

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Box 1980, Hobbs, NM

District III

1000 Rio Brazos

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
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Daum LS 5
Well Name

Location: Unit or Qtr/Qtr sec K sec 32 T28N R9W County San Juan

Pit Type: Separator Dehydrator ☒ Other

Land Type: BLM ☒, State, Fee, Other

Pit Location: Pit dimensions: length 30', width 30', depth 17'
(Attach diagram)

Reference: wellhead ☒, other

Footage from reference: 110

Direction from reference: 3 Degrees East North ☒
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

Date Remediation Started: _____

Date Completed: 5/13/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Landfarmed ☒

Approx. cubic yards 567

Insitu Bioremediation _____

Other _____

Remediation Location: _____

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

Onsite ☒ Offsite _____

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: _____

No ☒

Yes _____

Depth _____

Final Pit:

Closure Sampling:

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

Sample location see Attached Documents

Sample depth 15'

Sample date 5/13/94

Sample time 1015

Sample Results

Benzene (ppm) ND

Total BTEX (ppm) 53.63

Field headspace (ppm) 682

TPH 4730

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 5/24/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Env. Eng.

results copied to Johnny 5/25/94

Lease SE-07232nd 6104'

CLIENT: Amoco

ENVIROTECH Inc.

PIT NO: A0004

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

C.O.C. NO: 3619

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: Dawn LS WELL #: 5 PIT: dehydrator
UNIT: K SEC: 32 TWP: 28N RNG: 9W BM: NM CNTY: SJ ST: NM
CONTRACTOR: EPC

DATE STARTED: 5/13/94
DATE FINISHED: 5/13/94
ENVIRONMENTAL SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 30 FT. x 17 FT. DEEP.

DISPOSAL FACILITY: landfirmed on-site

LAND USE: range

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 110 FEET N3W FROM WELLHEAD.

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

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

SW point of excavation is ~5' from old sep. line; ~6' thick area of black (w/odor) sandy soil is located under the dehydrator. App. 1-2' thick band of darker soil is noted on south wall of excavation (~13' down). Bottom of excavation is bedrock; soil ranges from dark yellow brown to dark gray sand.

soil sample collected for TPH(418.1) - ⑤ @ 17'; time = 1005; BTEX(8020) - ④ @ 15'; time = 1015

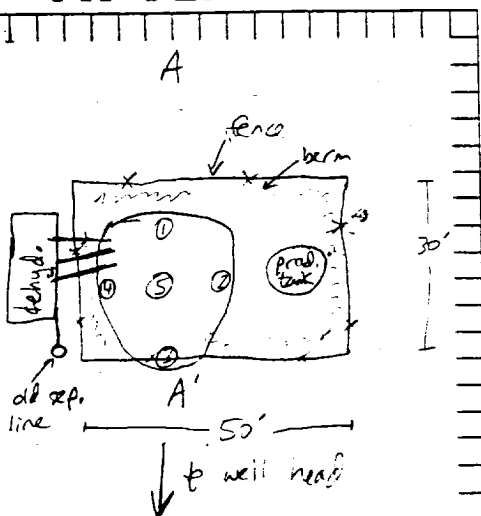
FIELD 418.1 CALCULATIONS

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

SCALE



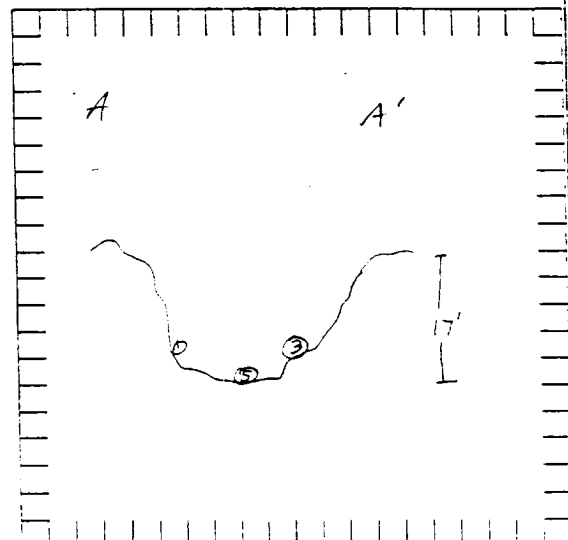
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P10 (ppm)
① @ 15'	8
② @ 15'	6
③ @ 15'	6
④ @ 15'	682
⑤ @ 17'	637
⑤ for TPH/418.1	
④ for BTEX/8020	

PIT PROFILE

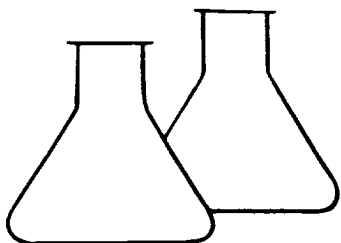


TRAVEL NOTES.

5/12/94

ONSITE.

5/13/94



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 @ 17'	Date Sampled:	05-13-94
Laboratory Number:	7414	Date Received:	05-13-94
Sample Matrix:	Soil	Date Analyzed:	05-20-94
Preservative:	Cool	Date Reported:	05-20-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	4,730	150

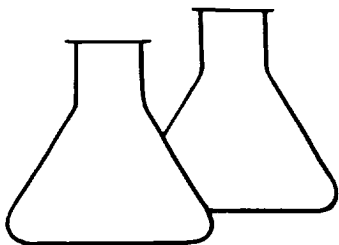
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Daum LS5 Dehy Pit C0004

Tony Tristano
Analyst

Maris 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:	4 @ 15'	Date Reported:	05-17-94
Laboratory Number:	7415	Date Sampled:	05-13-94
Sample Matrix:	Soil	Date Received:	05-13-94
Preservative:	Cool	Date Extracted:	05-16-94
Condition:	Cool & Intact	Date Analyzed:	05-16-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.2
Toluene	1,020	33.0
Ethylbenzene	2,410	13.2
p,m-Xylene	38,500	19.8
o-Xylene	11,700	13.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	101 %

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: Daum LS 5 Dehydrator Pit A0004

Devin L. Jensen
Analyst

Marion D. Young
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

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

PIT REMEDIATION AND CLOSURE REPORT

A0003

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: Daum LS 5
Well Name _____
Location: Unit or Qtr/Qtr Sec K Sec 32 T 28N R 9W County San Juan
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM ☒ State _____ Fee _____ Other _____

Pit Location: Pit dimensions: length 24', width 24', depth 13'
(Attach diagram) Reference: wellhead ☒ other _____
Footage from reference: 55
Direction from reference: 70 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) C
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) C
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) C
irrigation canals and ditches)

PENDING SCORE (TOTAL POINTS):

Date Remediation Started: _____

Date Completed: 5/13/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Landfarmed ☒

Other _____

Approx. cubic yards 277

In situ Bioremediation _____

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

Onsite ☒ Offsite _____

General Description of Remedial Action: _____

Excavation

Ground Water Encountered: _____

No ☒

Yes _____

Depth _____

Final Pit:

Closure Sampling:

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

Sample location see Attached Documents

Sample depth 13'

Sample date 5/13/94

Sample time 1030

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) ND

TPH ND

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 5/24/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Env. Eng.

results copied to Johnny 5/25/94

Sect. 6104

1800' FSL 1650' FSL

Lease # SF-078329

CLIENT: <u>Amoco</u>	ENVIROTECH Inc.	PIT NO: <u>40003</u>
5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615		C.O.C. NO: <u>3615</u>

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: Daum WELL #: L55 PIT: SEP
UNIT: K SEC: 32 TWP: 26N RNG: 9W BM: NM CNTY: San Juan ST: NM
CONTRACTOR: EPC

DATE STARTED: _____
DATE FINISHED: 5-13-94
ENVIRONMENTAL SPECIALIST: TH

SOIL REMEDIATION: EXCAVATION APPROX. 24 FT. x 24 FT. x 13 FT. DEEP.
DISPOSAL FACILITY: Land farm on-site
LAND USE: Range

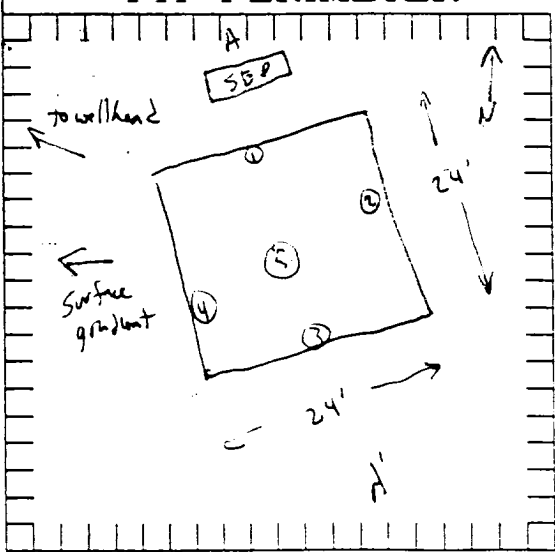
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 55 FEET S70°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST SURFACE WATER: >1000' NEAREST WATER SOURCE: >1000'
NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM
SOIL AND EXCAVATION DESCRIPTION: side walls & bottom of pit are silty sandstone
- soil (Bedrock) is slightly moist to moist (probably from rain) - silty sand, yellow to brown
- 5 soil samples collected for land space analysis. ⑤ submitted to Lab for TPH (418.1) - sampled @ 10:30

FIELD 418.1 CALCULATIONS

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



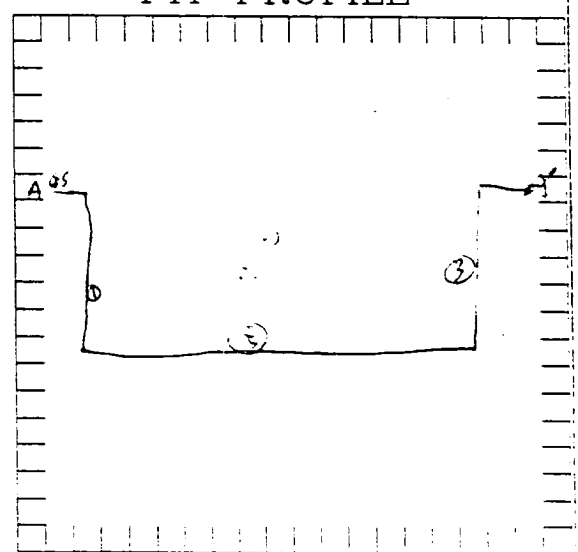
PIT PERIMETER

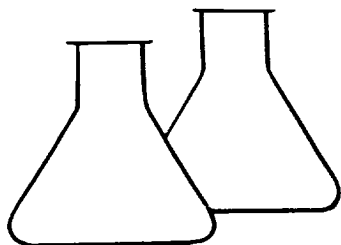


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
007'	ND
006'	ND
003'	ND
003'	ND
003'	ND
5' GR	TPH (418.1)

PIT PROFILE





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 @ 13'	Date Sampled:	05-13-94
Laboratory Number:	7413	Date Received:	05-13-94
Sample Matrix:	Soil	Date Analyzed:	05-20-94
Preservative:	Cool	Date Reported:	05-20-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	15.0

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: Daum LS5 Sep Pit C0003

Tony Testano
Analyst

Mavis D. Young
Review