



# **HESS CORPORATION**

## **CHEVRON GRAHAM "D" BATTERY #18 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)

**October 12, 2006**

PREPARED FOR:

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

# Hess Corporation

## Chevron Graham "D" Battery #18

### 1.0 INTRODUCTION

The subject site is north of Monument, New Mexico in Lea County in Unit Letter P, of Section 19, Township 19 South, and Range 37 East. The site is an abandoned tank battery. 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 9,000 square feet. There is no water source within 1,000 horizontal feet of the site. There is no surface water within 1,000 horizontal feet of the site. Based on data from the Office of the State Engineer, 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.

On June 21, 2006, BBC personnel collected seven closing (7) samples from the excavation at depths of four (4) and twelve (12) feet below ground surface (bgs). The samples were tested for total petroleum hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO), chloride, and benzene-toluene-ethylbenzene-xylene (BTEX). All site diagrams including sample points 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 June 20, 2006 of final sampling to occur on June 21, 2006. GRO was non-detect, DRO ranged from non-detect to 43.7 parts per million (ppm), chlorides ranged from 32 ppm to 160 ppm, and BTEX was non-detect in all samples.

Site excavation was completed on June 15, 2006 and 5,180 yards of contaminated material was hauled to a landfarm. Backfilling and contouring was completed with a total of 7,080 yards of clean soil on July 19, 2006. The site was reseeded on September 26, 2006.

#### **4.0 CONCLUSION**

According to the Office of the State Engineer, depth to groundwater is less than 50 feet. There is one water source and no surface water bodies within 1,000 horizontal feet. Therefore, the laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are within NMOCD guidelines.

# APPENDIX I

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## Site Diagrams

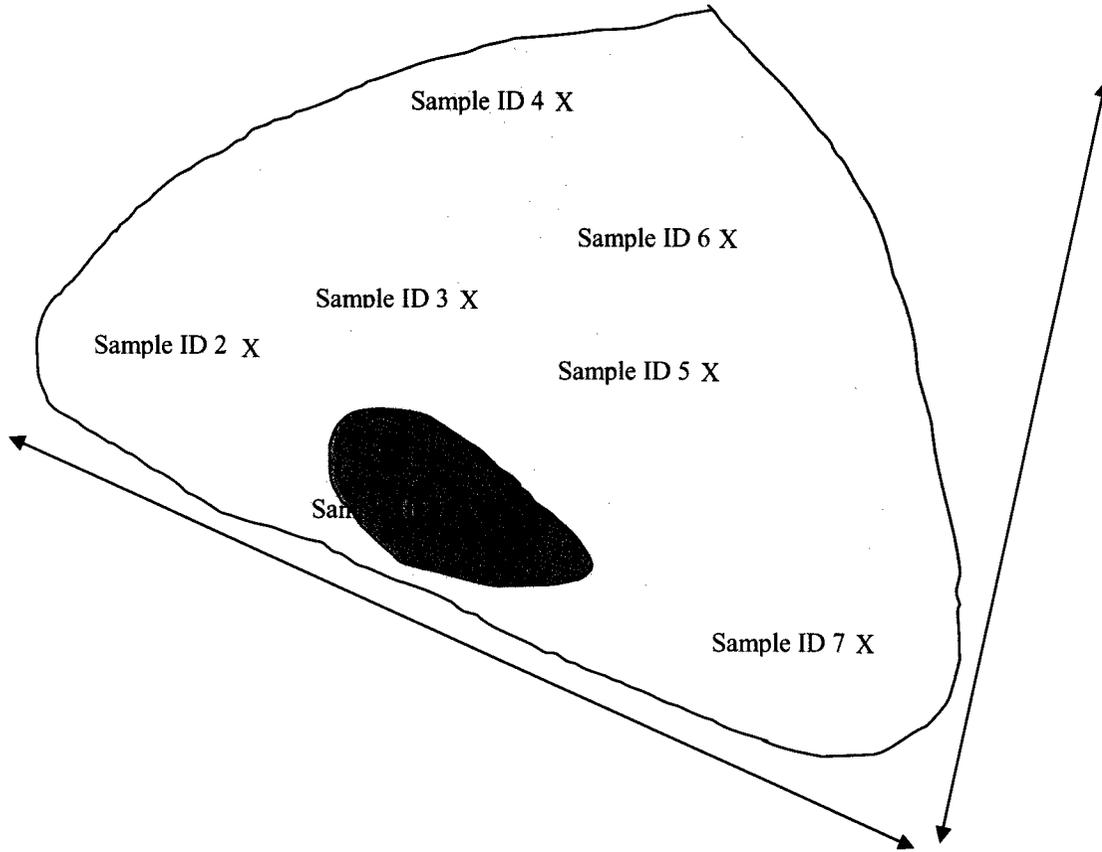
### **Chevron Graham "D" Battery #18 Monument, New Mexico**

Prepared for:  
Hess Corporation  
Seminole, Texas

**October, 2006**

Prepared by:  
BBC International, Inc.

# HESS CORPORATION CHEVRON GRAHAM D BATTERY 18



### LEGEND

- X Sample Points
- 4' Below Ground Surface
- 12' Below Ground Surface

**BBC INTERNATIONAL, INC.**

**HESS CORPORATION  
CHEVRON GRAHAM D**

Date: 8-25-06

Drawn By: JG

Disk:

Sheet 1 of 1 Sheets

Scale: Not to Scale

File Name

# **APPENDIX II**

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## **Laboratory Analytical Results**

**Chevron Graham "D" Battery #18**  
Monument, New Mexico

Prepared for:  
Hess Corporation  
Seminole, Texas

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

Receiving Date: 06/21/06  
Reporting Date: 06/27/06  
Project Owner: HESS CORPORATION  
Project Name: CHEVRON GRAHAM D BATTERY 18  
Project Location: MONUMENT, NM

Sampling Date: 06/21/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
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		06/25/06	06/25/06	06/22/06
H11259-1	1 12'	<10.0	34.2	96
H11259-2	2 4'	<10.0	31.5	16
H11259-3	3 4'	<10.0	43.7	160
H11259-4	4 4'	<10.0	<10.0	48
H11259-5	5 4'	<10.0	33.1	32
H11259-6	6 4'	<10.0	19.0	48
H11259-7	7 4'	<10.0	14.3	48
Quality Control		744	767	970
True Value QC		800	800	1000
% Recovery		93.0	95.9	97.0
Relative Percent Difference		5.2	2.8	2.0

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

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

  
Chemist

6/27/06  
Date

H11259A

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.



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

Receiving Date: 06/21/06  
Reporting Date: 06/27/06  
Project Owner: HESS CORPORATION  
Project Name: CHEVRON GRAHAM D BATTERY 18  
Project Location: MONUMENT, NM

Sampling Date: 06/21/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
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ANALYSIS DATE	06/24/06	06/24/06	06/24/06	06/24/06
H11259-1 1 12'	<0.005	<0.005	<0.005	<0.015
H11259-2 2 4'	<0.005	<0.005	<0.005	<0.015
H11259-3 3 4'	<0.005	<0.005	<0.005	<0.015
H11259-4 4 4'	<0.005	<0.005	<0.005	<0.015
H11259-5 5 4'	<0.005	<0.005	<0.005	<0.015
H11259-6 6 4'	<0.005	<0.005	<0.005	<0.015
H11259-7 7 4'	<0.005	<0.005	<0.005	<0.015
Quality Control	0.101	0.100	0.105	0.310
True Value QC	0.100	0.100	0.100	0.300
% Recovery	101	100	105	103
Relative Percent Difference	0.4	0.8	2.3	2.9

METHOD: EPA SW-846 8260

Bryson A. Cooke  
Chemist

6/27/06  
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 analyses. Cardinal shall 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.

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

**Company Name:** BBC International, Inc. **Project Name:** Cheuron Graham D Battery 18

**Project Manager:** Cliff Brunson **Project Location:** Monument

**Address:** 1324 W. Marland **City:** Hobbs **State:** NM **Zip:** 88240

**Phone #:** 505-397-6388 **Fax #:** 505-397-0397 **Project Owner:** Hess Corp.

**City:** Seminole **State:** TX **Zip:**

**Phone #:** **Fax #:**

**Company:** Hess Corp. **P.O. #:** 45-157156

**Matrix:** # CONTAINERS (C) FAB OR (O) OMP. 1 1 1 1 1 1 1

Lab I.D.	Sample I.D.	DEPTH	DATE	TIME	OTHER:	ACID/BASE:	ICE/COOL:	OTHER:	PRESERV.	SAMPLING
H1259-1	1	12'	6/21/06	922						Chloride
2	2	4'	6/21/06	928						TPH (GRD-BRE) 8015 M
3	3	4'	6/21/06	932						BTEX
4	4	4'	6/21/06	940						
5	5	4'	6/21/06	943						
6	6	4'	6/21/06	948						
7	7	4'	6/21/06	954						

**PLEASE NOTE:** Liability and Damages: Cardinal's liability and service is limited to the amount paid for the test. It shall be limited to the amount paid for the test for the 90 days from the date of the test. 24H per section from the original date of analysis and all costs of collection, including laboratory fees.

**Matrix:** GROUNDWATER, WASTEWATER, SOIL, GRUDE OIL, SLUDGE, OTHER: ACID/BASE, ICE/COOL, OTHER: PRESERV. SAMPLING

**Received By:** *[Signature]* **Date:** 6/21/06 **Time:** 3:57 PM

**Received By: (Lab Staff)** *[Signature]* **Date:** 6/21/06 **Time:** 3:57 PM

**Checked By:** *[Signature]* **Initials:** AB

**Sample Intact:**  Yes  No

**Sample Relinquished:**  Yes  No **Phone Result:**  Yes  No **Add'l Phone #:** **Fax Result:**  Yes  No **Add'l Fax #:**

**REMARKS:** Closing samples

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

# **APPENDIX III**

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## **Site Photographs**

### **Chevron Graham "D" Battery #18 Monument, New Mexico**

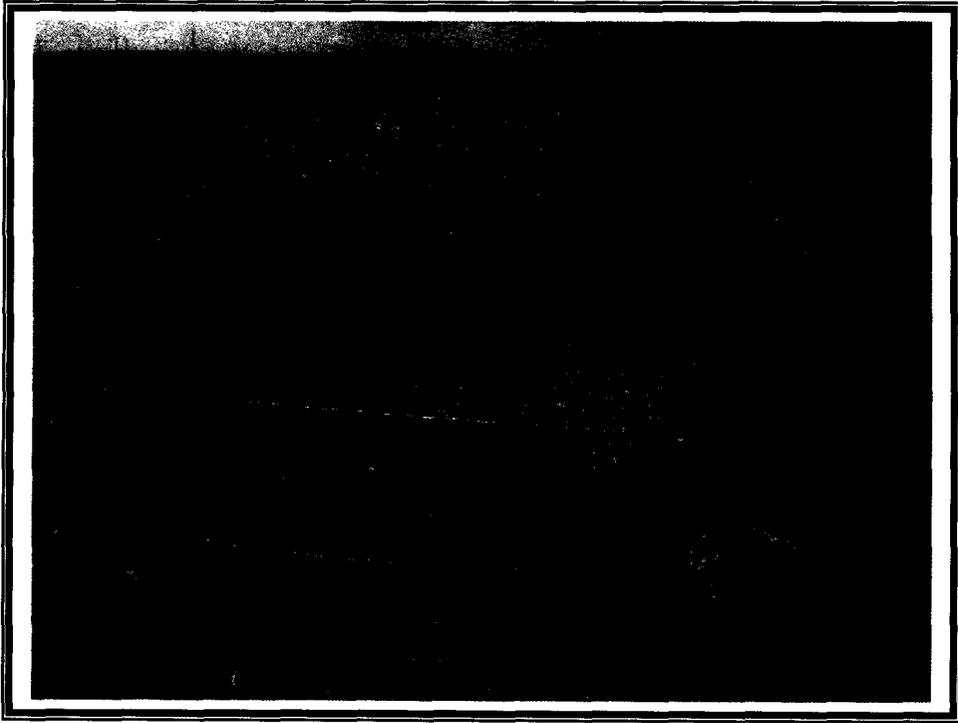
Prepared for:  
Hess Corporation  
Seminole, Texas

**October, 2006**

Prepared by:  
BBC International, Inc.



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18



Chevron Graham "D" Battery #18 after backfill



Chevron Graham "D" Battery #18 after backfill



Chevron Graham "D" Battery #18 after backfill



Chevron Graham "D" Battery #18 reseedling

# **APPENDIX IV**

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## **Correspondences**

### **Chevron Graham "D" Battery #18 Monument, New Mexico**

Prepared for:  
Hess Corporation  
Seminole, Texas

**October, 2006**

Prepared by:  
BBC International, Inc.

**Amy C. Ruth**

**From:** Amy C. Ruth [Amy@bbcinternational.com]  
**Sent:** Tuesday, June 20, 2006 8:09 AM  
**To:** 'psheeley@state.nm.us'  
**Cc:** 'Barnes, Randy'; 'drewhall@hess.com'; 'Small, Sam'; Jennifer (jgilkey@bbcinternational.com)  
**Subject:** Sampling Events - Hess Corp Abandoned Tank Batteries in Monument

Paul,

On behalf of Hess Corp., BBC will collect closing samples at two sites on Wednesday June 21, 2006. Texaco State G Lact Unit Battery 22 former tank battery excavation will be sampled at 8:30 am. Chevron Graham D Battery 18 will be sampled immediately following. Both of these locations can be found directly east of Cooper's water station across Maddox Road. Please contact me if you have any questions.

**Texaco State G Lact Unit Battery 22**  
Unit Letter N, Section 19, T19S, R37E

**Chevron Graham D Battery 18**  
Unit Letter P, Section 19, T19S, R37E

Thank you,

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

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
Address P.O. Box 840, Seminole, TX 79360	Telephone No. (432) 758-6778
Facility Name Chevron Graham "D" Battery #18	Facility Type Abandoned Tank Battery

Surface Owner Jim Cooper/State	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
P	19	19S	37E					

30'

Latitude 32° 38.406' Longitude 103° 17.172'

**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	

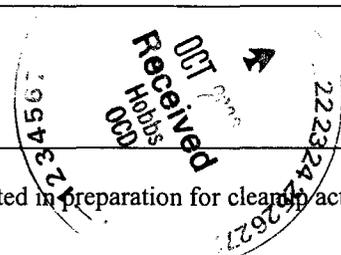
If a Watercourse was Impacted, Describe Fully.\*

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. 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: 11-8-06	Expiration Date:
E-mail Address: amy@bbcinternational.com	Conditions of Approval:	
Date: 10/12/06 Phone: (505) 397-6388	Attached <input type="checkbox"/>	



\* Attach Additional Sheets If Necessary  
Facility - PPACO 631327038  
Incident - NPACO 431327163  
Application - PPACO 631327259

RPT# 1112