

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer 100, Aztec, NM 87410

District III

DEPUTY OIL & GAS INSPECTOR

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

JAN 13 97

PIT REMEDIATION AND CLOSURE REPORT

A0051

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Florance 11A

Well Name

Location: Unit or Qtr/Qtr Sec J Sec 30 T30N R8W County San Juan

Pit Type: Separator Dehydrator Other blow

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 12', width 12', depth 6'

(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 125

Direction from reference: 80 Degrees ☒ East North ☐
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) 10

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): 10

Date Remediation Started: _____ Date Completed: 6/13/94

Remediation Method: Excavation ☒ Approx. cubic yards 32
(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: _____
Excavation

Ground Water Encountered: No ☒ 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 6'

Sample date 6/13/94 Sample time 945

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 6

TPH 98 ppm

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 6/13/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

called Earl 7/6/94

CLIENT: Amoco

ENVIROTECH Inc.

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

PIT NO: A0051

CALC. NO: 3733

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: Florange WELL #: 11A PIT: blow

QUAD/UNIT: J SEC: 30 TWP: 30N RNG: 8W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: Moss Excavation

DATE STARTED: _____

DATE FINISHED: 6/13/94

ENVIRONMENTAL
SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 12 FT. x 12 FT. x 6 FT. DEEP.

DISPOSAL FACILITY: landfirmed on-site CUBIC YARDAGE: 32

LAND USE: range LEASE: SF-079511-A

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 125 FEET S80E FROM WELLHEAD
DEPTH TO GROUNDWATER: 50-100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMCCD RANKING SCORE: 10 NMCCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

sand and gravel, light yellow brown, slightly moist, no odor
(conglomerate)

FIELD 418.1 CALCULATIONS

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

SCALE



0

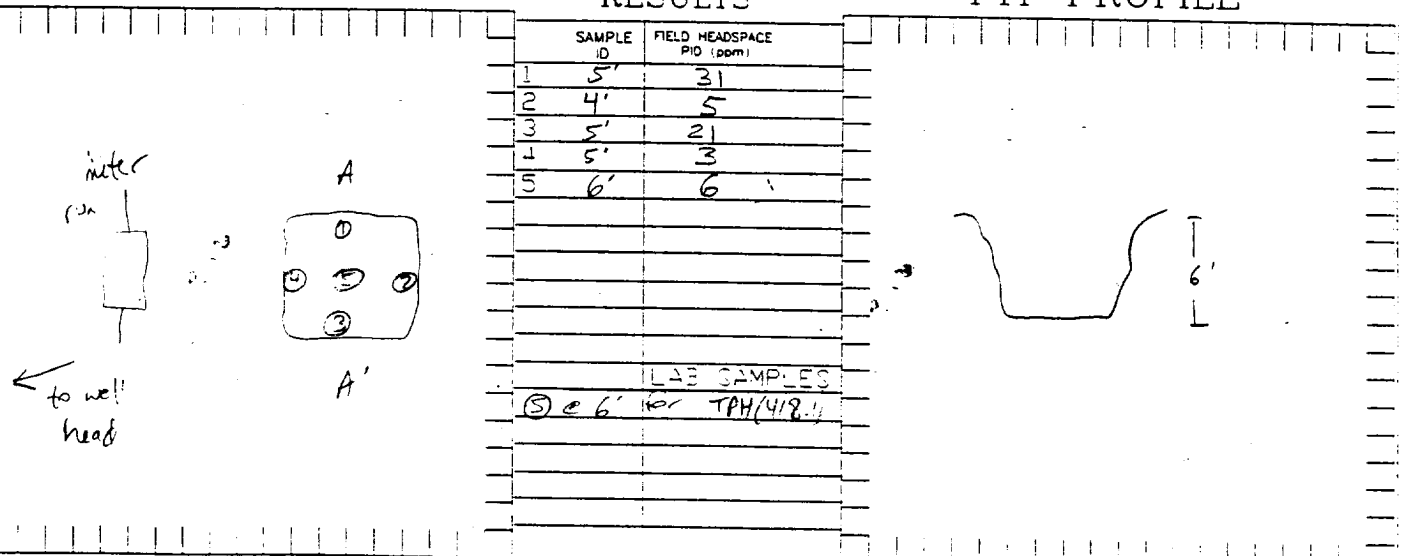
FEET

PIT PERIMETER



OV
RESULTS

PIT PROFILE



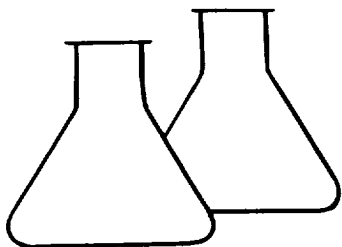
TRAVEL NOTES:

DEBLOUT:

6/10/94

ONSITE:

6/13/94



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 @ 6'	Date Sampled:	06-13-94
Laboratory Number:	7598	Date Received:	06-13-94
Sample Matrix:	Soil	Date Analyzed:	06-25-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	98	25.0

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: Florance 11A Blow Pit A0051.

Robert M. Young
Analyst

Morris D. Young
Review

DISTRICT I
P.O. Box 1980, Hobbs, NM
DISTRICT II
P.O. Drawer DD, Aztec, NM 88211
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

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Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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Santa Fe, New Mexico 87504-2088

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AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

A0051

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility or: Florance 11A
Well Name
Location: Unit or Qtr/Qtr Sec J Sec 30 T 30N R 8W County San Juan
Pit Type: Separator Dehydrator ✓ Other
Land Type: BLM ✓, State , Fee , Other

Pit Location: Pit dimensions: length 21', width 24', depth 12'
(Attach diagram) Reference: wellhead ✓, other
Footage from reference: 105
Direction from reference: 45 Degrees ✓ East North ✓
of
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) 10
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): 10

Date Remediation Started: _____ Date Completed: 6/13/94

Remediation Method: Excavation ☒ Approx. cubic yards 224
(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: _____
Excavation

Ground Water Encountered: No ☒ 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 12'

Sample date 6/13/94 Sample time 905

Sample Results

Benzene(ppm) 0.428

Total BTEX(ppm) 83,328

Field headspace(ppm) 624

TPH 1370 ppm

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 6/13/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

called Earl 7/6/94

CLIENT: Amoco

ENVIROTECH Inc.

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

PIT NO: A0051

C.E.C. NO: 3733

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: Florance WELL #: 11A PIT: dehyd.
QUAD/UNIT: J SEC: 30 TWP: 30N RNG: 8W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: Moss Excavation

DATE STARTED: 6/13/94
DATE FINISHED: 6/13/94

ENVIRONMENTAL
SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 21 FT. x 24 FT. x 12 FT. DEEP.
DISPOSAL FACILITY: landfirmed on-site CUBIC YARDAGE: 224
LAND USE: range LEASE: SF-079511-A

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 105 FEET N45E FROM WELLHEAD
DEPTH TO GROUNDWATER: 50-100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

excavation bottom = sandstone
dark yellow brown sand with some silt and clay; some dark gray staining;
slightly moist

FIELD 418.1 CALCULATIONS

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

SCALE

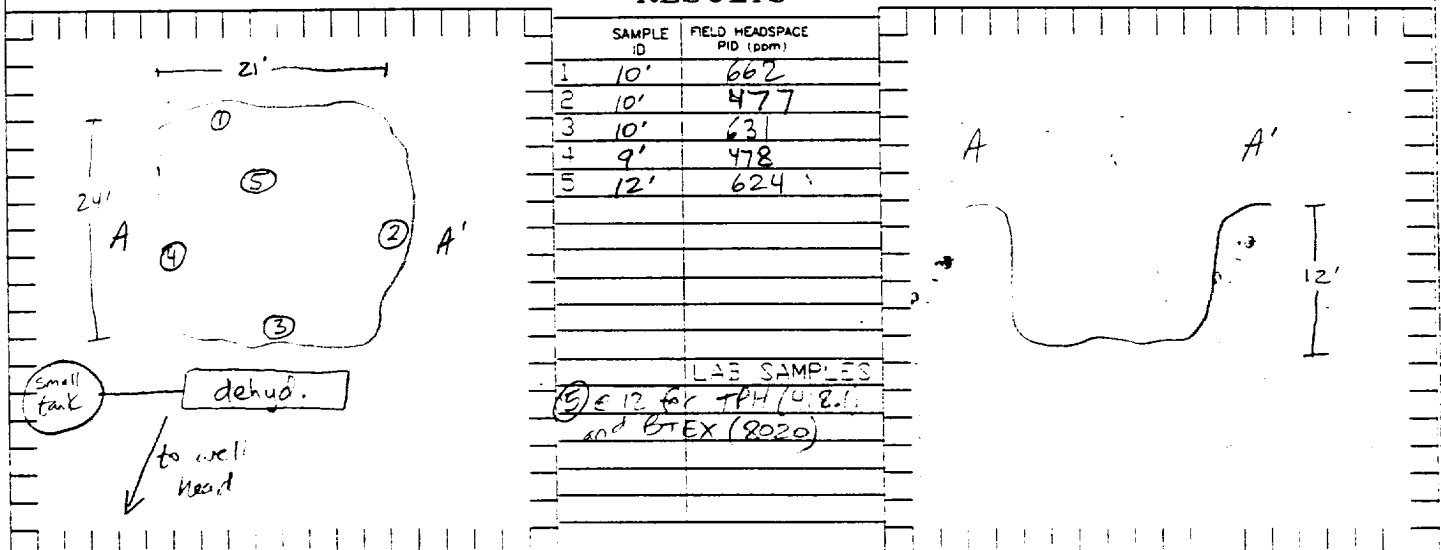


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FEET
PIT PERIMETER

OVM
RESULTS

PIT PROFILE



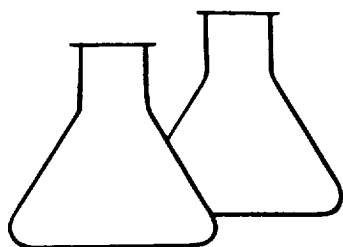
TRAVEL NOTES:

CALLOUT:

6/10/94

ONSITE:

6/13/94



ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

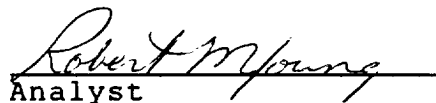
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 12'	Date Sampled:	06-13-94
Laboratory Number:	7597	Date Received:	06-13-94
Sample Matrix:	Soil	Date Analyzed:	06-25-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	1370	25.0

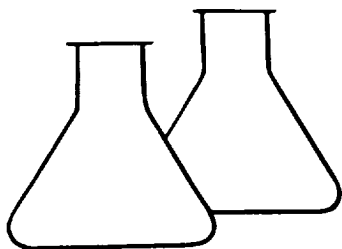
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Florance 11A Dehydrator Pit A0051


Analyst


Review



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 12'	Date Reported:	06-17-94
Laboratory Number:	7597	Date Sampled:	06-13-94
Sample Matrix:	Soil	Date Received:	06-13-94
Preservative:	Cool	Date Extracted:	06-13-94
Condition:	Cool & Intact	Date Analyzed:	06-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	428	13.4
Toluene	33000	33.5
Ethylbenzene	7700	13.4
p,m-Xylene	6300	13.4
o-Xylene	35900	13

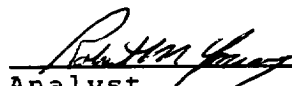
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	85 %
	Bromofluorobenzene	88 %

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: Florance 11A Dehy Pit A0051.


Analyst


Review

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

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DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICEPTT REMEDIATION AND CLOSURE REPORT

A0051

Operator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: Florance 11A
Well NameLocation: Unit or Qtr/Qtr Sec J Sec 30 T 30N R 8W County San JuanPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: BLM ☒, State ☐, Fee ☐, Other ☐Pit Location: Pit dimensions: length 15', width 15', depth 11'
(Attach diagram)Reference: wellhead ☒, other ☐Footage from reference: 90Direction from reference: 50 Degrees ☒ East North ☐
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) 10

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) 0RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 6/13/94

Remediation Method: Excavation ☒ Approx. cubic yards 92
(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: _____

Excavation

Ground Water Encountered: No ☒ 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 11'

Sample date 6/13/94 Sample time 1025

Sample Results

Benzene(ppm) 0.049

Total BTEX(ppm) 11.228

Field headspace(ppm) 568

TPH 970 ppm

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 6/13/94
SIGNATURE Buddy D. Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

called Earl 7/6/94

CLIENT: Amoco

ENVIROTECH Inc.

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

PIT NO: A0051

C.E.C. NO: 3733

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: Flarance WELL #: 11A PIT: sep.

QUAD/UNIT: J SEC: 30 TWP: 30N RNG: 8W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: Moss Excavation

DATE STARTED: 6/13/94

DATE FINISHED: 6/13/94

ENVIRONMENTAL SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 15 FT. x 11 FT. DEEP.

DISPOSAL FACILITY: landfilled on-site CUBIC YARDAGE: 92

LAND USE: range LEASE: SE-079511-A

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FEET SSOE FROM WELLHEAD.

DEPTH TO GROUNDWATER: 50-100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMCCD RANKING SCORE: 10 NMCCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

sand + gravel bottom (conglomerate); light yellow brown sand; slightly moist
(2')

sep. side = dark gray stained bottom 2' (can't excavate further due to sep.)

FIELD 418.1 CALCULATIONS

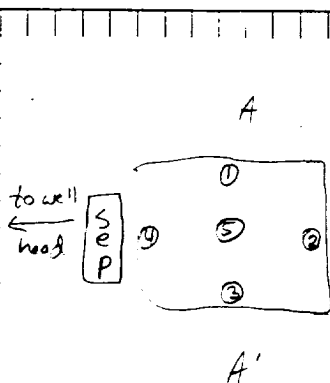
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0 FEET

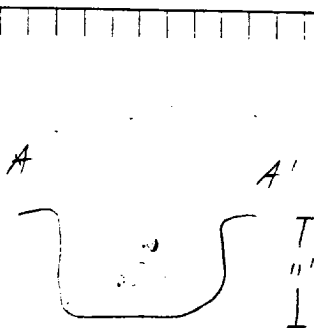
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P10 (ppm)
1	9'
2	9'
3	8'
4	9'
5	11'

PIT PROFILE

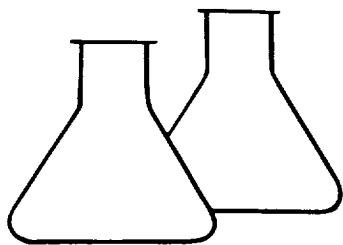


LAB SAMPLES
③ & 11' for TPH (418.1)
and BTEX (8020)

TRAVEL NOTES:

CALLOUT: 6/10/94

ONSITE: 6/13/94



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 11'	Date Sampled:	06-13-94
Laboratory Number:	7599	Date Received:	06-13-94
Sample Matrix:	Soil	Date Analyzed:	06-25-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	970	25.0

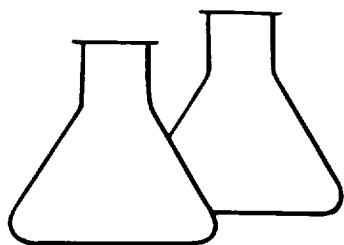
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Florance 11A Separator Pit A0051

Robert M. Young
Analyst

Morris 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:	5 @ 11'	Date Reported:	06-17-94
Laboratory Number:	7599	Date Sampled:	06-13-94
Sample Matrix:	Soil	Date Received:	06-13-94
Preservative:	Cool	Date Extracted:	06-13-94
Condition:	Cool & Intact	Date Analyzed:	06-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	49	13.3
Toluene	2900	33.2
Ethylbenzene	279	13.3
p,m-Xylene	ND	13.3
o-Xylene	8000	13

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	105 %

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: Florance 11A Sep Pit A0051.

[Signature]

[Signature]