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

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

OCT 28 1997

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

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator : Phillips Petroleum Company Telephone: (505) 599-3400

Address: 5525 Hwy. 64, NEBU 3004, Farmington, NM 87401

Facility Or: San Juan 29-6 Unit # 25A
Well Name

Location: Unit or Qtr/Qtr Sec O SWSE Sec 32 T 29N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other Condensate Tank

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

Pit Location: (Attach diagram)
Pit dimensions: Length 27 ft, width 27 ft, depth 5 ft

Reference: wellhead X other _____

Footage from reference: 70 ft

Direction from reference: 85 Degrees _____ East North X of X West South _____

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water)	55 ft	_____	Less than 50 feet	(20 points)
		X	50 ft 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)
		X	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)
		X	Greater than 1000 feet	(0 points) 0

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DIST. 3

P:\pits\PrrC@.WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 11/9/93 Date Completed: 7/8/97

Excavation X Approx. cubic yards 85

Landfarmed X Insitu Bioremediation

Other Risk Assessment

Remediation Method: Onsite X Offsite

(Check all appropriate sections)

General Description of Remedial Action : The site was assessed on 11/9/93. The pit was excavated to bedrock at a depth of 5 feet on 5/20/94 and 5/11/95. A sample was tested and provided concentrations above NMOCD and BLM guidelines. The landfarm was tested on 8/16/95 and was found to be below NMOCD and BLM guidelines. The site was risk assessed on 7/8/97 and based on this information and the physical location of the pit, there is no risk to human health or environment.

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 Approximately 20 feet NW (down gradient) of original pit.

Sample depth 3.5' below ground level

Sample date 7/8/97 Sample time 11:48

Sample Results

Benzene(ppm) ND

Total BTEX (PPM) .0817

Field Headspace (ppm) 120.2

TPH 320

Ground Water Sample: Yes No X (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 8-8-97 PRINTED NAME Bob Wirtanen

SIGNATURE RA Wirta and TITLE Sr. Safety & Environmental Specialist

ENVIROTECH Inc.

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

PIT NO: PA076
C.O.C. NO: ____

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: CASE EXTEND-A-DIG

DATE STARTED: 11-9-93
DATE FINISHED: 11-9-93
ENVIRO. SPCLT: REO
OPERATOR: CIMARRON
ASSISTANT: K.S.

LOCATION: LEASE: San Juan 29-6 WELL: # 25A QD: 1460' FEL, 1150' FSL (O)
SEC: 32 TWP: 29N RNG: 6W PM: NM CNTY: R.A. ST: NM PIT: Sep.

LAND USE: Range - Lease #E-289-36
SURFACE CONDITIONS: Earthen Pit - Fenced 20' x 22' Black surface stain

PIT CENTER IS LOCATED APPROXIMATELY 70 FEET N. 85° W OF WELLHEAD.

CLOSURE STD: 1000 ppm TPH
RANKING SCORE: 10

T1 : Moist-->Wet Clayey silt - Gray - Heavy Odor - Highly Contaminated

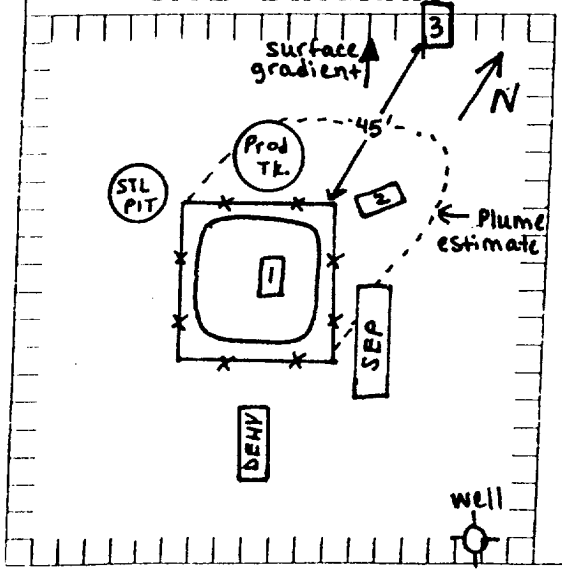
(1412 : Dilute 10:1 = 1178 : 1:100 = 435x2x100=87,000)
(1412 : Dilute 10:1 = 478x2x10 = 9560)
(25 x 2 = 50)

SAMPLE INVENTORY

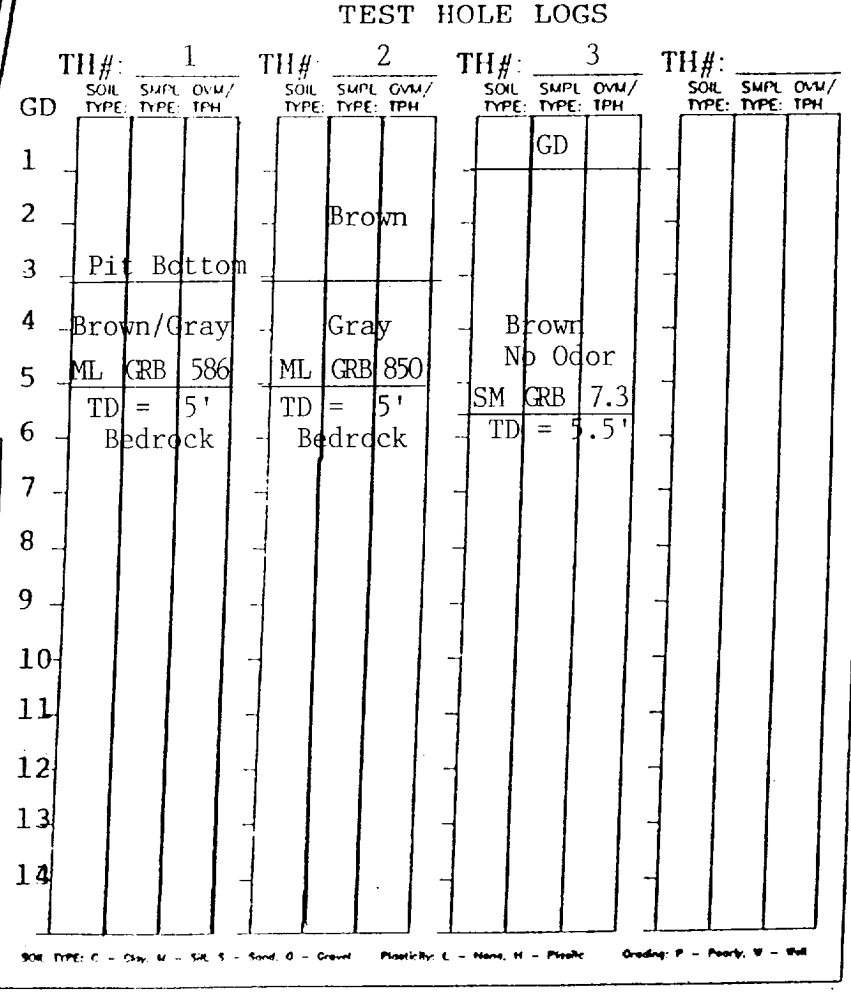
	SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
GAC#0305	T1@ 5'	Soil	87,000ppm
GAC#0306	T2@ 5'	Soil	9,560ppm
GAC#0307	T3@5.5'	Soil	50ppm

SCALE
0 10 20 FEET

SITE DIAGRAM



TEST HOLE LOGS



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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T1 @ 5'	Date Analyzed:	11-09-93
Project Location:	San Juan 29-6, #25A	Date Reported:	11-15-93
Laboratory Number:	GAC0305	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	87,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
1,000	890	12

*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: Separator Pit PA076

R. E. O'Neill
Analyst

Review

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T2 @ 5'	Date Analyzed:	11-09-93
Project Location:	San Juan 29-6, #25A	Date Reported:	11-15-93
Laboratory Number:	GAC0306	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	9,600	100

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
1,000	890	12

*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: Separator Pit PA076

R. E. O'Neill
Analyst

David D. Young
Review

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T3 @ 5.5'	Date Analyzed:	11-09-93
Project Location:	San Juan 29-6, #25A	Date Reported:	11-15-93
Laboratory Number:	GAC0307	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:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
1,000	890	12

*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: Separator Pit PA076

R. E. O'Neil
Analyst

David D Young
Review

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

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

PIT NO: PA076

C.O.C. NO: 3666

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 25A PIT: Sep.

QUAD/UNIT: O SEC: 32 TWP: 29N RNG: 6W BM: NM CNTY: R.A. ST: NM

QTR/FOOTAGE: 1150' FSL, 1460' FEL CONTRACTOR: Cimarron

DATE STARTED: 5/20/94

DATE FINISHED: 5/20/94

ENVIRONMENTAL SPECIALIST: TH

SOIL REMEDIATION: EXCAVATION APPROX. See Diagram FT. x See Diagram FT. x See Diagram FT. DEEP.

DISPOSAL FACILITY: On-site Landfarm CUBIC YARDAGE: _____

LAND USE: Range LEASE: # E-289-36

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 70 FEET N. 85° W. FROM WELLHEAD.

DEPTH TO GROUNDWATER: 55 NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

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

SOIL AND EXCAVATION DESCRIPTION: 0'-4' Red Clay
4'-5' BEDROCK

--Sample T3@4' collected at 13:15 - sent to lab TPH (418.1) & BTEX (8020)

--Excavation is as far north as possible, as far south as possible, and in bedrock

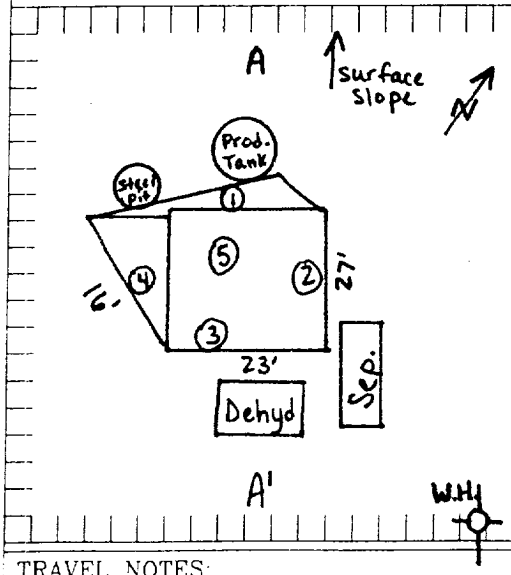
FIELD 418.1 CALCULATIONS

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

SCALE

0 FEET

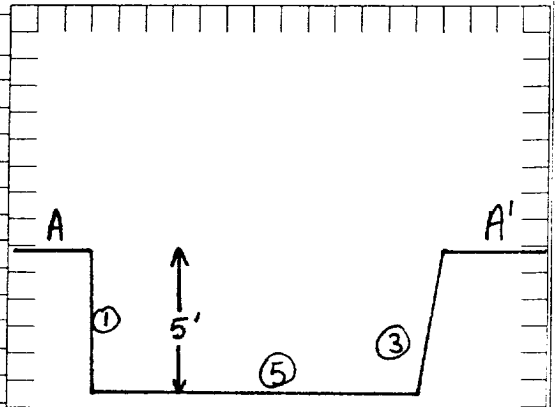
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 T1@4'	773
2 T2@4'	736
3 T3@4'	899
4 T4@4'	347
5 T5@6'	261
	LAB SAMPLES
T3@4'	TPH & BTEX

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: 5/20/94

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips	Project #:	93163
Sample ID:	T3 @ 4'	Date Sampled:	05-20-94
Laboratory Number:	7485	Date Received:	05-23-94
Sample Matrix:	Soil	Date Analyzed:	05-26-94
Preservative:	Cool	Date Reported:	05-26-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	7,700	250

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: San Juan 29-6 #25A Sep Pit PA076

Tony Tristano
Analyst

Review

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T 3 @ 4'	Date Reported:	05-24-94
Laboratory Number:	7485	Date Sampled:	05-20-94
Sample Matrix:	Soil	Date Received:	05-23-94
Preservative:	Cool	Date Extracted:	05-24-94
Condition:	Cool & Intact	Date Analyzed:	05-24-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	900	13.2
Toluene	26,000	26.4
Ethylbenzene	6,300	13.2
p,m-Xylene	48,800	26.4
o-Xylene	29,500	19.8

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	98 %
Bromofluorobenzene	99 %

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: San Juan 29-6 #25A Separator Pit PA076

Analyst

Review

3666
PA076

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Phillips	San Juan 29-6 #25A Sep Pit	
Sampler: (Signature)	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (418.1)	BTEX (8020)					Remarks
130.4'	5/20/94	13:15	7485	Soil	1	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tom Hann	5/23/94	7:25	Tony Tinsley	5/23/94	72
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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(505) 632-0615

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PIT No: PA076
C.O.C #: ———

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 # 25A
SOURCE LOCATION: ———
SOURCE LOCATION: ———
SOURCE LOCATION: ———
FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

DATE STARTED: 9/19/94
DATE FINISHED: 9/19/94

ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 132 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 87' x 41' x 1'
VISIBLE OBSERVATIONS: Clay and Sand, tan, brown, dry, slight odor
SAMPLING PLAN: 1 5-point composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 30 YARDS SE FROM WELLHEAD.

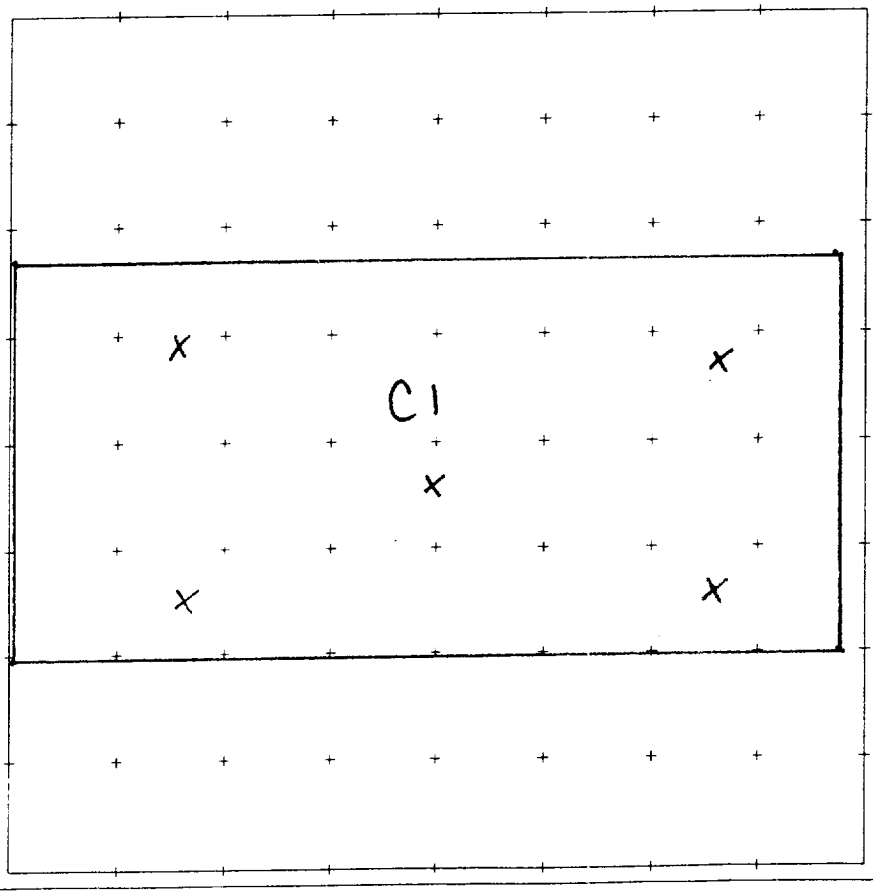
DEPTH TO GROUNDWATER: 55'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 1000 ppm

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

C1 : 104 x 20 = 2080 ppm TPH

FACILITY DIAGRAM

GRID SCALE: 1" = 20'



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	18

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	TPH	2080
GAC	#768	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C1	Date Analyzed:	9-19-94
Project Location:	San Juan 29-6 # 25A	Date Reported:	9-26-94
Laboratory Number:	GAC0768	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,080	100

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
126	142	12

*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: Separator Pit PA076

Analyst

Review

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

PIT No: PA076
C.O.C #: 4150

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 # 25A
SOURCE LOCATION: Sec. 32 Rio Arriba Co. NM
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

DATE STARTED: 4-6-95
DATE FINISHED: 4-6-95

ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 97.5 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 45' x 78' x 0.75'
VISIBLE OBSERVATIONS:
SAMPLING PLAN: 1 5-point composite

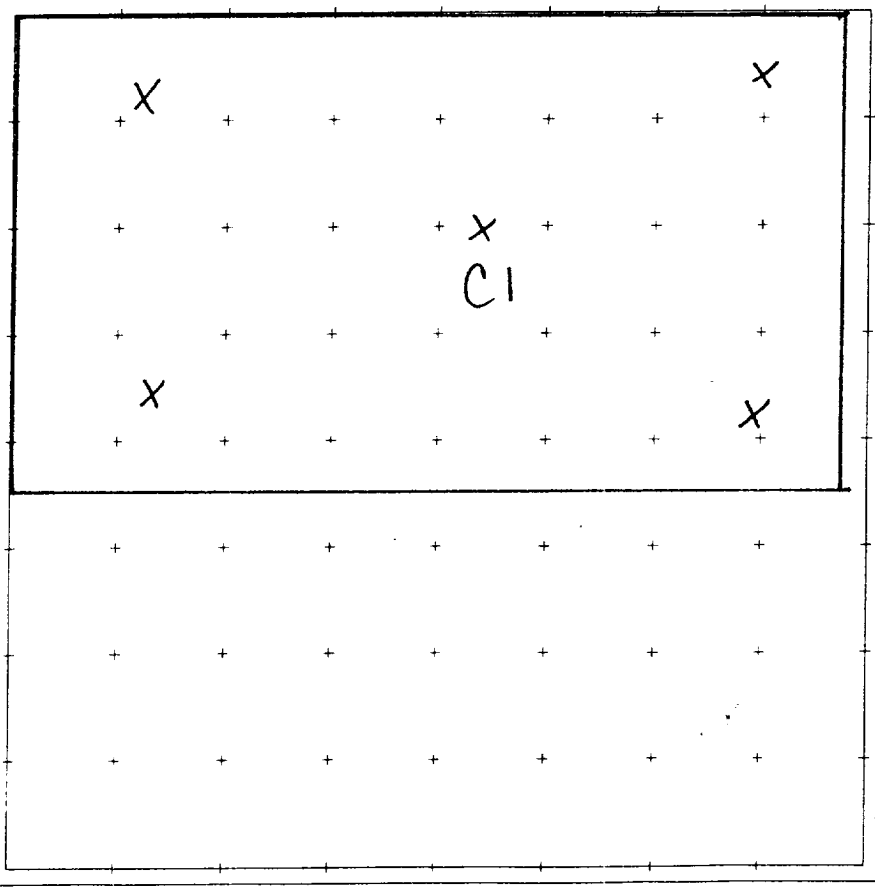
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 30 YARDS SE FROM WELLHEAD.

DEPTH TO GROUNDWATER: 55'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 1000 ppm

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

FACILITY DIAGRAM

GRID SCALE: 10'



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	12.0

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
C1	TPH	1080

4 NORTH

4 WELLHEAD

4 SURFACE FLOW DIR.

4 ESTIMATED GROUNDWATER FLOW DIR.

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips	Project #:	93163
Sample ID:	29-6 #25A	Date Reported:	04-13-95
Laboratory Number:	8339	Date Sampled:	04-06-95
Chain of Custody No:	4150	Date Received:	04-06-95
Sample Matrix:	Soil	Date Extracted:	04-12-95
Preservative:	Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1080	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:

Analyst

Review

4150

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Phillips / 93163		
Sampler: (Signature) C. Jack Collins	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 418.1	BTEX					Remarks
29-5 #59	4-6-95	1498	8332	Soil	1	X						
29-5 #9-26	" "	1537	8333		1	X						
29-5 #91	" "	1611	8334		2	X	X					
29-6 #58A	" "	1126	8335		1	X						
29-5 # 41	" "	1421	8336		1	X						
29-5 # 58	" "	1342	8337		1	X						
29-6 # 100	" "	1312	8338		1	X						
29-6 # 25A	" "	1224	8339		1	X						
29-5 # 55A	" "	1024	8340		1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
C. Jack Collins	4-6-95	1741	Natha Spence	4-6-95	1741
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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PIT No: PA076
C.O.C #: ---

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 #25A
SOURCE LOCATION:
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

DATE STARTED: 5-10-95
DATE FINISHED: 5-10-95

ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 42 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 33' x 69' x .5'
VISIBLE OBSERVATIONS:
SAMPLING PLAN: 1 5-point composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 30 YARDS SE FROM WELLHEAD.

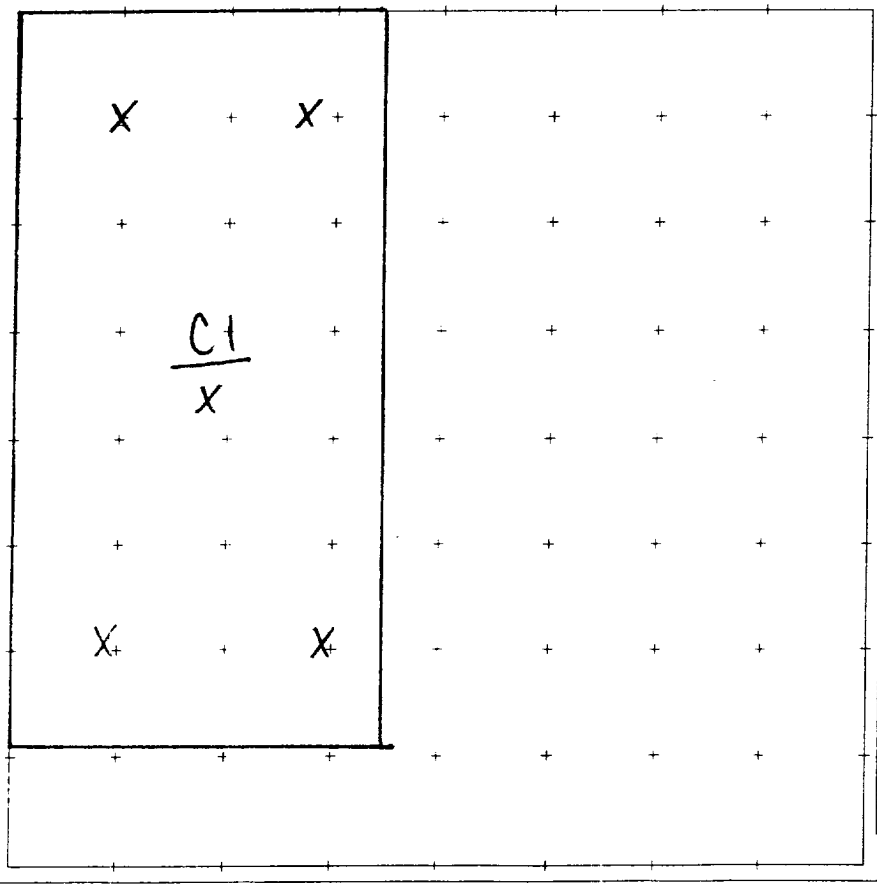
DEPTH TO GROUNDWATER: 55'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 1000 ppm

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
1000=5

GAC#1055 C1 : $\frac{20}{10.26}$ x 10 x 140 = 2730

FACILITY DIAGRAM

GRID SCALE: 10'



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	6.0

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS: PPM:
C1	TPH	2730

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	C1	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1055	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,700	100

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

Review

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CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

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(505) 632-0615

PIT NO: PA076

C.O.C. NO: ——

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 25A PIT: Sep
QUAD/UNIT: O SEC: 32 TWP: 29N RNG: 6W BM: NM CNTY:R.A.ST:NM
QTR/FOOTAGE: 1150' FSL & 1460' FEL CONTRACTOR:

DATE STARTED: 5-11-95
DATE FINISHED: 5-11-95
ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: EXCAVATION APPROX. 27 FT. x 27 FT. x 5 FT. DEEP.
DISPOSAL FACILITY: On-Site Landfarm CUBIC YARDAGE: 135
LAND USE: Range LEASE: # E-289-36

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 70 FEET N. 85° W. FROM WELLHEAD.
DEPTH TO GROUNDWATER: 55' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

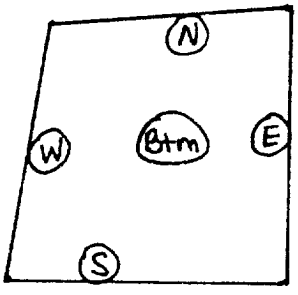
SOIL AND EXCAVATION DESCRIPTION:

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
WW @ 4'	1056	10.68	20.0	100	80	15,000
NW @ 5'	1057	10.51	20.0	100	117	22,300
Btm @ 5'	1058	10.50	20.0	100	64	12,200
EW @ 5'	1059	10.23	20.0	100	81	15,800
SW @ 5'	1060	10.73	20.0	100	95	17,700

SCALE
0 20 FEET

PIT PERIMETER

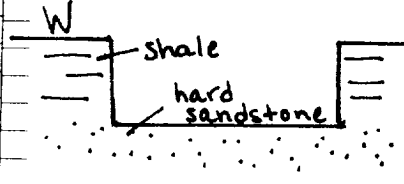


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 WW@ 4'	1016
2 NW@ 4'	1243
3 Btm@4'	285.5
4 EW@ 4'	1045
5 SW@ 4'	1367

LAB SAMPLES
NONE

PIT PROFILE



TRAVEL NOTES: CALLOUT: ONSITE:

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	W. Wall @ 4'	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1056	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	15,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	N. Wall @ 5'	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1057	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	22,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	Bottom @ 5'	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1058	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	12,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	E. Wall @ 5'	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1059	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	16,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	PHILLIPS PETROLEUM	Project #:	93163
Sample ID:	S. Wall @ 5'	Date Analyzed:	05/11/95
Project Location:	San Juan 29-6, #25A	Date Reported:	05/18/95
Laboratory Number:	GAC1060	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	18,000	1,000

ND = Not Detectable at stated detection limits.

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.*
	10	13	26

*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 # PA076

Analyst

Review

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ENVIROTECH Inc.

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(505) 632-0615

PIT No PA076
C.O.C # 4342

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 #25A Sec. 32 T29N R6W R.A. Co. NM
SOURCE LOCATION:
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: On-site landfarm PIT TYPE: Separator

DATE STARTED: 8-16-95
DATE FINISHED: 8-16-95

ENVIRONMENTAL SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: ± 83 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 87' x 39' x .75'
VISIBLE OBSERVATIONS: Soil loose well tilled surface to 3" below surface then hard
SAMPLING PLAN: 1 5-point composite @ 4"-6" below surface

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 30 YARDS SE FROM WELLHEAD.

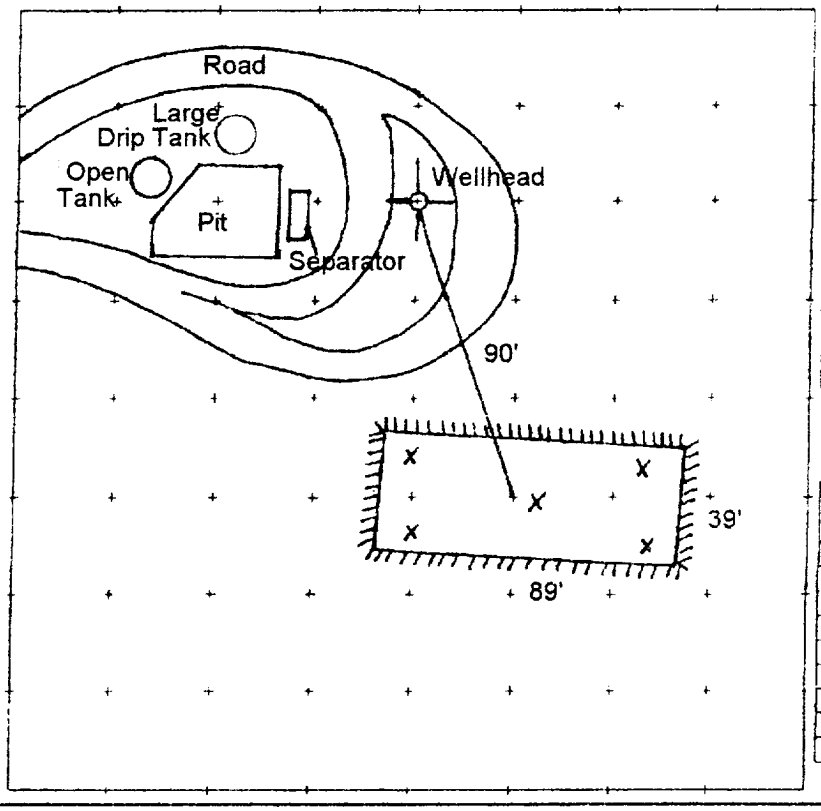
DEPTH TO GROUNDWATER: 55'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 1000 ppm

Poorly unduated sandstone in silty clay matrix; soil dry to 3", thereafter moist. Very faint petroleum odor

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
C1	4.7

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
C1	TPH	288

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	San Juan 29-6 #25 A MV C1	Date Reported:	08-18-95
Laboratory Number:	8801	Date Sampled:	08-16-95
Chain of Custody No:	4342	Date Received:	08-16-95
Sample Matrix:	Soil	Date Extracted:	08-17-95
Preservative:	Cool	Date Analyzed:	08-18-95
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**288**	**10**

ND = Parameter not detected at the stated detection limit.

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

Comments: **PA076. Various Landfarms.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
PHILLIPS Petroleum 93163	Various Landfarms
Sampler: (Signature) Harlan McBroom	Chain of Custody Tape No.

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	418.1 TPH						Remarks
C1 San Juan 29-6#25A MV	8-16-95	11:34	8801	Soil	1	✓						
C1 San Juan 29-6#100 DK	8-16-95	12:37	8802	Soil	1	✓						
C1 San Juan 29-6#48 MV	8-16-95	13:42	8803	Soil	1	✓						IF TPH >100ppm. THEN 8020 BTEX
C2 San Juan 29-6#48 MV	8-16-95	13:59	8804	Soil	1	✓						IF TPH >100ppm THEN 8020 BTEX
C3 San Juan 29-6#48 MV	8-16-95	14:15	8805	Soil	1	✓						IF TPH >100 ppm THEN 8020 BTEX
C1 San Juan 32-7#46 F/PC	8-16-95	16:19	8806	Soil	1	✓						
San Juan 32-7#80 PC	8-16-95	16:55	8807	Soil	1	✓						
Stewart A Com B#3	8-16-95	18:46	8808	Soil	1	✓						

ANALYSIS/PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan McBroom	8.16.95	19:35	Walter Spencer	8-16-95	1935
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

san juan repro Form 678-81

Risk Assessment
San Juan 29-6 #25A

Depth to Groundwater	55'
Distance to Water Source	>1000'
Distance to Surface Water	>1000'
TPH Limit (ppm)	1000

The subject pit was located in sandy/clay/silt soil. The initial size of the pit was 20' x 22' x 3' deep. The stained soil was excavated to a final size of 27' x 27' x 5' deep. Excavated soil amounted to approximately 85 total cubic yards, and was landfarmed on location.

The excavation was assessed by Envirotech on 11/9/93. Three test holes were utilized for assessment. Test hole # 1 was established in the deepest part of the pit with a total depth of 5 feet, where bedrock was encountered. Headspace analysis of the test hole # 1 at 5 feet revealed a concentration above NMOCD closure guidelines. Test hole # 2 was established approximately 15 feet north of the pit to a total depth of 5 feet where bedrock was encountered. Sampling of test hole # 2 at 5 feet also revealed concentrations above NMOCD guidelines. Test hole # 3 was established approximately 45 feet north of the pit at a total depth of 5.5 feet where bedrock was encountered. Sampling of test hole # 3 at 5.5 feet revealed an OVM reading of 7.3 parts per million (ppm) and a TPH concentration of 50 ppm. Excavation of the walls and bottom was performed on 5/20/94. The excavation proceeded to an average depth of 5 feet. The excavated pit was tested on 5/11/95 and the samples revealed concentrations above NMOCD and BLM guidelines. The landfarm was tested by Envirotech on 8/16/95 and was found to be within closure standards (TPH = 288 ppm and an OVM reading of 4.7 ppm).

On July 8, 1997, Cimarron Oilfield Services bore seven test holes for risk assessment analysis. The bore holes were established approximately 20 to 50 feet from the excavation, to depths ranging from 3.5 to 5 feet. Bedrock was encountered at each bore hole. Differences in depth to bedrock were due to the contour of the location and not the gradient of the bedrock. A sample was retrieved from the bottom of each bore hole and headspace analysis was performed. Headspace analysis (OVM) concentrations ranged from 120 ppm to 0 ppm. Bore hole # 4 at 3.5 feet was re-sampled and delivered to Inter-Mountain Laboratories for TPH analysis, utilizing EPA Method 8015, and BTEX analysis, utilizing EPA Method 8020. Results of the analysis determined a TPH concentration of 320 ppm, a non-detect concentration of Benzene, and a Total BTEX concentration of .0817 ppm. Bore hole # 7 at 4 feet was also re-sampled and delivered to Inter-Mountain Laboratories for TPH analysis, utilizing EPA method 8015. Results of the analysis determined a TPH concentration of 11 ppm. No groundwater was encountered, and first water was not recorded on the nearby cathodic well until a depth of 40 feet. The bore holes were backfilled with well cuttings.

Having achieved action levels below NMOCD requirements, this pit should be considered to have reached "final closure". Phillips Petroleum has removed and remediated all soils to the extent practical. By filling the excavation, the driving force created by additional fluids will be eliminated. Based on this information and the physical location of the pit, there is little to no risk to human health or environment.

Client : Phillips Petroleum Company

Date Started : 8 July 1997 Date Completed : 8 July 1997

Location : San Juan 29-6 Unit No. 25A

Quad : O Section : 32

Township: 29 N Range: 6 W

Pit :	Sample #	Location	OVM	TPH
Sep./Dehy.	1	BH#1@4'	0	
	2	BH#2@4'	2.1	
Reference :	3	BH#3@5'	0	
70' N 85 W	4	BH#4@3.5'	120.2	
	5	BH#5@3.5'	16.4	
From Wellhead	6	BH#6@3.5'	0	
	7	BH#7@4'	0	
	8			
Pit Size :	9			
20' x 20' x 3' deep	10			
	11			
	12			

Depth to Groundwater : 55'

Soil Type : *Sand/clay/silt.*

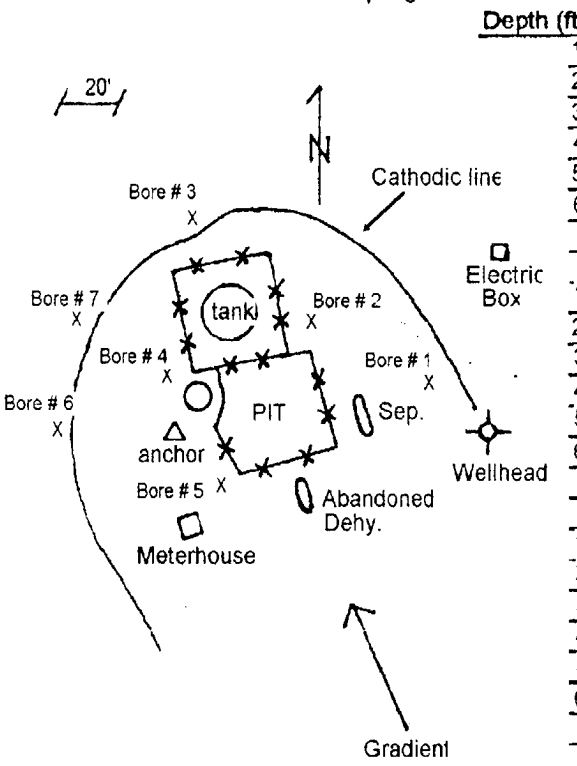
Ranking Score: 10

Bedrock Encountered : 3.5' - 5'

Closure Standard : 1000 ppm

Groundwater Encountered : None

Overview of Pit Location and Sampling :



Depth (ft)	Bore # 1	Bore # 2	Bore # 7
1	slightly moist brown sand/clay silt sample # 1	slightly moist brown sand/clay silt sample # 2	moist brown sand/clay silt sample # 7
2			
3			
4			
5	Bedrock	Bedrock	Bedrock
6			

	Bore # 3	Bore # 4
1	slightly moist brown sand/clay silt	moist light brown sand/clay/silt sample # 4
2		
3		
4	sample # 3	Bedrock
5		
6	Bedrock	

	Bore # 5	Bore # 6
1	moist, brown sand/clay/silt gr. sandstone sample # 5	moist, brown sand/clay/silt sample # 6
2		
3		
4	Bedrock	Bedrock
5		
6		

Comments :

Bore Hole # 1 - Soil is moist, brown, sand/clay/silt. No staining or odor.

Bore Hole # 2 - Soil is moist, dark brown, sand/clay/silt. No odor or staining.

Bore Hole # 3 - Soil is moist, brown, sand/clay/silt. No odor or staining.

Bore Hole # 4 - Soil is moist, light brown, sand/clay/silt. No odor or staining.

Bore Hole # 5 - Brown, moist, sand/clay/silt. Soft gray sandstone @ 2'. No odor.

Bore Hole # 6 - Soil is moist, brown, sand/clay/silt. No odor or staining.

Bore Hole # 7 - Soil is moist, brown, sand/clay/silt. No odor or staining.

Sample # 4 sent to IML laboratory for TPH 8015 and BTEX 8020.

Sample # 7 sent to IML laboratory for TPH 8015.

Environmental Specialist: VEC

Inter·Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

CASE NARRATIVE

Client: PHILLIPS PETROLEUM COMPANY
Project: SJ 29-6 #25A, Sep. Pit Received on: 07/09/97
Set ID: 0597H03632 # samples: 2

Suites: TPH (DRO), TPH (GRO)

Samples were received for analysis at Inter-Mountain Laboratories (IML), Bozeman, Montana. Enclosed are the results of these analyses.

Limits of detection for each instrument/analysis are determined by sample matrix effects, instrument performance under standard conditions, and dilution requirements to maintain chromatography output within calibration ranges. Quantitations have been calculated on an as received basis.

Quality Control reports have been included for your information and use. These reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please contact me at (800) 828-1413.

Wes Harvey
IML-Bozeman

Inter·Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

DIESEL RANGE ORGANICS - DRO

Client: **PHILLIPS PETROLEUM COMPANY**
Sample ID: Bore Hole #4 @ 3.5 ft.
Project ID: SJ 29-6 #25A, Sep. Pit
Lab ID: B973632 0397G01353
Matrix: Soil

Date Reported: 07/28/97
Date Sampled: 07/08/97
Date Received: 07/09/97
Date Extracted: 07/21/97
Date Analyzed: 07/24/97

Parameter	Result	PQL	Units
Diesel Range Organics	180	5.0	mg/kg
Diesel Range Organics as Diesel	180	5.0	mg/kg
Total Extractable Hydrocarbons	280	5.0	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 3, 05/08/92.
WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Analyst WH **Reviewed**

Inter·Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

GASOLINE RANGE ORGANICS - GRO

Client: **PHILLIPS PETROLEUM COMPANY**
Sample ID: Bore Hole #4 @ 3.5 ft.
Project ID: SJ 29-6 #25A, Sep. Pit
Lab ID: B973632 0397G01353
Matrix: Soil

Date Reported: 07/21/97
Date Sampled: 07/08/97
Date Received: 07/09/97
Date Extracted: 07/17/97
Date Analyzed: 07/18/97

Parameter	Result	PQL	Units
Gasoline Range Organics	7.0	5.0	mg/kg
Gasoline Range Organics as Gasoline	7.0	5.0	mg/kg
Total Purgeable Hydrocarbons	40	5.0	mg/kg
QUALITY CONTROL - Surrogate Recovery	%	**QC Limits**	
Bromofluorobenzene	125	40 - 163	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Rev. 5, February 1992. WTPH-G Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 6, 08/18/93.

Analyst SD **Reviewed**

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

PHILLIPS PETROLEUM

Project ID:	SJ 29-6 #25A, Sep. Pit	Report Date:	07/23/97
Sample ID:	Bore Hole #4 @ 3.5 ft.	Date Sampled:	07/08/97
Lab ID:	0397G01353	Time Sampled:	11:48am
Sample Matrix:	Soil	Date Received:	07/08/97
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	07/16/97

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	29.8	10.0
m,p-Xylenes	19.7	10.0
o-Xylene	32.2	10.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	139%*	70%-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments: *Surrogate did not recover due to matrix interferences.

Analyst

Review

Inter·Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

DIESEL RANGE ORGANICS - DRO

Client: **PHILLIPS PETROLEUM COMPANY**
Sample ID: Bore Hole #7 @ 4 ft.
Project ID: SJ 29-6 #25A, Sep. Pit
Lab ID: B973633 0397G01354
Matrix: Soil

Date Reported: 07/28/97
Date Sampled: 07/08/97
Date Received: 07/09/97
Date Extracted: 07/21/97
Date Analyzed: 07/24/97

Parameter	Result	PQL	Units
Diesel Range Organics	ND	5.0	mg/kg
Diesel Range Organics as Diesel	6.4	5.0	mg/kg
Total Extractable Hydrocarbons	11	5.0	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 3, 05/08/92.
WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Analyst _____ **Reviewed** _____

Inter·Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

GASOLINE RANGE ORGANICS - GRO

Client: **PHILLIPS PETROLEUM COMPANY**
Sample ID: Bore Hole #7 @ 4 ft.
Project ID: SJ 29-6 #25A, Sep. Pit
Lab ID: B973633 0397G01354
Matrix: Soil

Date Reported: 07/21/97
Date Sampled: 07/08/97
Date Received: 07/09/97
Date Extracted: 07/17/97
Date Analyzed: 07/18/97

Parameter	Result	PQL	Units
Gasoline Range Organics	ND	5.0	mg/kg
Gasoline Range Organics as Gasoline	ND	5.0	mg/kg
Total Purgeable Hydrocarbons	ND	5.0	mg/kg

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
Bromofluorobenzene	105	40 - 163

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Rev. 5, February 1992.
WTPH-G Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 6, 08/18/93.

Analyst SD **Reviewed**

imL
Inter- Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
Phillips Bloomfield	San Juan Co. NM	
Sampler: (Signature)	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers					Remarks
Blue Hole #1										
@ 5:42	7/2/97	11:48		Soil	1	X				
Blue Hole #2										
@ 4'	7/2/97	13:48		Soil	1	X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/8/97	9:35	[signature]		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time

Inter-Mountain Laboratories, Inc.

❒ 1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

❒ 1701 Phillips Circle
Gillette, Wyoming 82716
Telephone (307) 682-8945

❒ 2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

❒ 1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

❒ Route 3, Box 256
College Station, TX 77845
Telephone (409) 776-8945

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