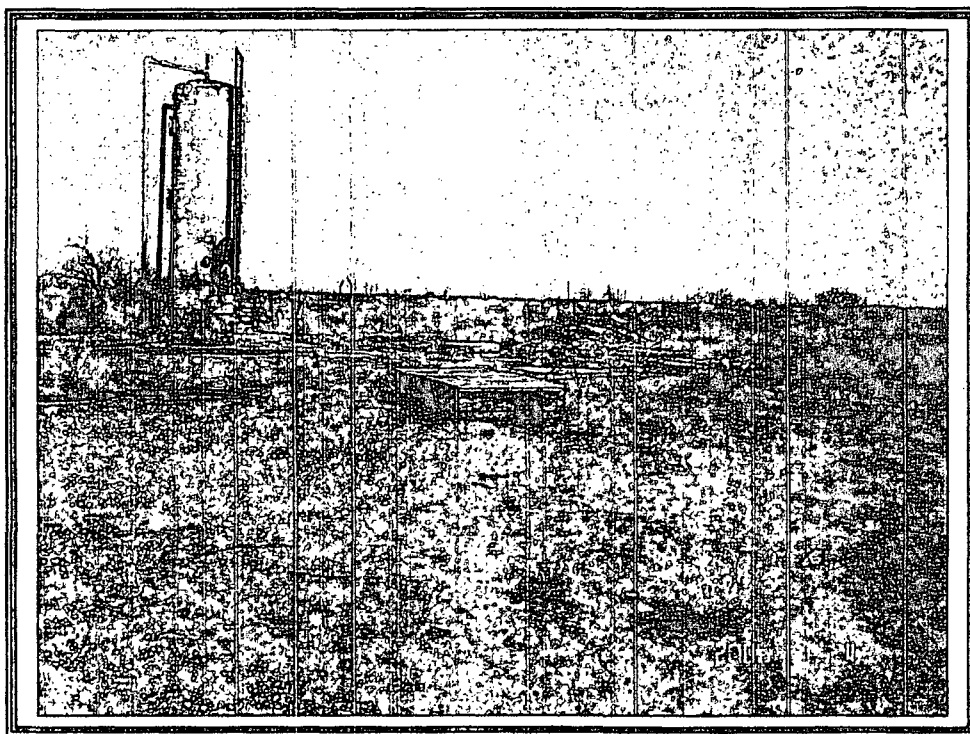
Graham Resources Laughlin Battery #82



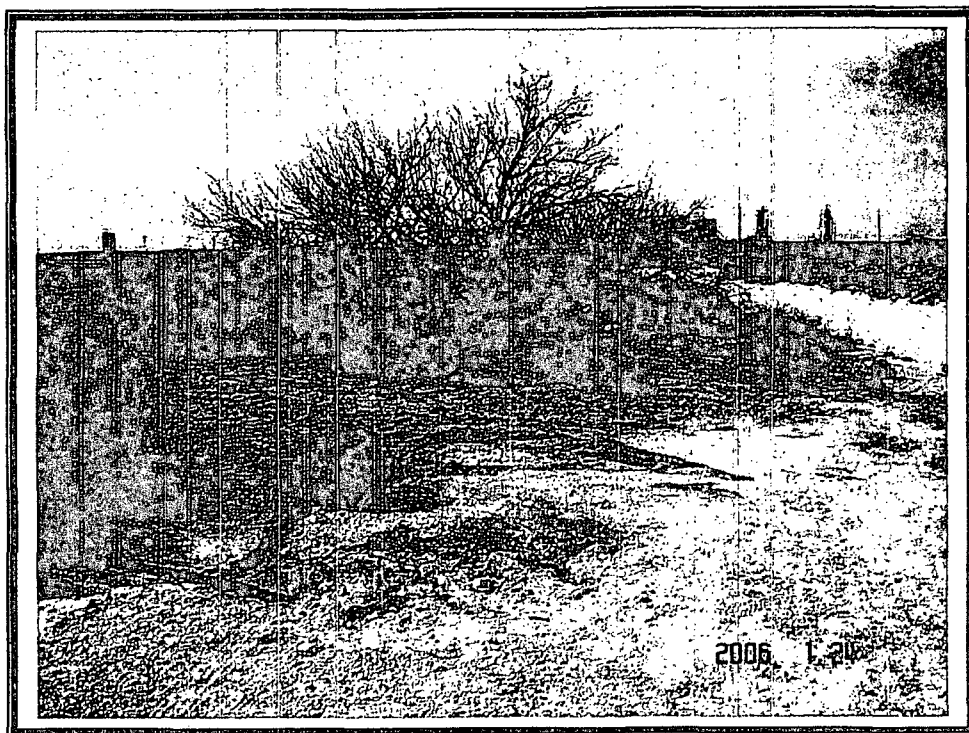
Graham Resources Laughlin Battery #82



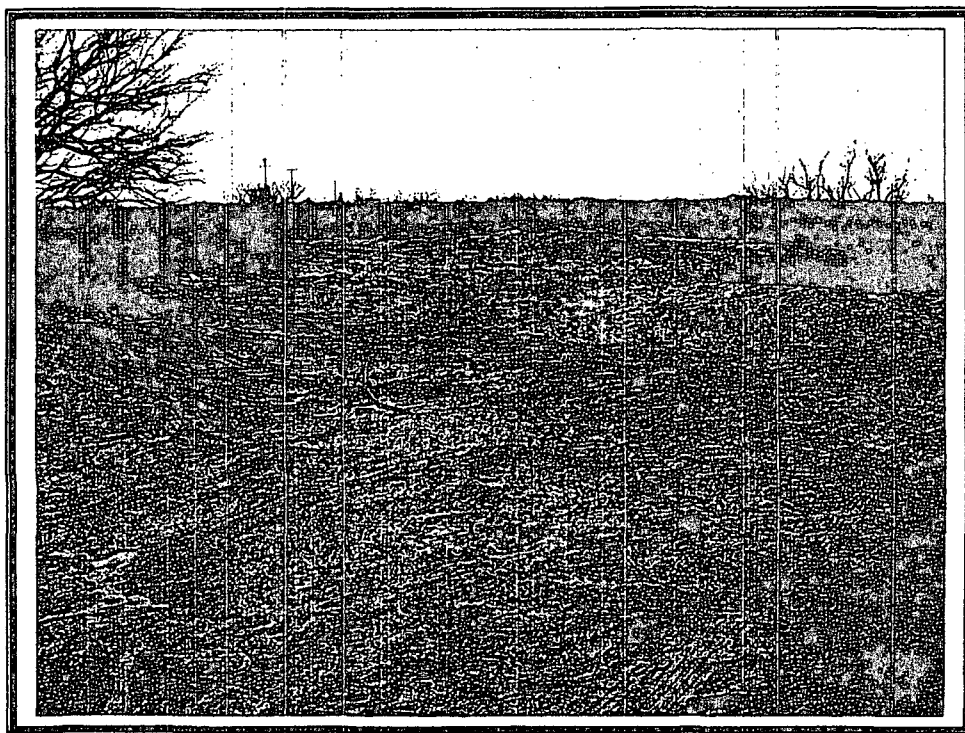
Graham Resources Laughlin Battery #82



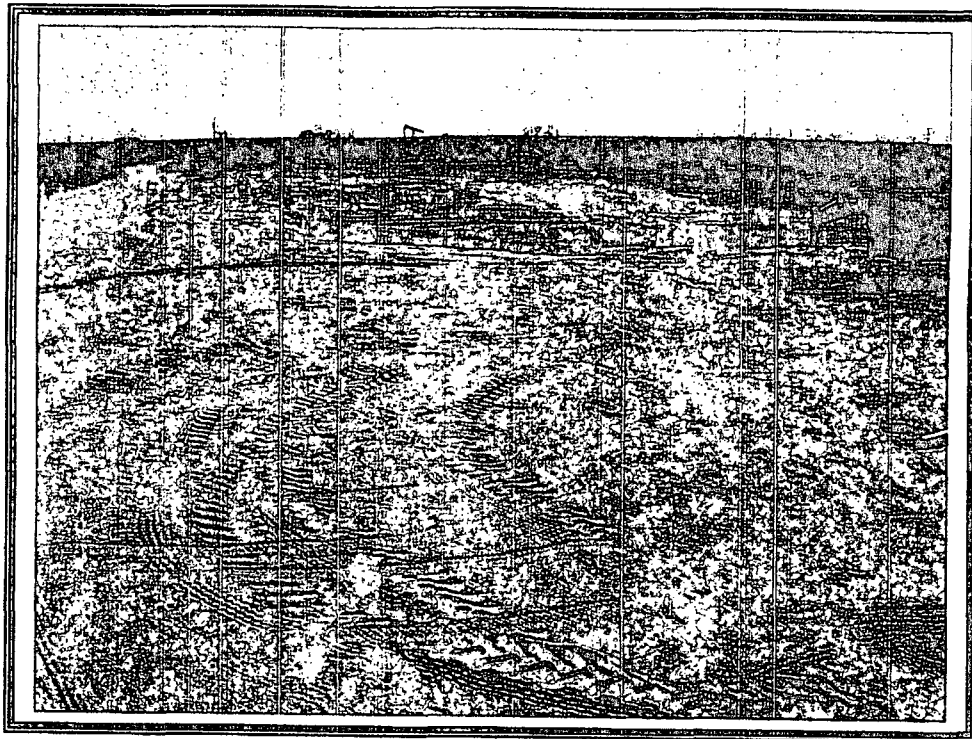
Graham Resources Laughlin Battery #82



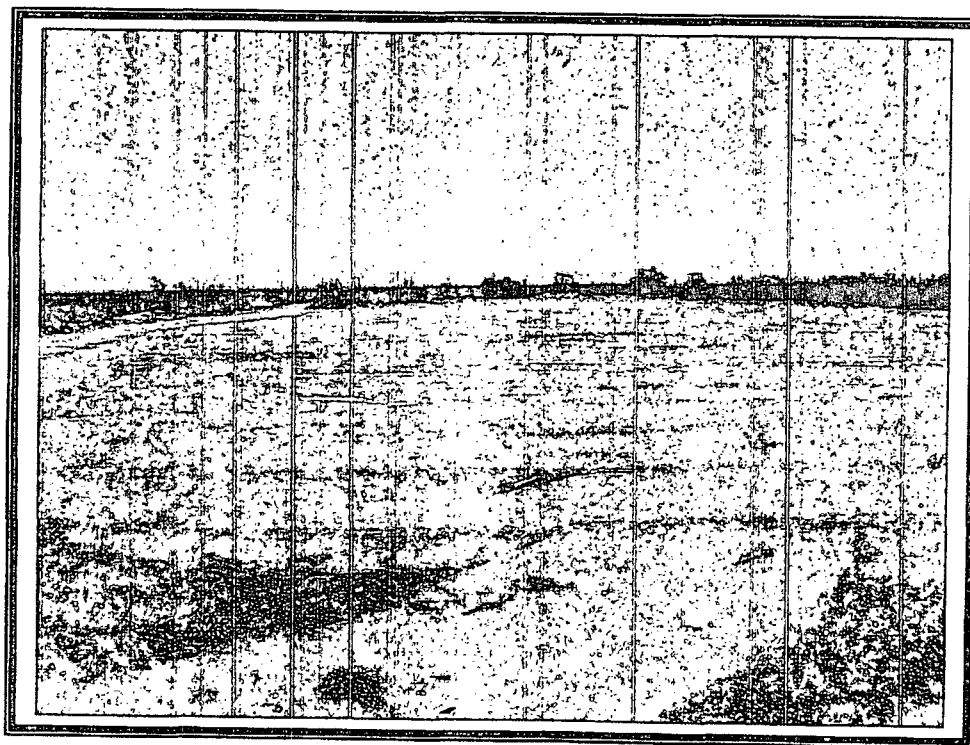
Graham Resources Laughlin Battery #82



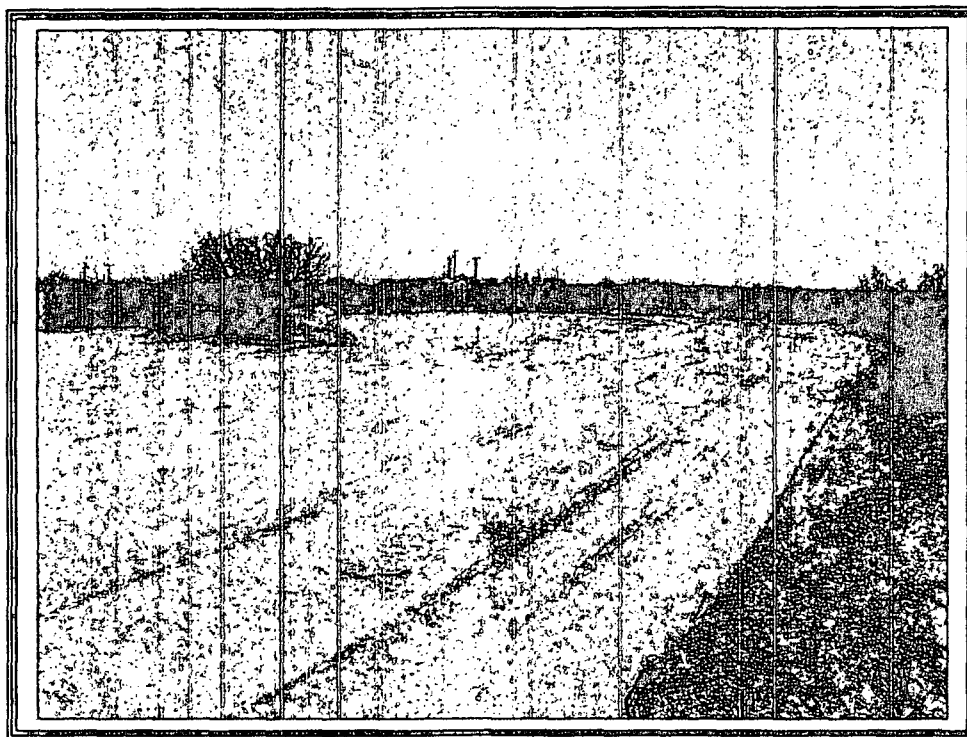
Graham Resources Laughlin Battery #82 burn pit



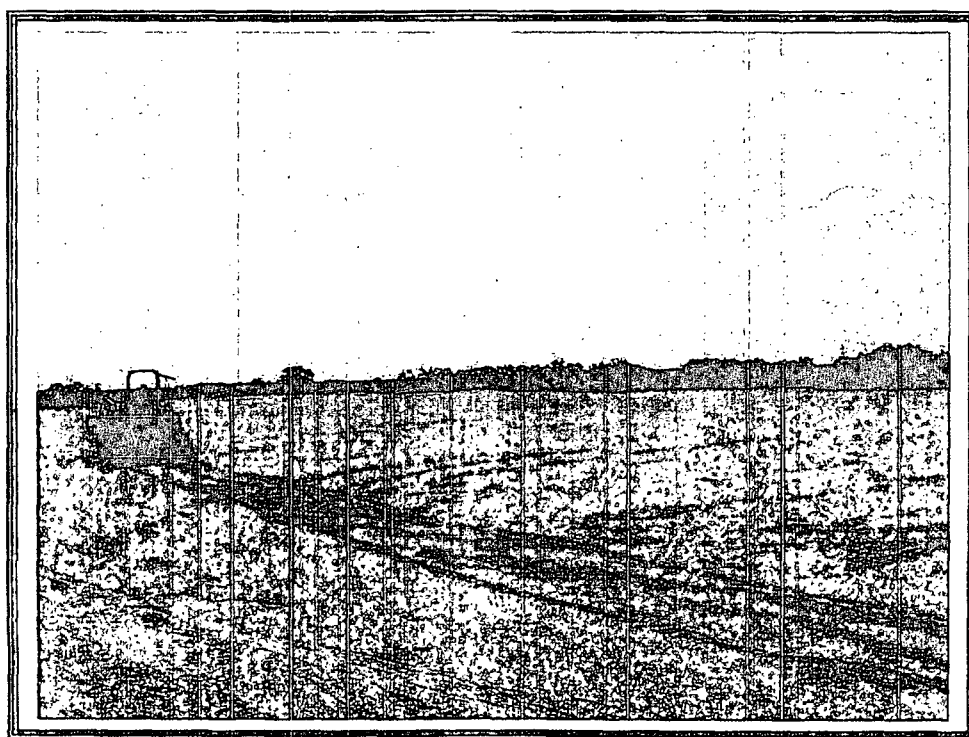
Graham Resources Laughlin Battery #82 after excavation complete



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 reseeding

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

5/16/2006

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

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° 38.537'

W 103° 18.834'

TEXACO SKELLY 'F' STATE BATTERY

Unit Letter G, Sec 20, T-19S, R-37E

N 32° 39.075'

W 103° 16.727'

GRAHAM LAUGHLIN BATTERY 82

Unit Letter P, Sec 5, T-20S, R-37E

N 32° 35.780'

W 103° 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.

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					

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.*

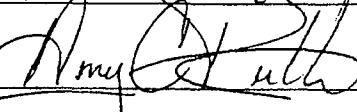

Describe Cause of Problem and Remedial Action Taken.*

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: 	OIL CONSERVATION DIVISION	
Printed Name: Amy C. Ruth	Approved by District Supervisor: 	
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 P31 - PIX ARE GOOD!
- LIST ALL SAMPLES IN TABLE FORMAT w/ DEPTH LISTED - E-MAIL ATTACHMENTS GOOD IDEA
- INCLUDE PROBLEM STATEMENT