District I
P.O. Box 1980, Hobbs, NM
District II
811 South First, Artesia, NM 88211
District III
1000 Rio Brazos Rd., Aztec, NM 87410

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR
AUG 25 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

Approved

PIT REMEDIATION AND CLOSURE REPORT

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

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

Facility Or: San Juan 29 - 6 Unit # 58 A
Well Name

Location: Unit or Qtr/Qtr Sec D NWNW Sec 28 T 29N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other Condensate Tank

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

Pit Location: (Attach diagram)
Pit dimensions: Length 56 ft, width 28 ft, depth 3 ft
Reference-. wellhead X other _____
Footage from reference: 45 ft
Direction from reference: 45 Degrees X East North X
of
_____ West South _____

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water) 40 ft	X	Less than 50 feet	(20 points)	
	_____	50 ft to 99 feet	(10 points)	
	_____	Greater than 100 feet	(0 points)	20
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): 20

Date Remediation Started: 7/09/93 Dated Completed: 6/2/97

Excavation X Approx. cubic yards 119

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 7/09/93 and 5/17/94. The pit was excavated on 8/10/94 and tested below NMOCD and BLM guidelines. The landfarm was determined to be within guidelines on 4/06/94. The site was risk assessed on 6/2/97 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 10 feet east (down gradient) of original pit.

Sample depth 13' - 15' below ground level

Sample date 6/2/97 Sample time 14:10

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 0.0

TPH Non-Detect

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 6-20-97 PRINTED NAME Bob Wirtanen

SIGNATURE RA Wirtanen and TITLE Sr. Safety & Environmental Specialist

ENVIROTECH Inc.

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

PIT NO: PA035
C.O.C. NO: 2802

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: JOB EXTENDAHOE

DATE STARTED: 7-9-93
DATE FINISHED: 5-17-94
ENVIRO. SPCLT: JCB/REO
OPERATOR: Cimarron
ASSISTANT: ——

LOCATION: LEASE: SJ 29-6 WELL: 58-A QD: 1150' FNL & 870' FWL (D)
SEC: 28 TWP: 29N RNG: 6W PM: NM CNTY: R.A. ST: NM PIT: Separator

LAND USE: Range Land Lease NM-03471
SURFACE CONDITIONS: Dry

PIT CENTER IS LOCATED APPROXIMATELY 60 FEET N 45°E OF WELLHEAD.

CLOSURE STD: 100 ppm TPH
RANKING SCORE: 20

Pit is 56' x 28' Dimension
3' Deep

Sample
7' Strong Odor, V. Dark color, clay
12' clay - No odor, brown green color
Sample for lab 418.1 @ 0938 7-9-93

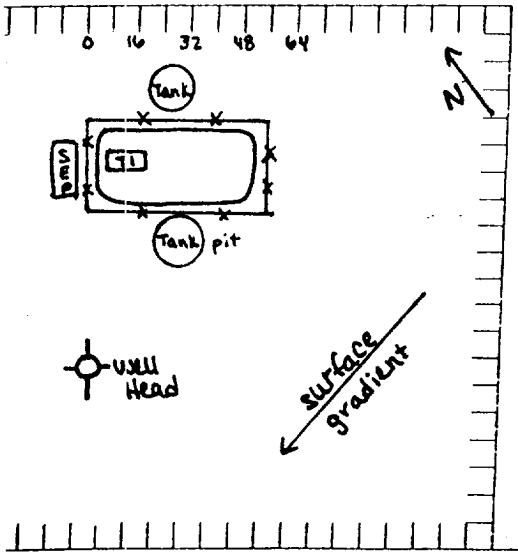
GAC#504 : 18 x 2 = 36
Recommend Excavate top 2' of soil and landfarm

SAMPLE INVENTORY

	SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:	
7/9/93	T1@12'	GRB	418.1	OK
5/17/94	T1@ 6'	Soil	36ppm	

SCALE
0 0 16 FEET

SITE DIAGRAM



TEST HOLE LOGS

GD	TH#: 1 SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#: SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#: SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#: SOIL TYPE:	SMPL TYPE:	OVM/TPH
1												
2												
3	Pit bottom											
4	CL	GRB	596									
5												
6	CL	GRB	9	← 5/17/94								
7	CL	GRB	263									
8												
9												
10												
11												
12	CL	GRB	8.0									
13												
14												

SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips	Project #:	93163
Sample ID:	TH1 @ 12'	Date Sampled:	07-09-93
Laboratory Number:	5658	Date Received:	07-09-93
Sample Matrix:	Soil	Date Analyzed:	07-14-93
Preservative:	Cool	Date Reported:	07-14-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	7.9	5.0

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: San Juan 29-6 Well 58A-Separator, PA035.

Analyst

Review

ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T1 @ 6'	Date Analyzed:	5-17-94
Project Location:	San Juan 29-6 #58A	Date Reported:	5-17-94
Laboratory Number:	GAC0504	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	36	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
11,000	12,600	14

*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 PA035

R. E. O'Neill
Analyst

Review

2802

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS	PA035
Phillips Pit Assessment	San Jan 29-6 well 58A - Separator		

Sampler: (Signature)	Chain of Custody Tape No.
J C Blagg	93163

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	418.1						Remarks
TH 1 @ 12'	7-9-93	0938	5658	Soil	1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	7-9-93	1640	Denise L. Ogleman	7-9-93	1640
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 578-81

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

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

PIT NO: PA035
C.O.C. NO: ____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 58A PIT: Sep.
QUAD/UNIT: D SEC: 28 TWP: 29N RNG: 6W BM: NM CNTY: R.A ST: NM
QTR/FOOTAGE: 1150' FNL, 870' FWL CONTRACTOR: Cimarron

DATE STARTED: 10 AUG. 94
DATE FINISHED: 10 AUG. 94
ENVIRONMENTAL SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 28 FT. x 56 FT. x 8½ FT. DEEP.
DISPOSAL FACILITY: Land Farm - On site CUBIC YARDAGE: ____
LAND USE: Range LEASE: NM 03471

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 60 FEET N45°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: 40' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

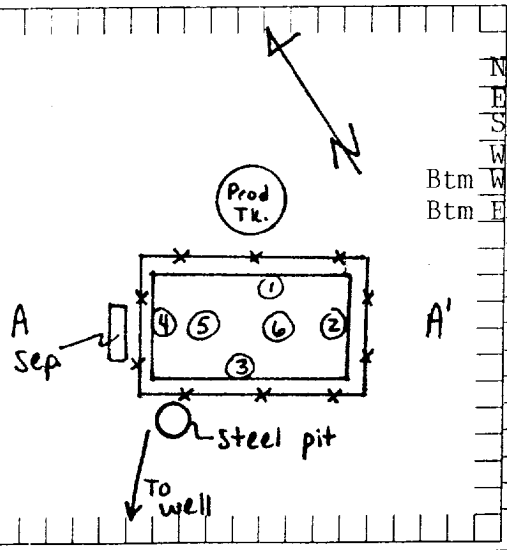
SOIL AND EXCAVATION DESCRIPTION: Soil is brown, slightly moist, clayey sand.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
2 @ 8'	GAC647	10	20	1	34	68

1 cm = 20'
SCALE
0 FEET

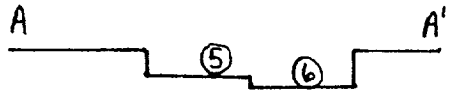
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
N 1 @ 8'	6.2
E 2 @ 8'	96.8
S 3 @ 7'	1.8
W 4 @ 7'	1.4
Btm W 5 @ 8'	1.8
Btm E 6 @ 9'	8.6
	LAB SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: ____ ONSITE: ____

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	2 @ 8'	Date Analyzed:	8-10-94
Project Location:	San Juan 29-6 #58A	Date Reported:	8-10-94
Laboratory Number:	GAC0647	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	68	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
11,000	12,600	14

*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 PA035

Analyst

Review

ENVIROTECH Inc.

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

PIT No: PA035
C.O.C #:

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 # 58A
SOURCE LOCATION:
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

DATE STARTED: 10/4/94
DATE FINISHED: 10/4/94

ENVIRONMENTAL SPECIALIST: CJC/HMB

SOIL REMEDIATION: QUANTITY: 119 cy # OF COMP. SAMPLES: 2
DIMENSIONS: 57'x79'x.5' & 44'x44'x.5'
VISIBLE OBSERVATIONS:
SAMPLING PLAN: 2 5-point composites

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 18 YARDS NW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 40'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 100 ppm

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

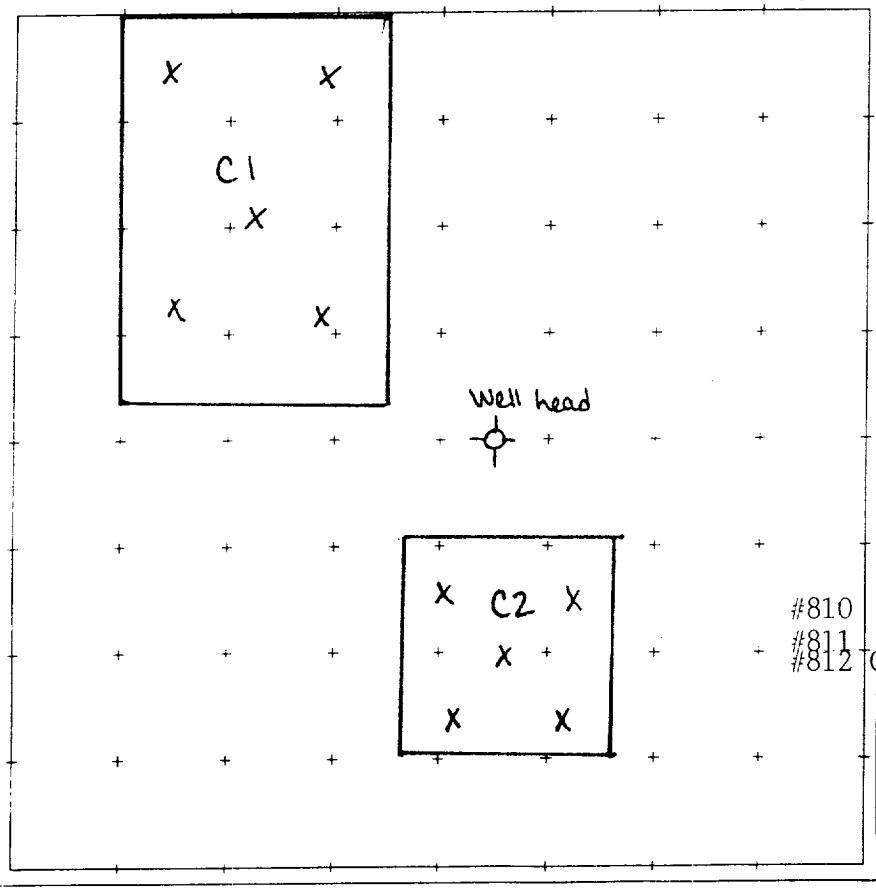
C1 : $\frac{20 \text{ ml}}{10.34 \text{ g}}$ x 1 x 61 = 117.98

C2 : $\frac{20 \text{ ml}}{10.00 \text{ g}}$ x 1 x 35 = 70.00

C1 Dup: $\frac{20 \text{ ml}}{10.35 \text{ g}}$ x 1 x 56 = 108.21

FACILITY DIAGRAM

GRID SCALE: 20'



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	3.0
C2	0.0

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
#810 C1	TPH	118
#811 C2	TPH	70
#812 C1 Dup	TPH	108

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C-1	Date Analyzed:	10-04-94
Project Location:	San Juan 29-6 # 58A	Date Reported:	10-04-94
Laboratory Number:	GAC0810	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	118	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
60	56	7

*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 PA035

C. Jack Collins
Analyst

Review

ENVIROTECH LABS

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C-2	Date Analyzed:	10-04-94
Project Location:	San Juan 29-6 # 58A	Date Reported:	10-04-94
Laboratory Number:	GAC0811	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	70	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
60	56	7

*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 PA035

C. Jack Collins
Analyst

Review

ENVIROTECH Inc.

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

PIT No: PA035
C.O.C #:

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 # 58A
SOURCE LOCATION:
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: 106 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 51' x 75' x .75'
VISIBLE OBSERVATIONS: Dry
SAMPLING PLAN: 1 5-point composite

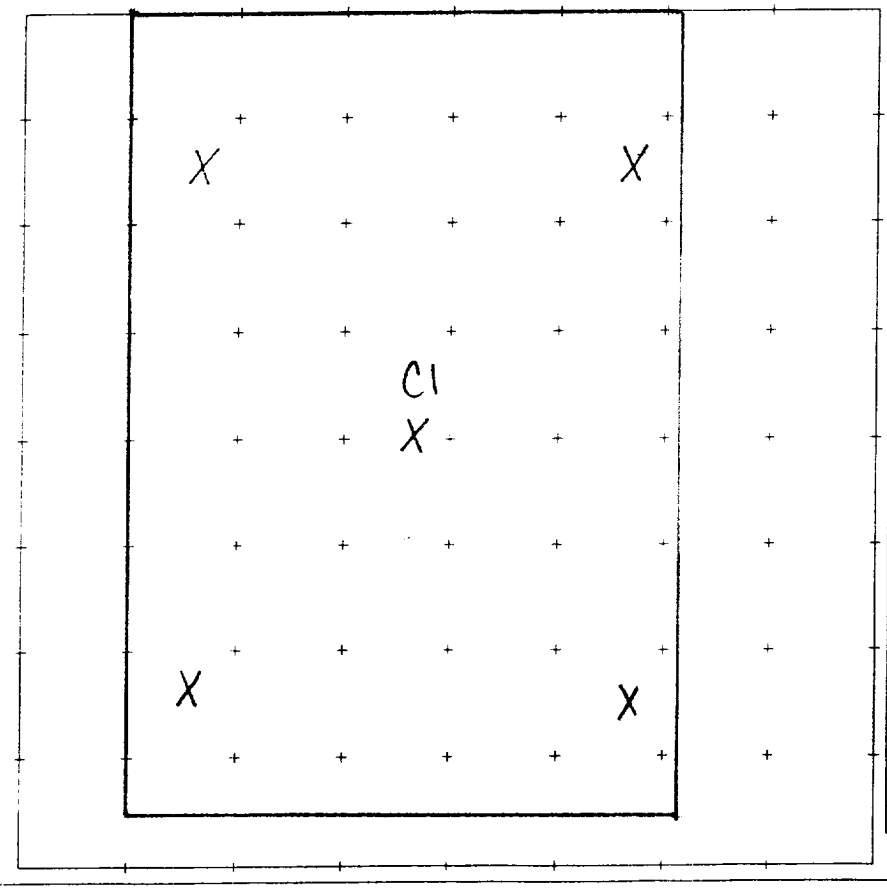
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 16 YARDS NW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 40'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOCD: 100 ppm TPH

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	3.0
North	

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED: 418.1	RESULTS PPM:
C1	TPH	56
North		

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

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

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips	Project #:	93163
Sample ID:	29-6 #58A	Date Reported:	04-13-95
Laboratory Number:	8335	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	55.9	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

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	1448	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)		

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

Risk Assessment
San Juan 29-6 #58A

Depth to Groundwater	40'
Distance to Water Source	>1000'
Distance to Surface Water	>1000'
TPH Limit (ppm)	100

The subject pit was located in clay silt soil. The initial size of the pit was 56'x28'x3' deep. The stained soil was excavated to a final pit size of 56' x 28' x 8.5' deep. Excavated soil amounted to 119 total cubic yards, and was landfarmed on location.

The excavation was assessed by Envirotech on 7/09/93 and 5/17/94. One test hole was utilized for assessment. The test hole was established in the deepest part of the pit with a total depth of 12 feet. Headspace analysis of the test hole at 12 feet revealed a concentration of 8 parts per million (ppm). Excavation of the walls and bottom was performed on 8/10/94. The excavation proceeded to a depth of 8.5 feet with no further excavation of the pit walls. Headspace analysis of the walls and bottom showed OVM levels ranging from 96.8 ppm to 1.4 ppm, and a TPH level of 68 ppm utilizing EPA Method 418.1. The landfarm was tested on 10/4/94 and 4/6/95 by Envirotech and was found to be within closure guidelines (TPH = 56 ppm and an OVM reading of 3.0 ppm).

On June 2, 1997, Cimarron Oilfield Services, utilizing a Geoprobe, bore a test hole for risk assessment analysis. The bore hole was established approximately 10 feet East (down gradient) of the previous pit, to a depth of 15 feet and encountered hard shale. A sample was retrieved from 13 to 15 feet and headspace analysis was performed. Headspace analysis revealed an OVM level of 0.0 ppm. The sample was delivered to Intermountain Laboratories for TPH analysis utilizing EPA Method 418.1. Results of the analysis determined no-detection of petroleum hydrocarbons present in the soil. No groundwater was encountered, and first water was not recorded on the nearby cathodic well until a depth of 40 feet. The bore hole was backfilled with well cuttings and Bentonite.

Having achieved action levels below NMOCD and BLM 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**

Date Started : **2 June 1997** Date Completed : **2 June 1997**

Location : **San Juan 29 - 6 # 58 A**

Quad : **"D"** Section : **28**

Township: **29N** Range: **6 W**

Pit : Separator

Reference 60 feet
N 45 degrees E

From Wellhead

Pit Size :
58' x 26' x 3' deep

Sample #	Location	OVM(ppm)	TPH(ppm)
1	Bh#1@15'	0	ND
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

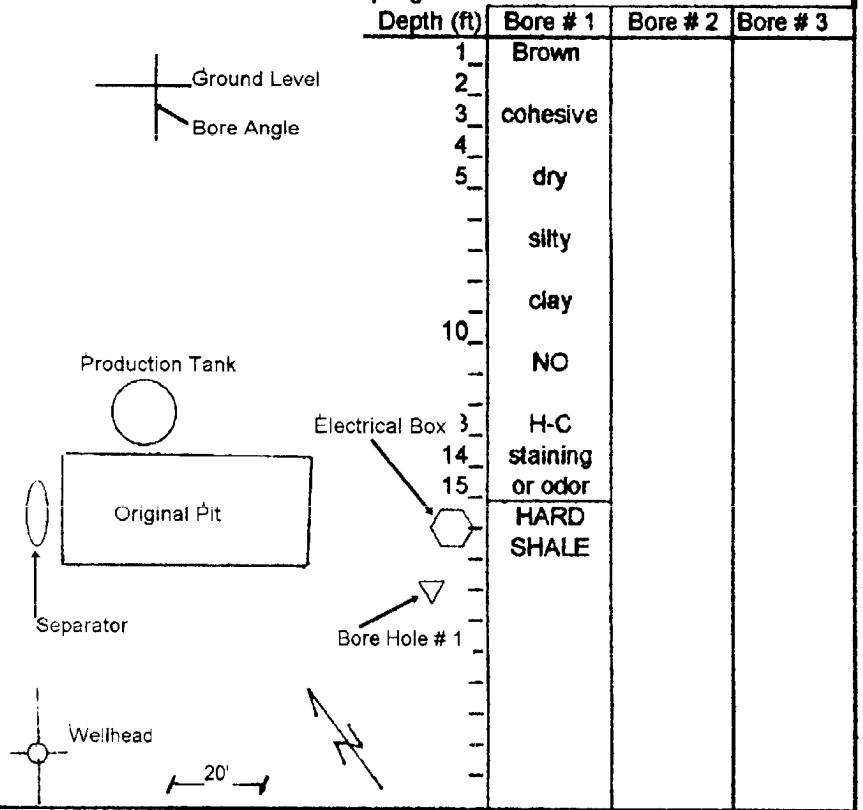
Depth to Groundwater : 40' Soil Type : Clayey Silt, cohesive

Ranking Score: 20

Closure Standard : 100 ppm

Bedrock Encountered :
No - Hard Shale @ 15 feet
Groundwater Encountered :
No

Overview of Pit Location and Sampling :



Depth (ft)	Bore # 1	Bore # 2	Bore # 3
1	Brown		
2			
3	cohesive		
4			
5	dry		
	silty		
	clay		
10			
	NO		
	H-C		
14	staining		
15	or odor		
	HARD SHALE		

Comments : BH #1 0' - 15' - Brown, cohesive, clayey silt, dry, no odor, no staining
Unable to penetrate past 15 feet due to very hard shale.
Sample # 1 sent to IML Labs for TPH Method 418.1 analysis.

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 418.1

Client:	**Phillips Petroleum**	Date Reported:	06/19/97
Project:	SJ 29 6 #58A	Date Sampled:	06/02/97
Matrix:	Soil	Date Received:	06/03/97
Condition.	intact/Cool	Date Extracted:	06/05/97
		Date Analyzed:	06/05/97

Sample ID	Lab ID	Result mg/kg	Detection Limit mg/kg
BH #1 @ 13' - 15 '	0397G00983	ND	20

ND - Analyte not detected at stated detection level.

Method 418.1:

Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978

Method 3550:

Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846. Rev. 1. July 1992.

Reported By _____

Reveiwed By _____

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOTAL PETROLEUM HYDROCARBONS
Quality Assurance/Quality Control

Client:	**Phillips Petroleum**	Date Reported:	06/19/97
Project:	SJ 29-6 #58A	Date Sampled:	06/02/97
Matrix:	Soil	Date Received:	06/03/97
Condition:	Intact/Cool	Date Extracted:	06/05/97
		Date Analyzed:	06/05/97

Duplicate Analysis

Lab ID	Sample Result	Duplicate Result	Units	%Difference
0397G00984	ND	ND	mg/Kg	N/A

Method Blank Analysis

Lab ID	Result	Units	Detection Limit
Method Blank	ND	mg/Kg	20

Spike Analysis

Lab ID	Found Conc. mg/Kg	Sample Conc. mg/Kg	Spike Amount mg/Kg	Percent Recovery	Acceptance Limits
MB	963	ND	1050	92%	70-130%

Known Analysis

Lab ID	Found Conc. mg/Kg	Known Conc. mg/Kg	Percent Recovery	Acceptance Limits
QC	24.2	25.2	96%	70-130%

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of water and waste, 1978.

Method 3550: Ultrasonic extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, rev 1, July 1992.

Reported By: _____ Reviewed By: _____

CHAIN OF CUSTODY RECORD

Inter- Mountain Laboratories, Inc.

Client/Project Name	Project Location	ANALYSES / PARAMETERS
Phillips Petroleum	SJ 29-6 #554	
Sampler: (Signature)	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	TPH 418.1				Remarks
BH#1 @ 13-15'	6/2/97	14:10		Soil	1	X				
										Cont. Contact

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Frank Mitchell	6/3/97	7:07	Dillon Williams	6/3/97	7:07 am
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time

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