

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

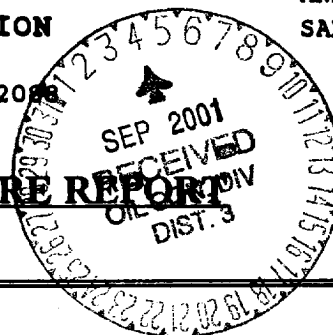
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICEBlow-OK - 12/14/01
sep-OKPIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: W. D. HEATH A #14
Well Name

Location: Unit or Qtr/Qtr Sec L Sec 9 T29N R 9W County SAN JUAN

Pit Type: Separator Dehydrator Other BLOW

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 40', width 40', depth 8'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 160

Direction from reference: 0 Degrees East North X
of
 West South

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) 0

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) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 10-27-94Remediation Method: Excavation X Approx. cubic yards 500
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

nmco letter correspondence 12-4-94Ground Water Encountered: No X Yes _____ Depth _____Final Pit: Sample location see Attached DocumentsClosure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 9'Sample date 10-27-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1TPH NDGround Water Sample: Yes _____ No X (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 11/4/94
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw
Environmental Coordinator



CLOSE PIT



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:	C Bottom @ 9'	Date Analyzed:	10-27-94
Project Location:	W.D. Heath A 14	Date Reported:	10-27-94
Laboratory Number:	TPH-1232	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	ND	5

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	3,400	2,920	15

*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 - B0135

R. E. Ornel
Analyst

Nelson V. J.
Review

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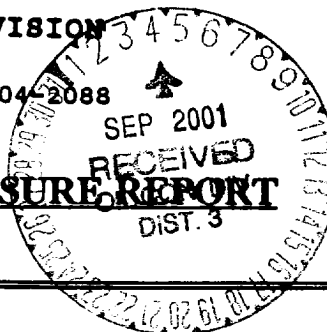
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OIL CONSERVATION DIVISION

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

Facility Or: W. A. HEATH A #14
Well Name _____

Location: Unit or Qtr/Qtr Sec L Sec 9 T 29N R 9W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 15', width 15', depth 14'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 120

Direction from reference: 75 Degrees X East North X
of
West South

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) 0

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) 0

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: _____ Date Completed: 10-27-94

Remediation Method: Excavation X Approx. cubic yards 100
 (Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

rmad letter correspondence

12-4-96

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

Closure Sampling:
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 15'

Sample date 10-27-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 23

TPH 790 ppm

Ground Water Sample: Yes _____ No X (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 11/4/94

SIGNATURE

Buddy D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

RESULT TO BOB NICOL 10-27-94 PEG

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80135</u> C.O.C. NO: _____
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>W.D. HEATH A</u>	WELL #: <u>14</u>	PIT: <u>SEP</u>	DATE STARTED: <u>10-27-94</u>
QUAD/UNIT: <u>L</u>	SEC: <u>9</u>	TWP: <u>29 N</u>	DATE FINISHED: _____
RNG: <u>9 W</u>	BM: <u>NM</u>	CNTY: <u>SJ</u>	ENVIRONMENTAL SPECIALIST: <u>R Eo</u>
ST: <u>NM</u>	QTR/FOOTAGE: <u>NW/SW</u>	CONTRACTOR: <u>PAUL + SONS</u>	

EXCAVATION APPROX. 15 FT. x 15 FT. x 14 FT. DEEP. CUBIC YARDS: 100
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: SF-076337 FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>120</u> FEET <u>N75°E</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>	
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM		

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

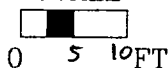
MOIST, BROWN, POORLY GRADED SAND - NO ODOR - MINOR LENSES OF POSSIBLE SNAW.
BOTTOM DARKER MOIST SAND → GRAVELLY SAND. SOME THIN SILTY CLAY LENSES.

FIELD 418.1 CALCULATIONS

FIELD #101 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
NEB@15'	1231	10.0	20.0	-	396	792

CLOSE PIT

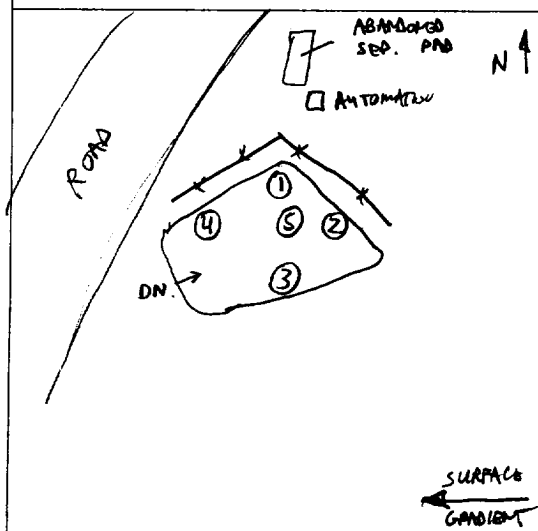
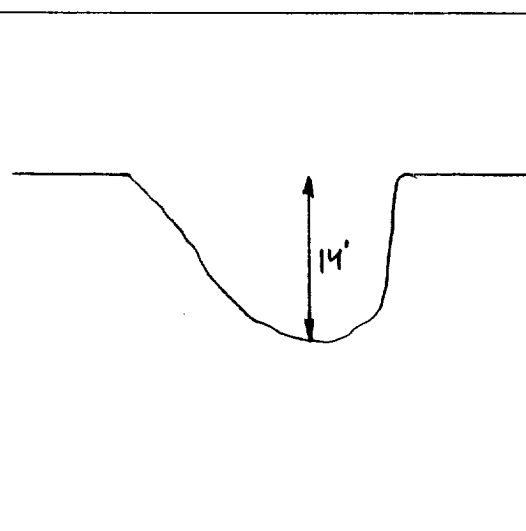
SCALE



PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES: CALLOUT: 10-26-94 ONSITE: 10-27-94 0800

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
Sample ID: NE Bottom @ 15'
Project Location: W.D. Heath A 14
Laboratory Number: TPH-1231

Project #:
Date Analyzed: 10-27-94
Date Reported: 10-27-94
Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	790	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	3,400	2,920	15

*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 - B0135

R. E. O'Neill
Analyst

Nelson Vely
Review

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80135</u> C.D.C. NO: <u>8412</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>HEATH WD A</u> WELL #: <u>14</u> PITS: <u>Blow, SEP</u> QUAD/UNIT: <u>L</u> SEC: <u>9</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>nw/4</u> CONTRACTOR: <u>P & S</u>	DATE STARTED: <u>6/5/01</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------

SOIL REMEDIATION:

REMEDIATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>600</u>
LAND USE: <u>RANGE-BLM SF-076337</u>	LIFT DEPTH (ft): <u>1-1.5</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM P.C. - 10/27/94

PALE TO MOD. YEL. BROWN SAND, NON COHESIVE, DRY TO SLIGHTLY MOIST, LOOSE TO DENSE, NO APPARENT DISCOLORATION/STAINING OBSERVED OR HC ODOOR DETECTED @ ANY OF THE SAMPLE PTS. OR DUM SAMPLE, SAMPLE DEPTHS RANGED FROM 4"-12", COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

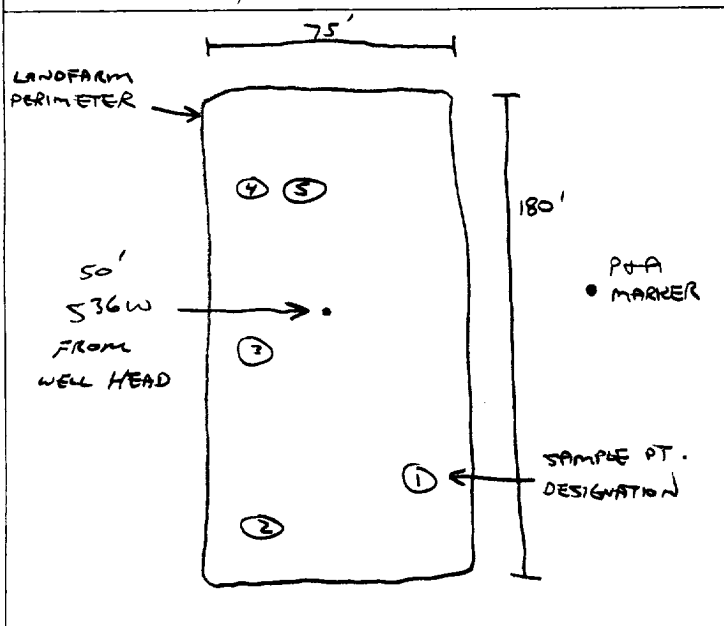
CLOSED

WELL - PLUGGED & ABANDONED
5/12/95

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



OVM CALIB. READ. 52.3 ppm
 TIME: 0805 am/pm 6/5/01

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1230	ND

SCALE

 0 FT

TRAVEL NOTES: CALLOUT: N/A ONSITE: 6/5/01

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

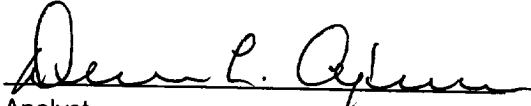
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	06-07-01
Laboratory Number:	19985	Date Sampled:	06-05-01
Chain of Custody No:	8412	Date Received:	06-05-01
Sample Matrix:	Soil	Date Extracted:	06-06-01
Preservative:	Cool	Date Analyzed:	06-07-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

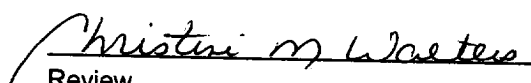
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Heath, WD Lease A #14 Landfarm 5 Pt. Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

08412

Client / Project Name		Project Location		ANALYSIS / PARAMETERS															
BLAGG-18P		HEATH WD LEASE																	
Sampler: NTV		Client No. 94034-010		Sample Date		Sample Time		Lab Number		Sample Matrix		No. of Containers		TPH (80YS)		Remarks			
LF-1	6/5/01	0830		19981	SOIL			1	✓							ALL SAMPLES			
LF-2	6/5/01	0930		19982	SOIL			1	✓							PRESERVED COOL			
LF-3	6/5/01	1030		19983	SOIL			1	✓							HEATH WD A #5			
LF-1	6/5/01	1130		19984	SOIL			1	✓							" " "			
LF-1	6/5/01	1230		19985	SOIL			1	✓							HEATH WD A #7			
																HEATH WD A #14			
																ALL SAMPLES			
																5 PT. COMPOSITE			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
[Signature]		6/5/01		1345		[Signature]		6-5-01		1345									
Relinquished by: (Signature)						Received by: (Signature)													
Relinquished by: (Signature)						Received by: (Signature)													
														Sample Receipt					
														Y		N		N/A	
														Received Intact		✓			
														Cool - Ice/Blue Ice		✓			

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615