

**PIT  
REMEDICATION  
&  
CLOSURE  
REPORT**



Date Remediation Started: 01/24/94 Date Completed: 11/16/95

Remediation Method: Excavation  Approx. cubic yards 8000  
(Check all appropriate sections) Landfarmed  Insitu Bioremediation   
Other \_\_\_\_\_

Remediation Location: Onsite  Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: HEAVILY CONTAMINATED MATERIAL WAS EXCAVATED FROM THE PIT AND WAS BIOREMEDIATED AT THE SITE. THE REMAINDER OF THE CONTAMINATED SOIL WAS EXCAVATED UNTIL SAMPLE ANALYSIS INDICATED THAT THE PIT WAS CLEANED UP TO OCD GUIDELINES. THE EXCAVATED MATERIAL WAS BLENDED WITH CLEAN MATERIAL AND WAS THEN USED TO BACKFILL THE PIT.

Ground Water Encountered: No  Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location PIT WALLS AND BOTTOM  
Closure Sampling: SEE ATTACHED CLOSURE REPORT  
(if multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth \_\_\_\_\_  
Sample date \_\_\_\_\_ Sample time \_\_\_\_\_

Sample Results

Benzene (ppm) \_\_\_\_\_  
Total BTEX (ppm) \_\_\_\_\_  
Field headspace (ppm) \_\_\_\_\_  
TPH \_\_\_\_\_

Ground Water Sample: Yes \_\_\_\_\_ No  (If yes, attach sample results)

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

DATE 11/21/95

SIGNATURE



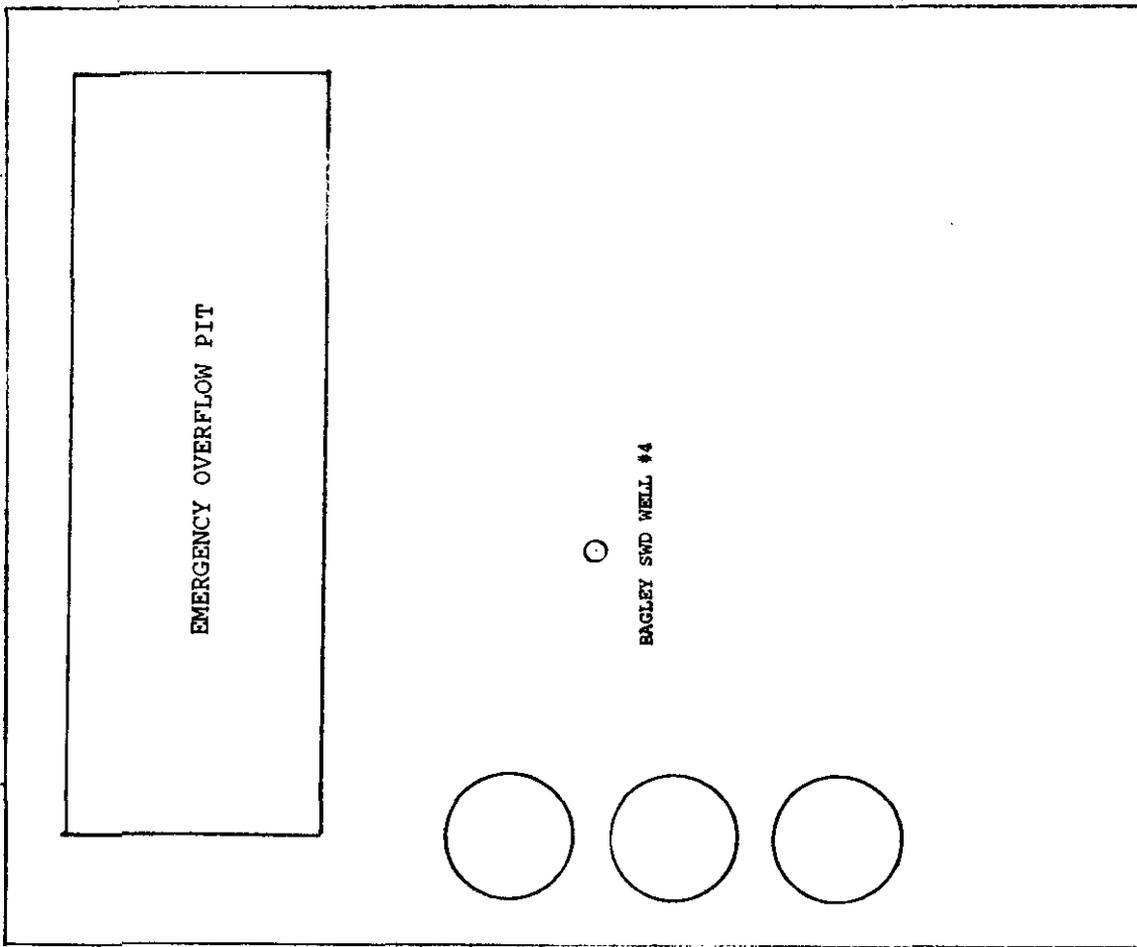
PRINTED NAME AND TITLE

SAMUEL SMALL, PE  
ENVIRONMENTAL COORDINATOR



AMERADA HESS CORPORATION  
BAGLEY SWD FACILITY  
UNIT N, SEC 35, T-11S, R-35E  
LEA COUNTY, NM

NOT TO SCALE



Presented to:

**AMERADA HESS**

**Final Closure Report**

for:

**State "BTC"  
Bagley SWD Storage**

Prepared by:

**Environmental Spill Control, Inc.  
1203 W. Dunnam  
P.O. Box 5890  
Hobbs, New Mexico 88241  
(505) 392-6167**



NM GENERAL CONTRACTORS LIC. #55535  
TX DRILLING LIC. #5005M  
NM DRILLING LIC. #WD 1349

P.O. BOX 5890 ★ HOBBS, NM 88241  
PHONE (505) 392-6167 ★ FAX (505) 397-5085

November 15, 1995

Amerada Hess Corporation  
P.O. Box 840  
Seminole, Texas 79360

Attn.: Mr. Sam Small  
Environmental Supervisor

Re: Final Closure Report for the Bagley Emergency Overflow Pit

Dear Mr. Small:

Environmental Spill Control, Inc. would like to take this opportunity to thank you and your organization for the ability to be of service. The following summarizes the Bagley pit closure, including soil reports and photo documentation.

The original pit size was approximately 170 feet by 57 feet, an estimated 9690 square feet. The fence and netting around the pit were removed on January 24, 1994. There was approximately 300 to 400 cubic yards of heavy hydrocarbon contaminated soil excavated in the first 2 feet to 4 feet of the pit. This heavily hydrocarbon contaminated soil was stabilized and set aside for bio-remediation. On January 24, 1994, excavation was started. The pit over the next several weeks was excavated to a depth of 30 feet on the west end. It should be mentioned that the closure guidelines recommended by the OCD in a ranking score for the pit was 1,000 ppm of Total Petroleum Hydrocarbon (TPH).

On February 8, 1994, excavation to the bottom of the pit was accomplished. Mr. Wayne Price, an engineer with the OCD, inspected the site to verify the clean up criteria had been met on the pit. TPH tests were conducted on-site and witnessed by Mr. Price. These soil samples were taken from the pit bottom. Approval from Mr. Price was given to begin backfilling the excavated pit. We began the backfilling of the pit on February 10, 1994. It was estimated that there had been in excess of 8,000 cubic yards of soils and impacted soils excavated out of the pit. Soil dilution of the excavated impacted material began. Placement in the excavated pit began at 30 feet with the soils being mixed a number of times with fresh soils to lower the overall TPH

below closure limits and virtually eliminate any BTEX. Five foot lifts were employed and compaction of the lifts was accomplished at each five foot interval until the excavation was brought back to grade. Each 5 foot layer being compacted was analyzed for TPH to ensure that closure guidelines were maintained.

The 300 to 400 cubic yards of heavy hydrocarbon contaminated soil was placed in a heap compost pile to bio-degrade. Once the TPH levels were under closure limits, the compost pile was spread over the site and the fence taken down. The site was then planted with winter wheat and as of this date, there is 2 to 3 inches of growth over 90% of the site. TPH and BTEX tests were run by a third party lab to confirm final clean up had been met.

If you have any questions or desire further information, please contact us.

Sincerely,  
ENVIRONMENTAL SPILL CONTROL, INC.

A handwritten signature in cursive script, appearing to read "Allen Hodge".

Allen Hodge, REM  
Field Superintendent

**ENVIRONMENTAL SPILL CONTROL, INC.**

6210 Lovington Highway  
P.O. Box 5890  
Hobbs, NM 88240  
(505) 392-6167 (800) 390-6167

**SOIL ANALYSIS REPORT**

DATE: 02/08/94  
CLIENT: Amerada Hess  
SUPERVISOR: A. HODGE

FACILITY: Bagley SWD System Emer. Overflow  
Test Method: EPA 418.1

	TPH		DEPTH	LOCATION
SAMPLE NO. 1:	870	PPM	14'	North Wall East End
SAMPLE NO. 2:	140	PPM	16'	North Wall Middle East End
SAMPLE NO. 3:	62	PPM	20'	North Wall Middle West End
SAMPLE NO. 4:	43	PPM	24'	North Wall West End
SAMPLE NO. 5:	87	PPM	6' - 26'	North Wall Composite
SAMPLE NO. 6:	172	PPM	12'	South Wall East End
SAMPLE NO. 7:	38	PPM	16'	South Wall Middle East End
SAMPLE NO. 8:	54	PPM	22'	South Wall Middle West End
SAMPLE NO. 9:	114	PPM	28'	South Wall West End
SAMPLE NO. 10:	38	PPM	8' - 28'	South Wall Composite

COMMENTS: Samples 1 - 4 were grab samples taken off the north wall. Sample 5 is a composite sample off the north wall. Samples 6 - 9 were grab samples taken off the south wall. Sample 10 is a composite off the south wall.

**ENVIRONMENTAL SPILL CONTROL, INC.**

6210 Lovington Highway  
P.O. Box 5890  
Hobbs, NM 88240  
(505) 392-6167 (800) 390-6167

**SOIL ANALYSIS REPORT**

DATE: 02/08/94  
CLIENT: Amerada Hess  
SUPERVISOR: A. HODGE

FACILITY: Bagley SWD System Emer. Overflow  
Test Method: EPA 418.1

	TPH		DEPTH	LOCATION
SAMPLE NO. 11:	187	PPM	14'	Bottom North East Corner
SAMPLE NO. 12:	68	PPM	14'	Bottom South East Corner
SAMPLE NO. 13:	30	PPM	18'	Bottom North Middle
SAMPLE NO. 14:	112	PPM	18'	Bottom South Middle
SAMPLE NO. 15:	27	PPM	27'	Bottom North West Corner
SAMPLE NO. 16:	45	PPM	30'	Bottom South West Corner
SAMPLE NO. 17:	88	PPM	14' - 30'	Bottom Composite

COMMENTS: Samples 11 - 16 were grab samples taken out of the bottom of the hole. Sample 17 is a 6 point composite sample from the bottom of the hole.

**ENVIRONMENTAL SPILL CONTROL, INC.**

1203 West Dunnam

P.O. Box 5890

Hobbs, NM 88240

(505) 392-6167 (800) 390-6167

**SOIL ANALYSIS REPORT**

DATE: 02/10/94 - 2/20/94  
CLIENT: Amerada Hess  
SUPERVISOR: A. HODGE

Bagley SWD System Emer. Overflow  
Test Method: EPA 418.1

	TPH		DEPTH	LOCATION
SAMPLE NO. 01	280	PPM	30-25'	Bottom West End
SAMPLE NO. 02	340	PPM	25-20'	Bottom West End
SAMPLE NO. 03	418	PPM	25-20'	Bottom East End
SAMPLE NO. 04	180	PPM	20-15'	Bottom West End
SAMPLE NO. 05	265	PPM	20-15'	Bottom East End
SAMPLE NO. 06	357	PPM	15-10'	Bottom East End
SAMPLE NO. 07	420	PPM	15-10'	Bottom West End
SAMPLE NO. 08	164	PPM	10-5'	Bottom East End
SAMPLE NO. 09	290	PPM	10-5'	Bottom West End
SAMPLE NO. 10	234	PPM	5'-Surface	Bottom East End
SAMPLE NO. 11	190	PPM	5'-Surface	Bottom West End

COMMENTS: These samples were composite samples taken of the backfill material.



# CARDINAL LABORATORIES

PHONE (915) 873-7001 • 211 E. CECIL WOOD • ABILENE, TX 79803

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

## TPH/BTEX ANALYSIS REPORT

Company: Environmental Spill Control Inc.  
Address: P.O. 5890  
City, State: Hobbs, New Mexico 88240

Date: 11/16/95  
Lab #: H2279

Project Name: Hess-Bagley  
Location: Tatum, NM  
Sampled by: A.H.  
Analyzed by: MI  
Sample Type: Soil

Date: 11/03/95 Time: 10:00am  
Date: 11/16/95 Time: 08:40am  
Sample Condition: Intact

Units: ppm

Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE
1	Bagley Bio-site	238.9	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

QC Recovery	449	0.790	0.755	0.919	0.849	0.782	0.783
QC Spike	450	0.872	0.858	0.856	0.844	0.854	0.844
Accuracy	99.8 %	90.4%	87.9%	107.2%	100.6%	91.5%	92.7%
Air Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Methods - GAS CHROMATOGRAPHY; INFRARED SPECTROSCOPY  
- EPA SW-846; 8020, 418.1, 3510, 3540 or 3550

  
\_\_\_\_\_  
Mitch Irvin

11/16/95  
Date

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**  
310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name State "BTC" Bagley SWD Storage
8. Well No.
9. Pool name or Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> Emergency Overflow Pit OTHER
2. Name of Operator Amerado Hess Corporation
3. Address of Operator Drawer D, Monument, New Mexico 88265
4. Well Location

Unit Letter \_\_\_\_\_ Feet From The \_\_\_\_\_ Line and \_\_\_\_\_ Feet From The \_\_\_\_\_

Section 35 Township 115 Range 33E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

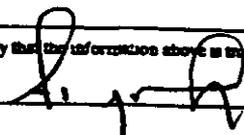
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

It is our intent to remediate the emergency overflow pit which is associated with the State "BTC" Lease, Bagley SWD Storage. The approximate dimensions of the pit are 57 feet by 170 feet. The pit is characterized as containing oilfield wastes associated in oil and gas production practices which are exempt from the RCRA Subtitle Regulation. We further intend to remediate the top five feet of the pit utilizing microorganisms in a windrow configuration covered in plastic. The remaining contamination in the envelope layer will be diluted under the guideline limits established for surface impoundments closures by the OCD.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  1-11-94 TITLE Sr. Production Foreman DATE 1/11/94

TYPE OR PRINT NAME Al Young TELEPHONE NO. (505) 393-2144

(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE JAN 11 1994

CONDITIONS OF APPROVAL IF ANY: