

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

District II

P.O. Drawer 100, Farmington, NM 87401

District III

DEPUTY OIL & GAS INSPECTOR

1000 Rio Brava 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

A0050

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Florence O 20A

Well Name

Location: Unit or Qtr/Qtr Sec J Sec 24 T 30N R 9W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 12', width 15', depth 5'
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 70

Direction from reference: 20 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) 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: 6/8/94

Remediation Method: Excavation ☒ Approx. cubic yards 33
(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 4'

Sample date 6/8/94 Sample time 1320

Sample Results

Benzene(ppm) 0.324

Total BTEX(ppm) 29.014

Field headspace(ppm) 514

TPH 2800 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 6/15/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

called Earl w/ results 6/15/94

CLIENT: Amor

ENVIROTECH Inc.

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

PIT NO: A0050

DEC NO: 3722

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92148

PAGE No: 1 of 1

LOCATION: NAME: Fluence 0 WELL # 20A PIT: SEP
QUAD/UNIT: 3 SEC: 24 TWP: 30N RNG: 9W BM: Nm CNTY: SJ ST: NM
QTR/FOOTAGE: NE/SE (over signs 5-7) (NW/SE) CONTRACTOR: Moss

DATE STARTED: 6/5/94
DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: Tom Hansen

SOIL REMEDIATION: EXCAVATION APPROX. 12 FT. x 15 FT. x 5 FT. DEEP.

DISPOSAL FACILITY: Landfill on site CUBIC YARDAGE: 33

LAND USE: Range LEASE: 82-078201

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 70' FEET NW FROM WELLHEAD.
DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'

NMOC RANKING SCORE: 40 NMOC TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

- gray/black hard dry clay (or drystone)
- could not collect sample from bottom of pit (too hard)
- sample (12' x 4' x 12' @ 13'2")
sent to lab for TPH (4K) + TEX (500)

FIELD 418: CALCULATIONS

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

SCALE

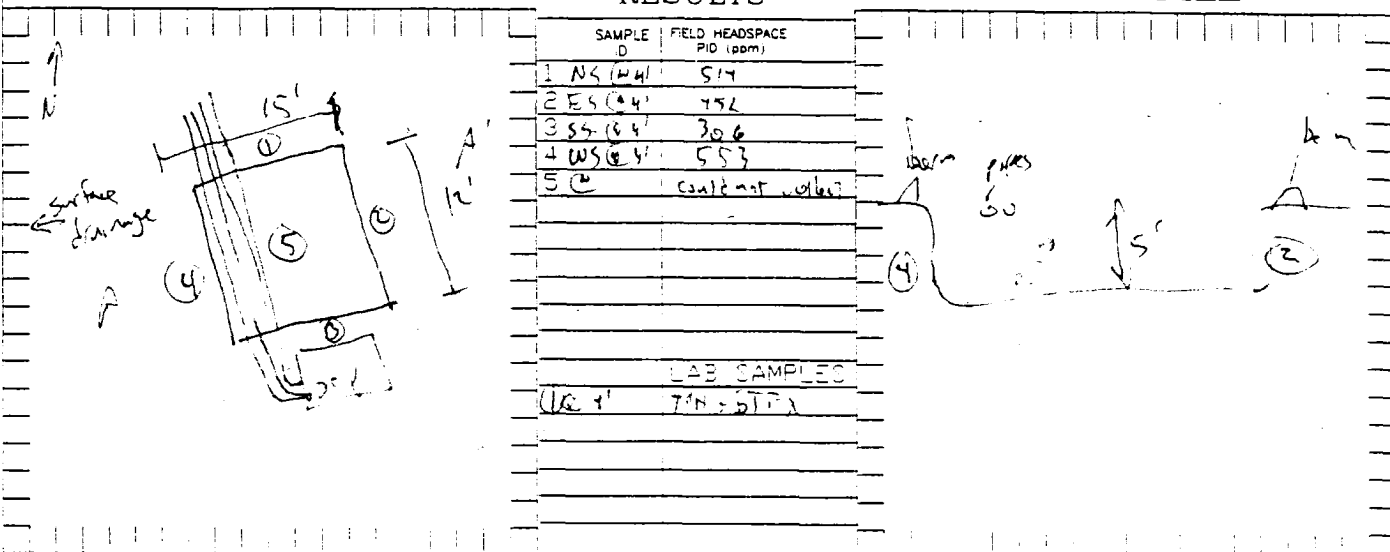


0 FEET

PIT PERIMETER

OVM RESULTS

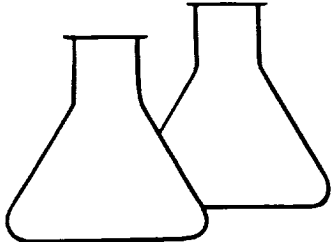
PIT PROFILE



TRAVEL NOTES

CALLOUT: 6/5/94

ON SITE: 6/5/94



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:	1 @ 4'	Date Sampled:	06-08-94
Laboratory Number:	7567	Date Received:	06-08-94
Sample Matrix:	Soil	Date Analyzed:	06-13-94
Preservative:	Cool	Date Reported:	06-15-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	2800	25.0

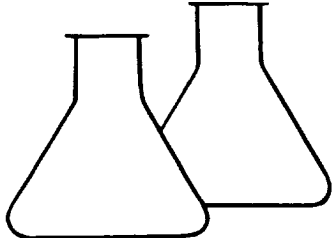
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Florance O #20A Sep Pit -- A0050


Analyst


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:	1 @ 4'	Date Reported:	06-13-94
Laboratory Number:	7567	Date Sampled:	06-08-94
Sample Matrix:	Soil	Date Received:	06-08-94
Preservative:	Cool	Date Extracted:	06-09-94
Condition:	Cool & Intact	Date Analyzed:	06-11-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	324	13.4
Toluene	13400	33.4
Ethylbenzene	990	13.4
p,m-Xylene	6600	13.4
o-Xylene	7700	13

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromofluorobenzene	247 %

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 O #20A Sep Pit A0050.
Excessive surrogate recovery due to coelution.

Robert M. Young
Analyst

Morris D. Young
Review

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DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Santa Fe, New Mexico 87504-2088

A0050

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 6/8/94

Remediation Method: Excavation ☒ Approx. cubic yards 9
(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 3'
Sample date 6/8/94 Sample time 1350

Sample Results
Benzene(ppm) 6.4
Total BTEX(ppm) 214.44
Field headspace(ppm) 536
TPH 23,500 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 6/15/94
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw
Environmental Coordinator

CLIENT: Amoco

ENVIROTECH Inc.

PIT NO: A00505796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615CLOSURE NO: 3722

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1LOCATION: NAME: Florange WELL #: 20A PIT: Prod.
QUAD/UNIT: J SEC: 24 TWP: 30N RNG: 9W BM: NM CNTY: ST ST: NM
QTR/FOOTAGE: NW/4 or NW/1SE CONTRACTOR: MossDATE STARTED: 6/8/94
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: Tom HaysenSOIL REMEDIATION: EXCAVATION APPROX. 8 FT. x 8 FT. x 4' FT. DEEP.
DISPOSAL FACILITY: Landfill on site CUBIC YARDAGE: ~9
LAND USE: Rangeland LEASE: S2-078201FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75 FEET S40°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: 7'00 NEAREST WATER SOURCE: 7'000' NEAREST SURFACE WATER: 7'000'
NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 500 PPM

SOIL AND EXCAVATION DESCRIPTION:

- 0 to 2' yellow-brown silty sand
- 2' to bottom yellow grey - sandy siltstone to silty sandstone - very hard - dry & slightly moist - excavated into bedrock
- sample 4 @ 3' collected at 13:50

FIELD #18: CALCULATIONS & Soil to Lab for TPH (418.1)

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

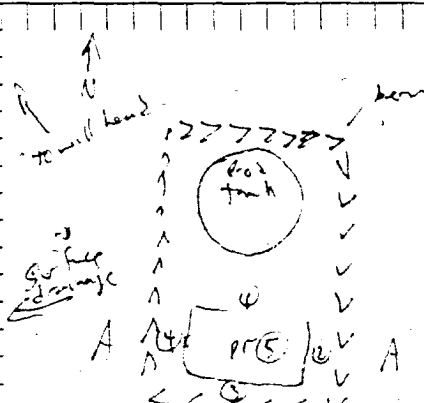
+ DTEX (18020)

SCALE



0 FEET

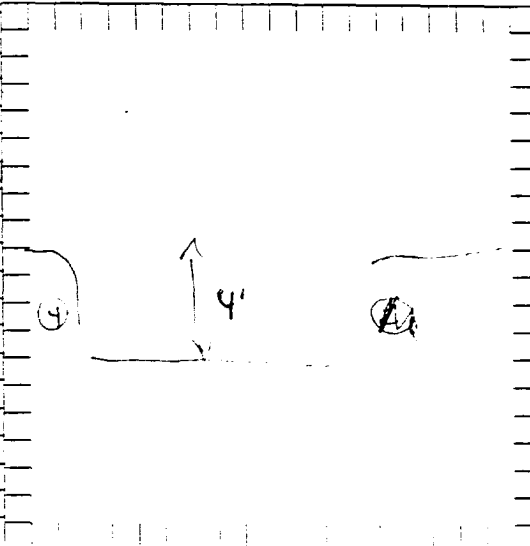
PIT PERIMETER



OVM RESULTS

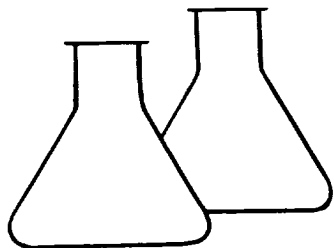
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 N5123'	20
2 BSC	CO-12 (not collected)
3 SSC 3'	13
4 WSK 3'	536
5 G	CO-12 (not collected)
LAB SAMPLES	
4 (23'	TPH + DTEX

PIT PROFILE



TRAVEL NOTES:

CALCULATED: 6/5/94ON SITE: 6/5/94



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:	4 @ 3'	Date Sampled:	06-08-94
Laboratory Number:	7568	Date Received:	06-08-94
Sample Matrix:	Soil	Date Analyzed:	06-13-94
Preservative:	Cool	Date Reported:	06-15-94
Condition:	Cool and Intact	Analysis Needed:	TPH

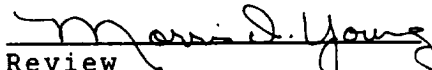
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	23500	25.0

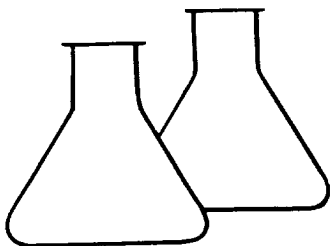
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Florance O #20A Prod. Pit -- A0050


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:	4 @ 3'	Date Reported:	06-13-94
Laboratory Number:	7568	Date Sampled:	06-08-94
Sample Matrix:	Soil	Date Received:	06-08-94
Preservative:	Cool	Date Extracted:	06-09-94
Condition:	Cool & Intact	Date Analyzed:	06-11-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	6400	13.4
Toluene	104100	33.5
Ethylbenzene	7440	13.4
p,m-Xylene	6000	13.4
o-Xylene	90500	13

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	483 %
	Bromofluorobenzene	266 %

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 O #20A Prod Pit A0050.
Excessive surrogate recovery due to coelution.

Robert M. Young
Analyst

Morris D. Young
Review