AO119

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

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

JAN 16 1996

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name L.C. KELLY #6

Location: Unit or Qtr/Qtr Sec B Sec 11 T 30 N R 12 W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other DRIP

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)

Pit dimensions: length 30', width 30', depth 47'

Reference: wellhead X, other ___

Footage from reference: 150

Direction from reference: 60 Degrees X East North ___ of ___ West South X

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

AO119

Date Remediation Started: _____ **Date Completed:** 6-13-95

Remediation Method: (Check all appropriate sections)
Excavation X Approx. cubic yards 1567
Landfarmed X Insitu Bioremediation ___
Other _____

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

General Description Of Remedial Action: Excavation

Ground Water Encountered: No X 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 40'

Sample date 6-13-95 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 713

TPH 20,000 ppm

Ground Water Sample: Yes ___ No X (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 8-8-95

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: A0119
C.I.C. NO: ~~Hall~~ HMB 4227

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 2

LOCATION: NAME: L.C. Rolly (B) WELL #: #6 PIT: Drip / Sep
QUAD/UNIT: N04 N04 SEC: 11 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR: ENVIROTECH

DATE STARTED: 5-19-95
DATE FINISHED: 6-13-95
ENVIRONMENTAL SPECIALIST: HMB/CJC

EXCAVATION APPROX. 30 FT. x 30 FT. x 47 FT. DEEP. CUBIC YARDAGE: 1567
DISPOSAL FACILITY: on site Landfarm. REMEDIATION METHOD:
LAND USE: Range LEASE: Federal FORMATION: Surface Terrace Deposit.

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FT. ESE FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
✓ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION: Active Drip/Blowdown pit.

Sandy Cobble

① @ 10' - 166ppm
② @ 11' - 40ppm
③ @ 10' - 50ppm.
④ @ 7' - 88ppm (uphill)
⑤ @ 14' - 761ppm.
Heavy oil visible

⑤ @ 35', 23,000ppm 485ppm @ VM
⑤ @ 40' 20,000 ppm 713ppm @ VM

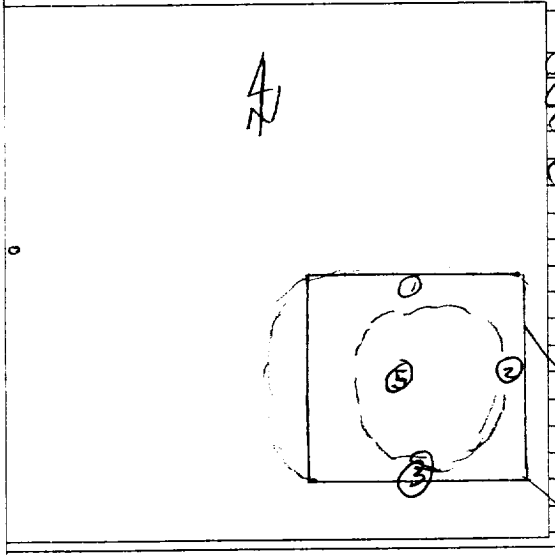
⑤ @ 22' - 308ppm 5-24-95
② @ 8' - 71ppm 5-24-95

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1030	⑤@40'	1073	10.80	20.0	100	107	20,000
1130	①@36'	1074	10.58	20.0	1	70	76
1200	③@40'	1075	10.34	20.0	10	106	2050
1300	②@40'	1079	10.05	20.0	25	50	

SCALE
0 FT

PIT PERIMETER



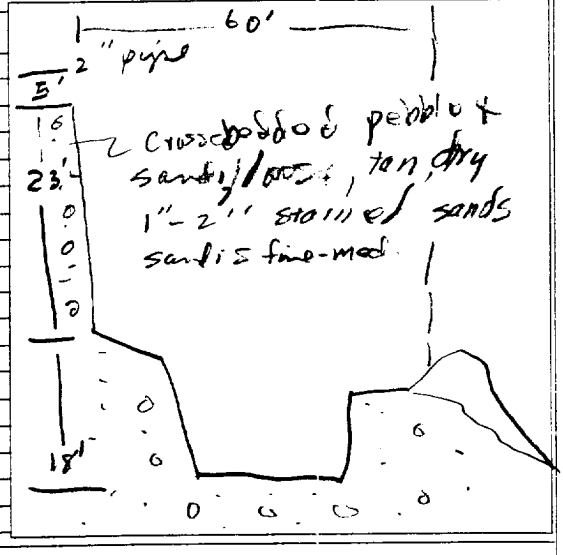
RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
①@36'	8.0
②@40'	2.0
③@40'	98.0
⑤@40'	713

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
NONE		

PIT PROFILE



TRAVEL NOTES: CALLOUT: ONSITE:

cont.

CLIENT: AMOCO

ENVIROTECH Inc.

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

PIT NO: A0119

C.J.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: _____

PAGE No: 2 of 2

LOCATION: NAME: L.C. Kelly WELL #: 6 PIT: Sep / DRIP

QUAD/UNIT: SEC: TWP: RNG: BM: CNTY: ST:

QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 5/25/93

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: HMB/CJC

SOIL REMEDIATION: EXCAVATION APPROX. _____ FT. x _____ FT. x _____ FT. DEEP.

DISPOSAL FACILITY: _____ CUBIC YARDAGE: _____

LAND USE: _____ LEASE: _____

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

DEPTH TO GROUNDWATER: _____ NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER _____

NMOCD RANKING SCORE: _____ NMOCD TPH CLOSURE STD: _____ PPM

SOIL AND EXCAVATION DESCRIPTION:

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
BTM@30'	1070	10.24	20	100	195	38,000
SW@25'	1071	9.98	20	1	80	160

SCALE

0 FEET

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 BTM@30'	578
2 SW@25'	25.0
3	
4	
5	

LAB SAMPLES

PIT PROFILE

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	E. Wall @ 40'	Date Analyzed:	05/30/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1079	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	50	10

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

C. Jack Collins
Analyst

Stacy W. Sendler
Review

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	S. Wall @ 27'	Date Analyzed:	05/25/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1071	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	160	10

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

C. Jack Collins
Analyst

Stacy W. Sendler
Review

ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	S. Wall @ 40'	Date Analyzed:	05/30/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1075	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,100	100

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

Analyst

Review

ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	W. Wall @ 36'	Date Analyzed:	05/30/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1074	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	76	10

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 22'	Date Reported:	05-24-95
Laboratory Number:	8537	Date Sampled:	05-24-95
Chain of Custody No:	4227	Date Received:	05-24-95
Sample Matrix:	Soil	Date Extracted:	05-24-95
Preservative:	Cool	Date Analyzed:	05-24-95
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	13900	10.0

ND = Parameter not detected at the stated detection limit.

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

Comments: A-0119 - L.C. Kelly #6A. HMB HMB

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	Bottom @ 28'	Date Analyzed:	05/25/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1070	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	38,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

Analyst

Review

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	Bottom @ 35'	Date Analyzed:	05/30/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1072	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	23,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

C. Jack Collins
Analyst

Stacy W. Gordon
Review

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	91412
Sample ID:	Bottom @ 40'	Date Analyzed:	05/30/95
Project Location:	L. C. KELLY # 6	Date Reported:	05/31/95
Laboratory Number:	GAC1073	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	20,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	76	57	29

*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit # A0119

C. Jack Colburn
Analyst

Review

Well Name:	**L.C. Kelly #6**
Well Site location:	Unit B, Sec. 11, T30N, R12W
Pit Type:	Drip Pit
Producing Formation:	Mesaverde
Pit Category:	Area III
Horizonal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when practical vertical extent was reached with a trackhoe. It is conceived that sandstone bedrock underlies the bottom of the excavated area at a close proximity.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Groundwater levels located on or close to the well pad are estimated to be at least 60 feet below the vertical extent of the excavation. Topographical information suggest that sandstone bedrock (Nacimiento Formation) below the terrace gravels (pit location) is highly likely, therefore further reducing the risk of groundwater impact.

2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.

3. Daily discharge into the earthen pit has been terminated (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.

4. Field headspace readings (OVM/PID) on Mesaverde type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are a few typical AMOCO Mesaverde pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
L.C. Kelly #6A	**833**	**0.033**	**2.857**
Johnston LS 7	**998**	**0.017**	**24.985**
Neil LS 7A	**819**	**0.282**	**0.440**

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Mesaverde type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited. Vertical impact poses no threat to present or foreseeable beneficial use of fresh water based upon the extensive vertical depth to groundwater from the total depth reached within the pit. AMOCO requests pit closure approval on this location.

Well Name:	**L.C. Kelly #6**
Well Site location:	Unit B, Sec. 11, T30N, R12W
Pit Type:	Drip Pit
Producing Formation:	Mesaverde
Pit Category:	Area III
Horizonal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT

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L.C. Kelly #6A	**833**	**0.033**	**2.857**
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CLIENT: AMOCO

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: A0119
C.O.C. NO: ~~HMB~~ ~~Hall~~ 4227

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 2

LOCATION: NAME: L.C. Rolly # WELL #: #6 PIT: Drip / Sep
QUAD/UNIT: (B) NW NE SEC: 11 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR: ENVIROTECH

DATE STARTED: 5-19-95
DATE FINISHED: 6-13-95
ENVIRONMENTAL SPECIALIST: HMB/CJC

EXCAVATION APPROX. 30 FT. x 30 FT. x 47 FT. DEEP. CUBIC YARDAGE: 1567
DISPOSAL FACILITY: on site Landfarm REMEDIATION METHOD:
LAND USE: Range LEASE: Federal FORMATION: Surface TERRACE Deposit

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FT. ESE FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE
✓ PIT ABANDONED
✓ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION: ACTIVE Drip/Blowdown pit.

Sandy Cobble

① @ 10' - 166ppm
② @ 11' - 40 ppm
③ @ 10' - 50 ppm.
④ @ 7' - 88ppm (caliche)
⑤ @ 14' - 761 ppm.
Heavy oil visible.

⑤ @ 22' - 308 ppm 5-24-95
② @ 8' - 7.1 ppm - 5-24-95

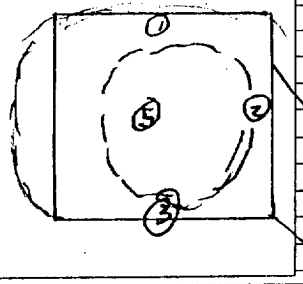
⑤ @ 35' 23,000 ppm 485 ppm @ VM
⑤ @ 40' 20,000 ppm 713 ppm @ VM

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1030	⑤ @ 40'	1073	10.80	20.0	100	107	20,000
1030	① @ 36'	1074	10.58	20.0	1	40	76
1200	② @ 40'	1075	10.34	20.0	10	106	2050
1200	③ @ 40'	1076	10.05	20.0	25	50	

SCALE
0 FT

PIT PERIMETER



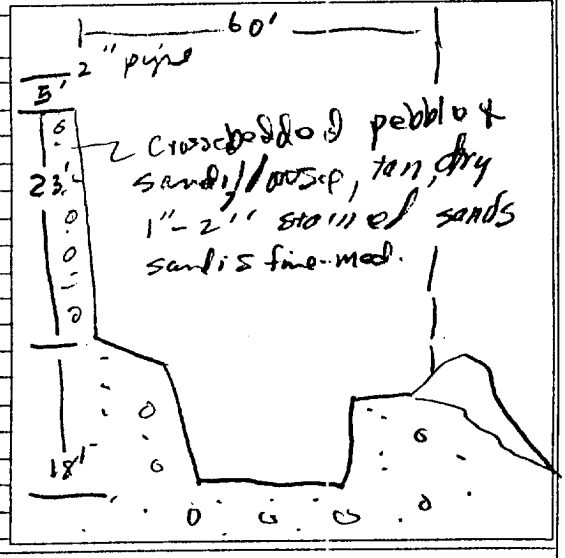
RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① @ 36'	8.0
② @ 40'	2.0
③ @ 40'	98.0
④	
⑤ @ 40'	713

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
NONE		

PIT PROFILE



TRAVEL NOTES: CALLOUT: ONSITE:

CONT.

CLIENT: AMOCO

ENVIROTECH Inc.

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

PIT NO: A0119

C.C.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: _____

PAGE No: 2 of 2

LOCATION: NAME: L.C. Kelly WELL #: 6 PIT: Sep / DRIP

QUAD/UNIT: SEC: TWP: RNG: BM: CNTY: ST:

QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 5/25/93

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: HMB/CJC.

SOIL REMEDIATION: EXCAVATION APPROX. _____ FT. x _____ FT. x _____ FT. DEEP.

DISPOSAL FACILITY: _____ CUBIC YARDAGE: _____

LAND USE: _____ LEASE: _____

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

DEPTH TO GROUNDWATER: _____ NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER: _____

NMOCD RANKING SCORE: _____ NMOCD TPH CLOSURE STD: _____ PPM

SOIL AND EXCAVATION DESCRIPTION:

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
BTM@30'	1070	10.24	20	100	195	38,000
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SCALE

0 FEET

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 BTM@30'	578
2 SW@25'	23.0
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5	
	LAB SAMPLES

PIT PROFILE

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____