

3R - 114

REPORTS

DATE:

Feb. 19, 1999

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
100 Rio Brazos Rd., Artesia, 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

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

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 Approx. cubic yards 518
(Check all appropriate sections) Landfarmed Insitu Bioremediation _____
Other COMPOST

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

General Description Of Remedial Action: _____
Excavation

Ground Water Encountered: No _____ Yes 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 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

PEO

CLOSE

TAH = NO

ABRAMS

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

ENVIROTECH Inc.

PIT NO: C4363

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

C.O.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: 25 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: PEO

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 CLEAR.

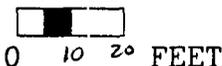
A. ABRAMS GC 'B' #2 ALSO BLOWS INTO THIS PIT

FIELD 418.1 CALCULATIONS

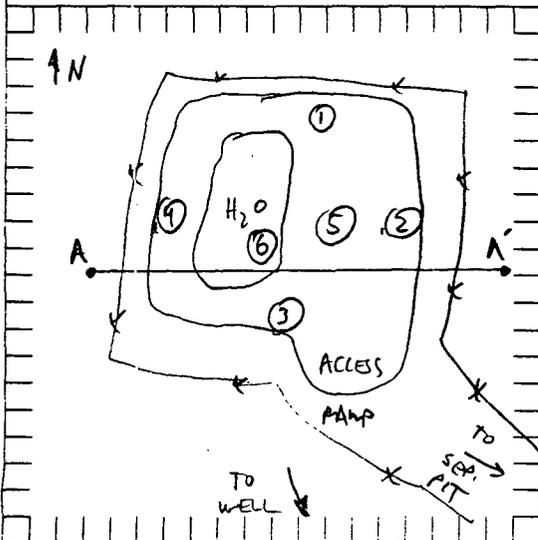
SAMPLE I.D.	LAB No:	WEIGHT (g)	ML. FREON	DILUTION	READING	CALC. ppm

DEPTH TO GROUNDWATER: 14'
NEAREST WATER SOURCE: > 1000'
NEAREST SURFACE WATER: > 1000'
NMDCD BANKING CODE: 720
NMDCD TSP CLOSURE LTD: 100 PPM 704

SCALE



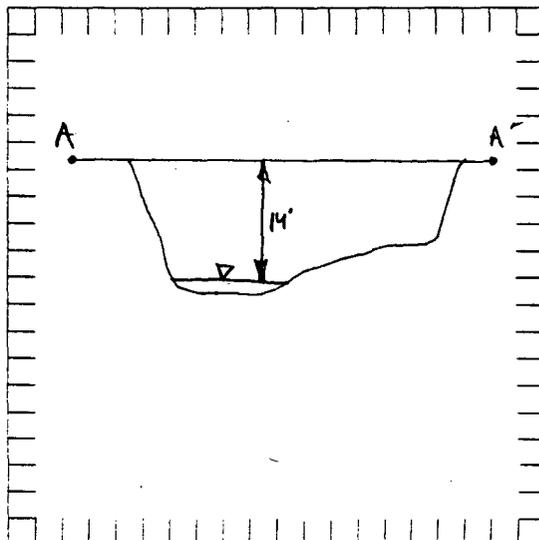
PIT PERIMETER



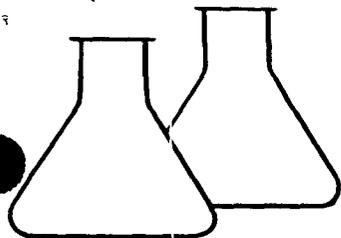
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① WS@9'	14
② ES@6'	3
③ SS@10'	3
④ WS@9'	2
⑤ EB@10'	7
⑥ WB@13' 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) -----
Total Petroleum Hydrocarbons	ND	20.0

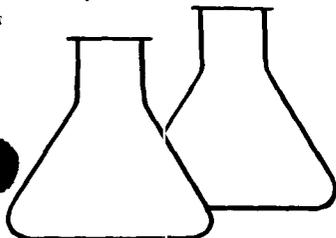
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Maris J. 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 Tustans
Analyst

Morris D Young
Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. 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>	DATE STARTED: <u>11-25-97</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>	DATE FINISHED: _____
QTR/FOOTAGE: <u>S10/4 S10/4</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>NV/EP</u>

SOIL REMEDIATION:

REMEDIATION 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'

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

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

NO STAIN OR HC ODOR.

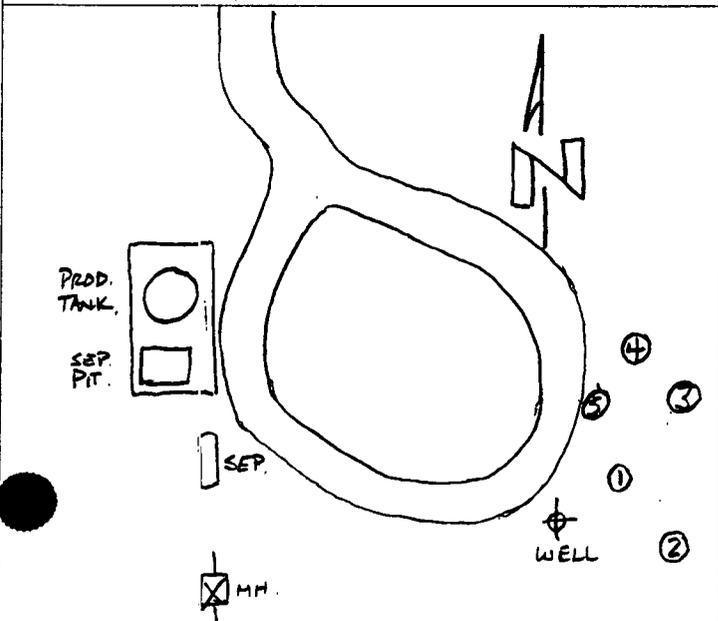
TOOK SPT COMP. FOR LAB. ANALYSIS.

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

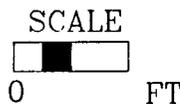
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
<u>LF-1</u>	<u>0.0</u>	<u>LF-1</u>	<u>8015</u>	<u>0820</u>	<u>ND</u>



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

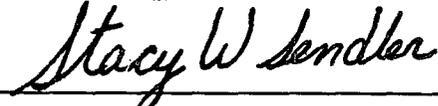
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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%

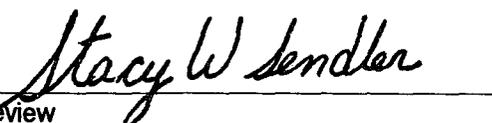
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	248	99%	75 - 125%
Diesel Range C10 - C28	ND	250	249	100%	75 - 125%

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

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 SEC: 25 TWP: 29N RNG: 10W BM: NM CNTY: SJ ST: NM</u>	DATE FINISHED: <u>9/12/94</u>
QTR/FOOTAGE: <u>SW/4 SW/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDIATION SYSTEM: COMPOST APPROX. CUBIC YARDAGE: 2300

LAND USE: RANGE/AGRICUL. LEASE: 5F-081061

FIELD NOTES & REMARKS:

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

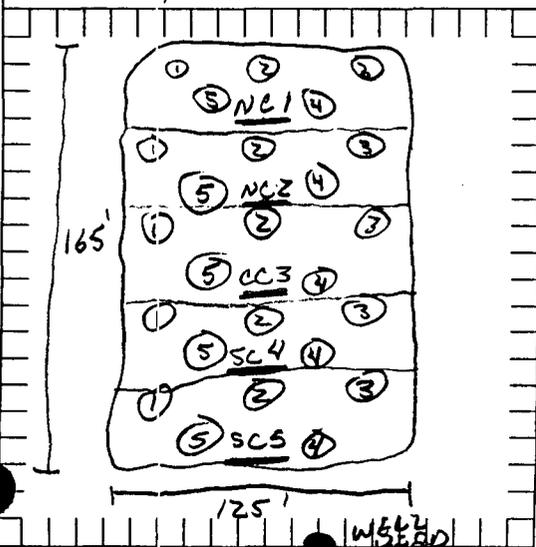
NMDCD RANKING SCORE: 20 NMDCD TPH CLOSURE STD: 100 PPM

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 GYM RESULTS

SAMPLE ID	FIELD H OME (PPM)
NL1	144
NL2	504
CC3	192
SC4	212
SC5	160

LAB SAMPLES

SAMPLE ID	ANALYSIS

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	Project #:	
Sample ID:	NC 1	Date Analyzed:	9-13-94
Project Location:	Hare GC C 1	Date Reported:	9-13-94
Laboratory Number:	TPH-1129	Sample Matrix:	Soil

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

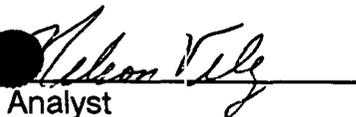
ND = Not Detectable at stated detection limits.

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	Project #:	
Sample ID:	NC 2	Date Analyzed:	9-13-94
Project Location:	Hare GC C 1	Date Reported:	9-13-94
Laboratory Number:	TPH-1130	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

Alison Vely
Analyst

P. E. O'Neil
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	Project #:	
Sample ID:	CC 3	Date Analyzed:	9-13-94
Project Location:	Hare GC C 1	Date Reported:	9-13-94
Laboratory Number:	TPH-1131	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	Project #:	
Sample ID:	SC 4	Date Analyzed:	9-13-94
Project Location:	Hare GC C 1	Date Reported:	9-13-94
Laboratory Number:	TPH-1132	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

Nelson Vely
Analyst

R. E. O'Neil
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	Project #:	
Sample ID:	SC 5	Date Analyzed:	9-13-94
Project Location:	Hare GC C 1	Date Reported:	9-13-94
Laboratory Number:	TPH-1133	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	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Pit closure</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.

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

Denial
No landform result

PIT REMEDIATION AND CLOSURE REPORT

Operator:	<u>Amoco Production Company</u>	Telephone:	<u>(505) - 326-9200</u>
Address:	<u>200 Amoco Court, Farmington, New Mexico 87401</u>		
Facility Or: Well Name	<u>HARE GC C #1</u>		
Location:	Unit or Qtr/Qtr Sec <u>M</u>	Sec <u>25</u>	T <u>29N</u> R <u>10W</u> County <u>SAN JUAN</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input type="checkbox"/>	Other <u>Blow</u>
Land Type:	BLM <input type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <u>Com. AGMT.</u>
Pit Location: (Attach diagram)	Pit dimensions: length <u>40'</u> , width <u>35'</u> , depth <u>10'</u>		
	Reference: wellhead <u>X</u> , other _____		
	Footage from reference: <u>220'</u>		
	Direction from reference: <u>30</u> Degrees <input type="checkbox"/> East North <u>X</u> of <u>X</u> West South <input type="checkbox"/>		
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)	<u>20</u>
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>0</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)	<u>0</u>
	RANKING SCORE (TOTAL POINTS):		<u>20</u>

Date Remediation Started: _____ Date Completed: 4/1/94

Remediation Method: Excavation Approx. cubic yards 518

(Check all appropriate sections) Landfarmed Insitu Bioremediation _____

Other COMPOST

Remediation Location: Onsite Offsite _____

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No _____ Yes 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 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 WATER - 24
 T - 2.7
 E - NO
 X - 2.6

RESULTS TO BE... 1-1-94

THF = 1/2

CLOSE

ABRAMS

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

ENVIROTECH Inc.

PIT NO: 24702

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

OB.O. 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. 25 TWP: 29N RNG: 10W BM: NM CNTY: CO ST: NM PIT #LOW
 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

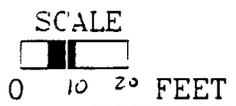
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 220' FEET N.30°W FROM WELLHEAD.
 SILTY SAND PIT - WATER @ ~ 14' NO SIGN OF CONTAMINATED SOILS REMAIN
 WATER - NO ODOOR, APPEARS CLEAR.

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

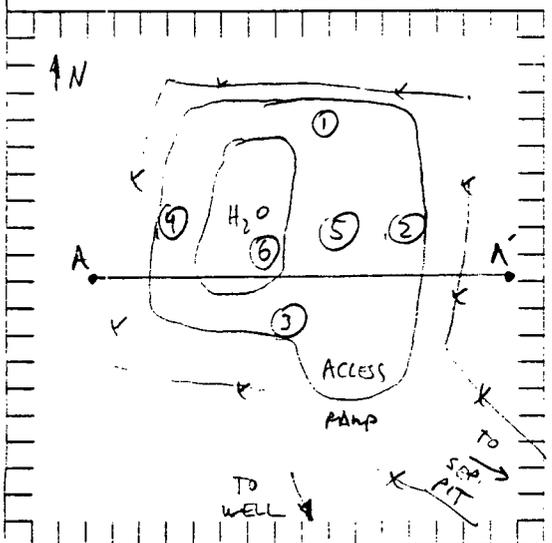
FIELD #181 CALCULATIONS

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

DEPTH TO GROUNDWATER: 14'
 NEAREST WATER SOURCE: > 1000'
 NEAREST SURFACE WATER: > 1000'
 WOOD TRAILING CODE: 720
 WOOD TRAILING CODE: 100 ppm 24



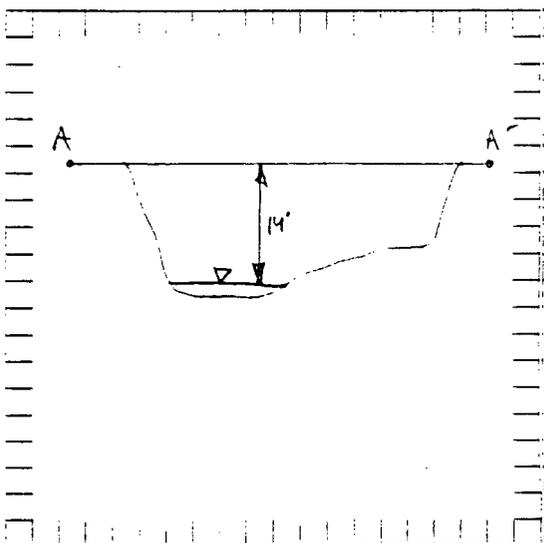
PIT PERIMETER



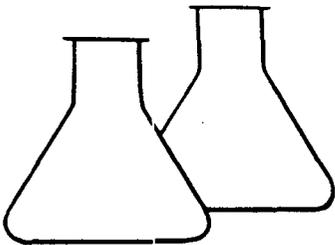
OVM RESULTS

SAMPLE	FIELD HEADSPACE
E	PID (ccm)
① US291	14
② ES061	3
③ SS2101	3
④ WS091	2
⑤ ER0101	7
⑥ WB213	WATER
	LAB
⑤	118.1 - soil
⑥	BTEX - WATER

PIT PROFILE



TRAVEL NOTES. CALLOUT: 3-31-99 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

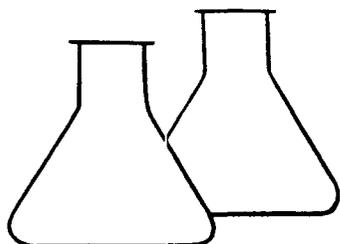
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Mavis 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.

300450771

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

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

Signed

B. J. 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: