

**3R -** 114

# **REPORTS**

**DATE:**

Feb. 19, 1999

District I  
P.O. Box 1980, Hobbs, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

District II  
P.O. Drawer DD, Azusa, NM 88211

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

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

RECEIVED

APPROVED

FEB 19 1999

**PIT REMEDIATION AND CLOSURE REPORT**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: HARE GC C #1  
Well Name: \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec M Sec 25 T 29N R 10W County SAN JUAN

Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other Blow

Land Type: BLM \_\_\_\_\_, State \_\_\_\_\_, Fee \_\_\_\_\_, Other COM. AGMT.

Pit Location: Pit dimensions: length 40', width 35', depth 10'  
(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 220'

Direction from reference: 30 Degrees \_\_\_\_\_ East North X  
of  
X West South \_\_\_\_\_

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 20  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
domestic water source, or; less than  
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)  
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: \_\_\_\_\_ Date Completed: 4/1/94

Remediation Method: Excavation X Approx. cubic yards 518  
(Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
Other COMPOST

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

General Description Of Remedial Action: \_\_\_\_\_  
Excavation  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ground Water Encountered: No \_\_\_\_\_ Yes X Depth 13'

Final Pit: Sample location see Attached Documents  
Closure Sampling: \_\_\_\_\_  
(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 X 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 4/25/94  
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw  
Environmental Coordinator

B - NO  
T - 0.7  
E - NO  
X - 2.6

WATER - OK

RESULTS TO BOB McLOY 4-11-94

TPH = NO

CLOSE

ABRAMS

NEAR: ABRAMS GC 'B' #2  
HARE GC 'C' 1

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT NO: C4363

C.D.C. NO: 3476

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: LEASE: HARE GC 'C' WELL 1 QD: SW/4 SW/4 (M)  
SEC: 2.5 TWP: 29N RNG: 10W BM: NM CNTY: SJ ST: NM PIT: BLOW  
CONTRACTOR: PAUL VELASQUEZ  
EQUIPMENT USED: EXCAVATOR

DATE STARTED: 4-1-94

DATE FINISHED: 4-1-94

ENVIRONMENTAL SPECIALIST: AEO

SOIL REMEDIATION: QUANTITY: ~ 35' x 40' x 10' DEEP

DISPOSAL FACILITY: LANDFARM/COMPOST ON SITE

LAND USE: FARMING

SURFACE CONDITIONS: EXCAVATED PRIOR TO ARRIVAL

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 220' FEET N.30°E FROM WELLHEAD.  
SILT SAND PIT - WATER @ ~ 14' NO SIGN OF CONTAMINATED SOILS REMAIN  
WATER - NO ODOOR, APPEARS CLEAN.

ABRAMS GC 'B' #2 ALSO BLOWS INTO THIS PIT

### FIELD 418.1 CALCULATIONS

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

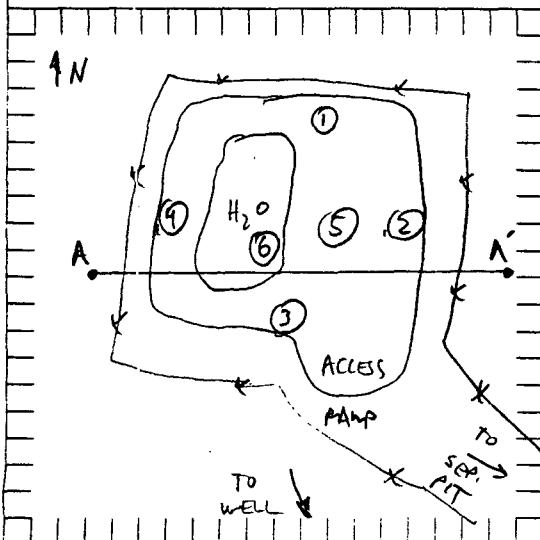
DEPTH TO GROUNDWATER: 14'  
NEAREST WATER SOURCE: > 1000'  
NEAREST SURFACE WATER: > 1000'  
NMOC BANKING SCORE: 720  
NMOC TPH CLOSURE STD: 100 ppm TPH

SCALE



0 10 20 FEET

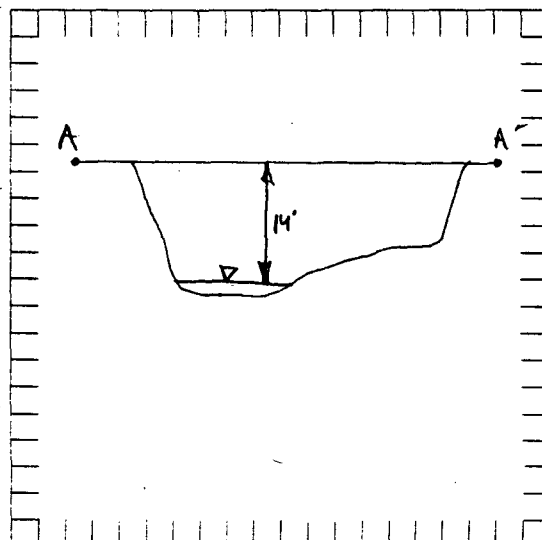
### PIT PERIMETER



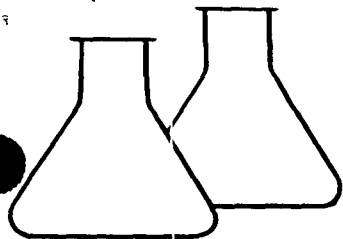
### OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① NS09'	14
② ES06'	3
③ SS010'	3
④ WS09'	2
⑤ EB010'	7
⑥ WB013' WATER	
LAB	
⑤ 418.1 - SOIL	
⑥ BTEX - WATER	

### PIT PROFILE



TRAVEL NOTES: CALLOUT: 3-31-94 ONSITE: 4-1-94 1100



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 EB @ 10'	Date Sampled:	04-01-94
Laboratory Number:	7144	Date Received:	04-01-94
Sample Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	ND	20.0

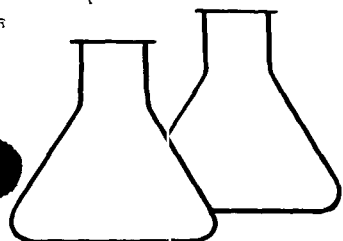
ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Hare GC "C" #1/Abrams GC "B" #2 Blow Pit C4363

Tony Tristano  
Analyst

Mavis D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	6 WB @ 13'	Date Reported:	04-05-94
Laboratory Number:	7145	Date Sampled:	04-01-94
Sample Matrix:	Water	Date Received:	04-04-94
Preservative:	HgCl & Cool	Date Analyzed:	04-04-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.7	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	1.4	0.2
o-Xylene	1.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	88 %
	Bromofluorobenzene	86 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Hare GC "C" #1/Abrams GC "B" #2 Blow pit C4363

Tony Tinstans  
Analyst

Morris D. Young  
Review

## CHAIN OF CUSTODY RECORD

[illegible]**ENVIROTECH INC.**

5796 U.S. Highway 64-3014

**Farmington, New Mexico 87401**

**(505) 632-0615**

CLIENT: <u>AMOCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C4363 LOCATION NO: <u>C4364</u> C.O.C. NO: <u>5624</u>
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**FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION**

LOCATION: NAME: <u>HARE GC C</u> WELL #: <u>1</u> PITS: <u>BLOW, SEP.</u> QUAD/UNIT(M) SEC: <u>25</u> TWP: <u>29N</u> RNG: <u>16W</u> PM: <u>NM</u> CNTY: <u>SS</u> ST: <u>NM</u> QTR/FOOTAGE: <u>S40/4 S40/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>11-25-97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV/EP</u>
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**SOIL REMEDIATION:**

REMEDICATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>2,300</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>NA</u>

**FIELD NOTES & REMARKS:**

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 20 NMOCB TPH CLOSURE STD: 100 PPM

SOIL IS A DK. YELLOW O/LT. BROWN SILTY SAND. DRY.

NO STAIN OR HC ODOR.

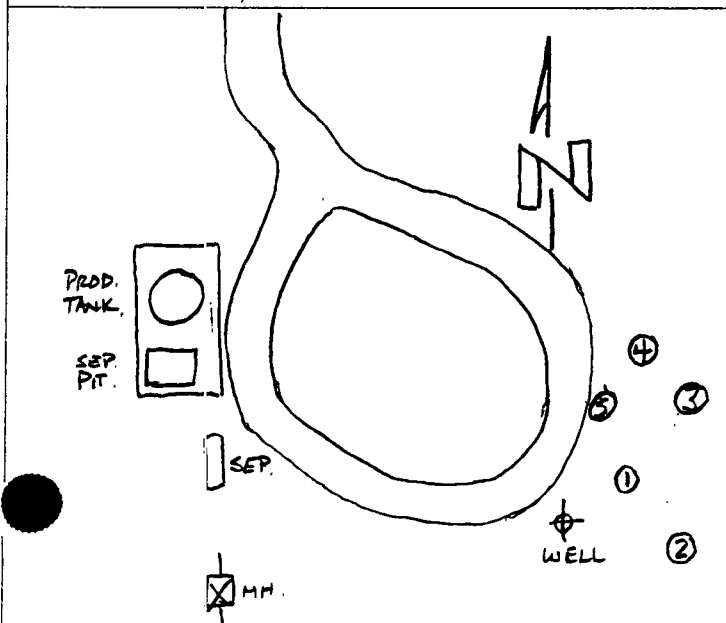
TOOK SPT COMP. FOR LAB. ANALYSIS.

NO ACTUAL LANDFARM OBSERVED ON-SITE, SOIL WAS COMPOSTED & SAMPLED PREVIOUSLY ON 9/12/94, SEE 9/12/94 FIELD REPORT.

**FIELD 418.1 CALCULATIONS**

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

**SKETCH/SAMPLE LOCATIONS**



**OVM RESULTS**

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	0.0

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	8015	0820	ND

**SCALE**

0 1 FT

TRAVEL NOTES: CALLOUT: N/A ONSITE: 11-25-97 0820



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

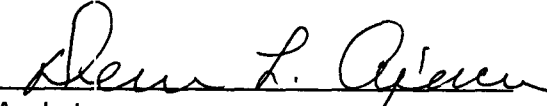
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-03-97
Laboratory Number:	C596	Date Sampled:	11-25-97
Chain of Custody No:	5624	Date Received:	11-26-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	12-01-97
Condition:	Cool and Intact	Analysis 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	0.2

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: Hare GC C #1 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-01-TPH QA/QC	Date Reported:	12-03-97
Laboratory Number:	C588	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-01-97
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	10-28-97	6.1686E-04	6.1196E-04	0.79%	0 - 15%
Diesel Range C10 - C28	10-28-97	6.1629E-04	6.1444E-04	0.30%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

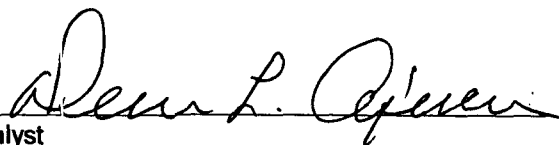
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

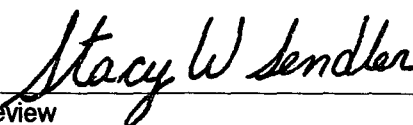
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	248	99%	75 - 125%
Diesel Range C10 - C28	ND	250	249	100%	75 - 125%

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: QA/QC for samples C588 - C596.

  
Analyst

  
Review

**(505) 632-0615**

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80086</u> C.O.C. NO: _____
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# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>HARE GC C</u> WELL #: <u>1</u> PITS: <u>BLOW, SEP.</u>	DATE STARTED: <u>9/12/94</u>
QUAD/UNIT: <u>M</u> SEC: <u>25</u> TWP: <u>29N</u> RNG: <u>10W</u> BM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	DATE FINISHED: <u>9/12/94</u>
QTR/FOOTAGE: <u>SW1/4 SW1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

## SOIL REMEDIATION:

REMEDICATION SYSTEM: COMPOST

APPROX. CUBIC YARDAGE: 2300

LAND USE: RANGE/AGRICULT.

LEASE: SF-081061

## FIELD NOTES & REMARKS:

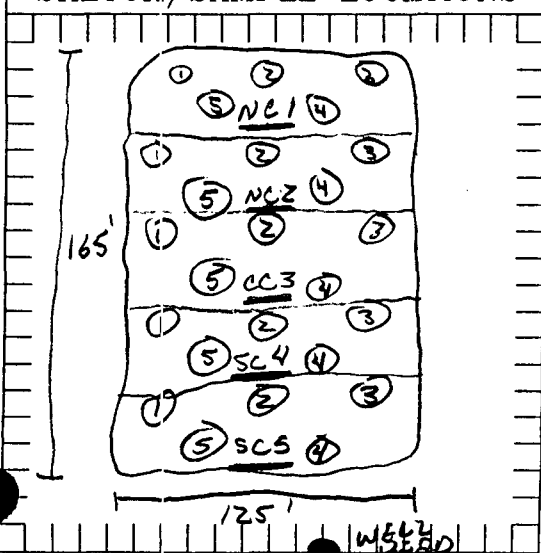
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'  
 NMDCD RANKING SCORE: 20 NMDCD TPH CLOSURE STD: 100 PPM

COMPOSTING ORIGINAL CONDUCTED IN LARGE STOCKPILES.  
 COMPOST LATER SPREAD OUT INTO SERIES OF ROWS ORIENTED  
 IN AN EAST-WEST DIRECTION (SEE SKETCH BELOW). FIVE FT.  
 COMPOSITE SAMPLING CONDUCTED FOR ALL FIELD TPH SAMPLES.

## FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
SEE ATTACHED REPORTS						

## SKETCH/SAMPLE LOCATIONS



## TPH GVM RESULTS

SAMPLE ID	FIELD H <del>AND</del> (PPM)
NL1	144
NL2	504
CC3	192
SC4	212
SC5	160

## LAB SAMPLES

SAMPLE ID	ANALYSIS

SCALE



0 FT

## TRAVEL NOTES:

CALLOUT: 9/12/94

ONSITE: 9/12/94

**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  
Sample ID: NC 1  
Project Location: Hare GC C 1  
Laboratory Number: TPH-1129

Project #:  
Date Analyzed: 9-13-94  
Date Reported: 9-13-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	140	20

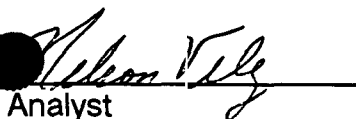
ND = Not Detectable at stated detection limits.

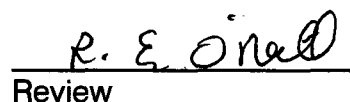
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	49200	46000	6.72

\*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: Compost Stockpile - B0086

  
Analyst

  
Review

**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: NC 2  
Project Location: Hare GC C 1  
Laboratory Number: TPH-1130

Project #:  
Date Analyzed: 9-13-94  
Date Reported: 9-13-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	500	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	49200	46000	6.72

\*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: Compost Stockpile - B0086

  
Analyst

  
Review

**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: CC 3  
Project Location: Hare GC C 1  
Laboratory Number: TPH-1131

Project #:  
Date Analyzed: 9-13-94  
Date Reported: 9-13-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	190	20

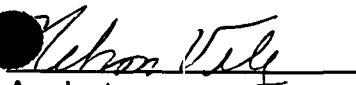
ND = Not Detectable at stated detection limits.

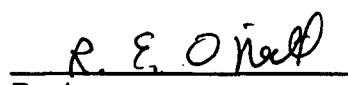
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	49200	46000	6.72

\*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: Compost Stockpile - B0086

  
Analyst

  
Review

**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: SC 4  
Project Location: Hare GC C 1  
Laboratory Number: TPH-1132

Project #:   
Date Analyzed: 9-13-94  
Date Reported: 9-13-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	210	20

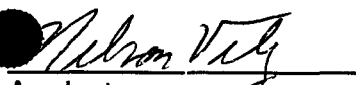
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	49200	46000	6.72

\*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: Compost Stockpile - B0086

  
Analyst

  
Review



**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: SC 5  
Project Location: Hare GC C 1  
Laboratory Number: TPH-1133

Project #:  
Date Analyzed: 9-13-94  
Date Reported: 9-13-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	160	20


ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	49200	46000	6.72

\*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: Compost Stockpile - B0086

  
Analyst

  
Review

C 4363  
C 4364

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/4 SW/4 S-2S, T29N R10W NMPM

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

COM. AGMT, SW 42

8. Well Name and No.

HARE 6C C #1

9. API Well No.

3004507771

10. Field and Pool, or Exploratory Area

DAKOTA

11. County or Parish, State

SAN JUAN, N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Pit closure  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

PLT CLOSURE VERIFICATION  
SEE ATTACHED DOCUMENTS

① Blow PIT - ABANDONED, GROUNDWATER ENCOUNTERED, CLOSED UNDER Amoco's GW PLAN (SEC. 1.2).

14. I hereby certify that the foregoing is true and correct

Signed

B. Shaw

Title

Enviro. Coordinator

Date

4/25/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

## SPECIFIC INSTRUCTIONS

*Item 4*—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

*Item 13*—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE** — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

### ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION** — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

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 OFFICE

**PIT REMEDIATION AND CLOSURE REPORT**

*Denied*  
*No landform result*

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: HARE GC C #1  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec M Sec 25 T 29N R 10W County SAN JUAN  
Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other Blow  
Land Type: BLM \_\_, State \_\_, Fee \_\_, Other Com. AGMT,

Pit Location: Pit dimensions: length 40', width 35', depth 10'  
(Attach diagram) Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 220'  
Direction from reference: 30 Degrees \_\_\_ East North X  
of  
X West South \_\_\_

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 20  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
domestic water source, or; less than  
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)  
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: \_\_\_\_\_ Date Completed: 4/1/94

Remediation Method: Excavation X Approx. cubic yards 518  
(Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
Other COMPOST

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

General Description Of Remedial Action: \_\_\_\_\_

Excavation

Ground Water Encountered: No \_\_\_\_\_ Yes X Depth 13'

Final Pit: Sample location see Attached Documents

Closure Sampling: \_\_\_\_\_  
(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 X 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 4/25/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

S - NO  
T - 0.7  
E - NO  
X - 2.6

RESULTS TO BE SUBMITTED 1-1-94

THF 1/6

CLOSE

NEAR: ABRAMS GC "B" #2  
HARE GC "C" 1

ENVIROTECH Inc.

5796 US HWY 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT NO: 24723

C.O.C. NO: 3476

ABRAMS

# FIELD REPORT: CLOSURE VERIFICATION

JOB NO: 92140  
PAGE NO: 1 of 1

LOCATION: LEASE: HARE GC "C" WELL 1 QD 34/4 34/4 (M)  
SEC. 25 TWP: 29N RNG: 10W BM: NM CNTY. CO ST NM PIT ALOC  
CONTRACTOR: PAUL VELASQUEZ  
EQUIPMENT USED: EXCAVATOR

DATE STARTED: 4-1-99  
DATE FINISHED: 4-1-99

ENVIRONMENTAL SPECIALIST: PEO

SOIL REMEDIATION: QUANTITY: ~ 35' x 40' x 10' DEEP  
DISPOSAL FACILITY: LANDFILL/COMPOST ON SITE  
LAND USE: FARMING  
SURFACE CONDITIONS: EXCAVATED PRIOR TO ARRIVAL

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 220' FEET N. 30° W FROM WELLHEAD.  
SILT SAND PIT - WATER @ ~ 14' NO SIGN OF CONTAMINATED SOILS REMAIN  
WATER - NO ODOOR, APPEARS CLEAR.

ABRAMS GC "B" #2 ALSO FLOWS INTO THIS PIT

## FIELD 418.1 CALCULATIONS

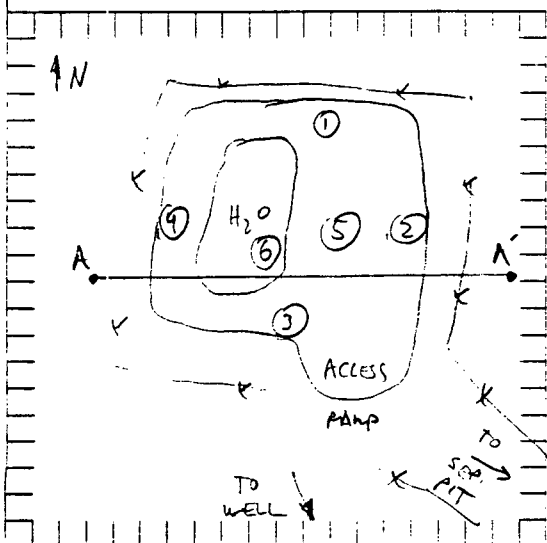
SAMPLE I.D.	LAB NO.	WEIGHT (g)	ML. FREON	DILUTION	READING (CALC. ppm)

DEPTH TO GROUNDWATER: 14'  
NEAREST WATER SOURCE: > 1000'  
NEAREST SURFACE WATER: > 1000'  
WMOO TRAPPING DEPTH: 720  
WMOO TRAP CLOSURE STD: 100 ppm PH

## SCALE

0 10 20 FEET

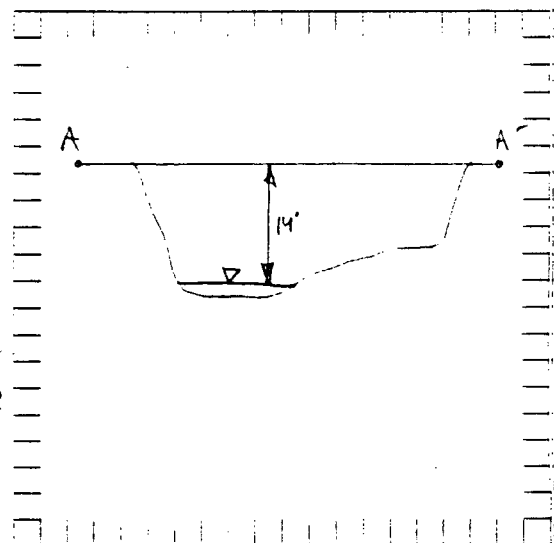
## PIT PERIMETER



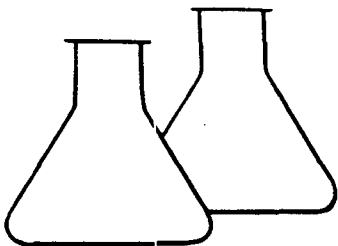
## OVM RESULTS

SAMPLE	FIELD HEADSPACE
1	PID (100m)
1	NS291 14
2	ES206 3
3	SS210 3
4	WS209 2
5	ER210 7
6	WB213 WATER
	LAB
5	418.1 - soil
6	BTEX - WATER

## PIT PROFILE



TRAVEL NOTES. CALLOUT: 3-31-94 ONSITE: 4-1-99 1100



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 EB @ 10'	Date Sampled:	04-01-94
Laboratory Number:	7144	Date Received:	04-01-94
Sample Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	20.0

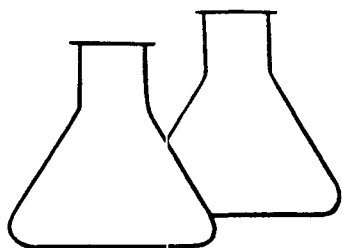
ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total  
Recoverable, Chemical Analysis of Water and  
Waste, USEPA Storet No.4551, 1978

Comments: Hare GC "C" #1/Abrams GC "B" #2 Blow Pit C4363

Tony Tristano  
Analyst

Morgan S. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	6 WB @ 13'	Date Reported:	04-05-94
Laboratory Number:	7145	Date Sampled:	04-01-94
Sample Matrix:	Water	Date Received:	04-04-94
Preservative:	HgCl & Cool	Date Analyzed:	04-04-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.7	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	1.4	0.2
o-Xylene	1.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	88 %
	Bromofluorobenzene	86 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Hare GC "C" #1/Abrams GC "B" #2 Blow pit C4363

Tony Tristano  
Analyst

Morris D. Young  
Review



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/4 SW/4 S-2S, T29N R10W NMAPM

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

COM. AGMT, SW 42

8. Well Name and No.

HARE 6C C #1

9. API Well No.

3004507771

10. Field and Pool, or Exploratory Area

DAKOTA

11. County or Parish, State

SAN JUAN, N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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B. J. Shaw

Title

Enviro. Coordinator

Date

4/25/94

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Conditions of approval, if any:

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Date