District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

### State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

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## OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

# PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington,	New Mexico 87401
Pacility Or: HEATH GC K1 Well Name	
Location: Unit or Qtr/Qtr Sec Se	
pit Type: Separator X Dehydrator Of	ther
Land Type: BLM, State, Fee	
Pit Decation: S Pit dimensions: length (Abtach diagram)  DEPUTY OIL & GAS Reference: wellhead X  DEC 11 9 1596 tage from reference:  Direction from reference	
Depth To Ground Water:  (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points) <u>O</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

Date Remediation St	arted:	Date Completed: 8/1/94
Remediation Method:	Excavation 🔀	Approx. cubic yards 4(5
(Check all appropriate sections)	Landfarmed 🔀	Insitu Bioremediation
	Other	
	·	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite <u>×</u> Off	site
General Description	Of Remedial Action	:
Excavatio	on	
Ground Water Encoun	tered: No 🔀	Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location	see Attached Documents
attach sample results and diagram of sample	Sample depth	191
locations and depths)	Sample date 8/1	Sample time 1030
	Sample Results	
	Benzene(ppm)	0.395
	Total BTEX(pp	m) <u>28.17</u>
	Field headspa	ce(ppm) 748
	799 080 PP	<u>~</u>
Ground Water Sample	: Yes No _×	(If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 8/2/94	A	BIINCI.
SIGNATURE SSS	nau PRINTED AND TITL	NAME Buddy D. Shaw E Environmental Coordinator

## BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

#### FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

5 @ 19'

Date Analyzed:

8 - 01 - 94

Project Location:

Heath GC K1

Date Reported:

8-01-94

Laboratory Number:

TPH-1048

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,100	200

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
978	938	4.18

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0035

Analvst

Review



#### AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Company: Blagg Engineering

Address:

P.O. Box 87

City, State: Bloomfield, NM 87413

Date:

8/2/94

Lab ID:

1678

Sample ID:

2214

Job No.

2-1000

Project Name:

Heath GC K1

**Project Location:** Sampled by:

5 @ 19' - Separator Pit

NV

Date: Date:

8/1/94 8/2/94 Time:

10:30

Analyzed by: Sample Matrix: DLA

Soil

## Aromatic Volatile Organics

	**Measured Concentration ug/kg	
Component		
Benzene	395	
Toluene	4,510	
Ethylbenzene	1,633	
m,p-Xylene	17,944	
o-Xylene	3,692	
	TOTAL 28,174 ug/kg	

ND - Not Detectable

\*\* - Method Detection Limit, 2 ug/kg

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

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## OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

# PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) · 326-9200
Address: 200 Amoco Court, Farmington	
Facility Or: HEATH GC	
Well Name	
Location: Unit or Qtr/Qtr Sec _ Se	
Pit Type: Separator Dehydrator O	ther Blow
Land Type: BLM, State, Fee	•
Pit Location: Pit dimensions: length	
l	, other
Footage from reference:	, , , , , , , , , , , , , , , , , , ,
nimalian from reference.	e: 30 Degrees × East North
Direction from reference	of  West South X
	west south X
Depth To Ground Water:	Less than 50 feet (20 points)
(Vertical distance from contaminants to seasonal	50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
contaminants to seasonal high water elevation of ground water)	
ground water,	
Wellhead Protection Area:	Yes (20 points) No (0 points)
(Less than 200 feet from a private domestic water source, or; less than	no (o botuca)
1000 feet from all other water sources)	
Distance To Surface Water:	Less than 200 feet (20 points)
(Horizontal distance to perennial	200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	
	RANKING SCORE (TOTAL POINTS):
· · · · · · · · · · · · · · · · · · ·	

Date Remediation St	arted:	Date Completed:	8/5/94
Remediation Method:		Approx. cubic yards	
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation	
	Other		
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		fsite	-
General Description	Of Remedial Action	n:	
Excavation	on		
Ground Water Encoun	tered: No 🔀	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location _	see Attached Documents	
attach sample results and diagram of sample	Sample depth	// '	
locations and depths)	Sample date 8/5		1450
	Sample Results		
	Benzene(ppm)		
	Total BTEX(p	pm)	
	Field headsp	ace(ppm) <u>673</u>	
	TPH 3,160	pm	
Ground Water Sample	: Yes No _	∑ (If yes, attach sample	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLE	TE TO THE BEST
DATE 8     94	Λ	RIINC	1.
SIGNATURE BASI	reinted and tit		Poordinator

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199  LDCATION ND: 60035 C.D.C. ND: 1683
FIELD REPORT: CLOSURE VERIFICATION PAGE No/ of _/
LOCATION: NAME: HEATH GC WELL #: K PIT: 8000 DATE STARTED: 8/5/94  QUAD/UNIT: G SEC: 3 Z TWP: 30 N RNG: 9W PM: NM CNTY: 5J ST: NM  QTR/FOOTAGE: 5W Y NE   4 CONTRACTOR: MOSS DATE STARTED: 8/5/94  ENVIRONMENTAL SPECIALIST: NV
SOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 18 FT. x 15 FT. DEEP.  DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YARDAGE: /3Z  LAND USE: RANGE LEASE: 5F - 076337
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 170 FEET 530E FROM WELLHEAD.  DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
SOIL AND EXCAVATION DESCRIPTION: SIDEWALLS - VARIOUS COLORS KNOWN FROM PARE ORANGE TO MED. LT. GROY (WEST SIDEWALL), NON-COHESING,  ORY TO SLIGHTLY MIST, FIRM TO DENSE.
BOHOM - HARD SHALE - DASKY BLUE GREEN COLOR.  FIELD 418.1 CALCULATIONS
SAMPLE I.D. LAB No: WEIGHT (g) mL. FREON DILUTION READING CALC. ppm
De11' TPH-1056 5 20 10:1 79 3,160
SCALE
O FT PERIMETER N OVM PIT PROFILE
PIT PERIMETER IN RESULTS PIT FROTTEE  SAMPLE FIELD HEADSPACE A , A
18 1 57.4
120 1011 35
4 € 11 673 SWEF
WELL HEAD  X SE IS 1 810
P A I
PIPE RAMPLES RAMP  RAMP  LAB SAMPLES  SHAVE  SHAVE
TRAVEL NOTES: CALLOUT: 8/3/94 ONSITE: 8/5/94

#### BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

### FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

4 @ 11'

Date Analyzed:

8-08-94

\*Diff.

4.18

Project Location:

Heath GC K1

Date Reported:

8-08-94

Laboratory Number:

TPH-1056

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable		
Petroleum Hydrocarbons	3,200	200

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate
TPH mg/kg	TPH mg/kg
078	028

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - B0035

Analyst

Review



8/8/94

#### AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Date:

8/8/94

Company: Blagg Engineering

Lab ID:

1683

Address:

P. O. Box 87

Sample ID:

2389

City, State: Bloomfield, NM 87413

Job No.

2-1000

Project Name:

Heath GC K1

**Project Location:** 

4 @ 11' - Blow Pit

Date: 8/5/94 Time:

14:50

Sampled by: Analyzed by: NV DLA

Date:

Sample Matrix:

Soil

#### Aromatic Volatile Organics

Component	**Measured Concentration ug/kg		
Benzene	ND		
Toluene	5.0		
Ethylbenzene	3.7		
m,p-Xylene	21.2		
o-Xylene	15.2		
	TOTAL 45.1 ug/kg		

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

> Approved by: Date:

<sup>\*\* -</sup> Method Detection Limit, 2 ug/kg