Denny A. Foust
DEPUTY OIL & GAS INSPECTOR

JAN 16 1998

District I
P.O. Box 1980, Hobbs, NM 88240
District II
P.O. Drawer DD, Artesia, NM 88210
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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator : Phillips Petroleum Company Telephone: (505) 599-3462

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

Facility Or: San Juan 32 - 7 Unit # 46, PC
Well Name

Location: Unit or Qtr/Qtr Sec NWNE Sec 34 T 32N R 7W County San Juan

Pit Type: Separator X Dehydrator _____ Other _____

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

Pit Location: (Attach diagram) Pit dimensions: Length 36 ft , width 42 ft , depth 7.5 ft (avg)

Reference: wellhead X other _____

Footage from reference: 45 ft

Direction from reference: 78 Degrees _____ East North X of X West South _____

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water)	180 ft	Less than 50 feet (20 points) 50 ft 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.)	X	____ 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.)	X	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0

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RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 7/8/94 Dated Completed: 9/21/94

Excavation X Approx. cubic yards 450

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____

(Check all appropriate sections)

General Description of Remedial Action- The pit was assessed on 7/8/94. The pit was excavated to a pit size of 36 ft X 42 ft X 7.5 ft (avg) in depth. The pit was excavated to bedrock. The excavated pit was sampled for closure purposes and was determined that the walls and bottom were within NMOCD and BLM guidelines. The landfarm was determined to be within guidelines on 9/21/94. 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 (attach sample results and diagram of sample locations and depths)

Sample location See pit closure verification field report form

Sample depth 7 ' below ground level (sample #5)

Sample date 8/8/94 Sample time 15:00

Sample Results

Benzene(ppm) Non-Detect

Total BTEX (PPM) 0.045

Field Headspace (ppm) 466 (sample #5)

TPH 68 (sample #5)

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 _____ PRINTED NAME Bob Wirtanen

SIGNATURE _____ and TITLE Sr. Safety & Environmental Specialist

ENVIROTECH Inc.

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

PIT NO: PA 216
C.O.C. NO: 3674

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: Phillips Petroleum
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED:

DATE STARTED:
DATE FINISHED: 7/8/94
ENVIRO. SPCLT: CLG
OPERATOR: Cimarron
ASSISTANT:

LOCATION LEASE: San Juan 32-7 WELL: 46 PC QD: 1080' FNL & 1540' FEL (B)
SEC: 34 TWP: 32N RNG: 7W PM: NM CNTY: SJ ST: NM PIT: Separator

LAND USE: Range - Lease : SF-078542
SURFACE CONDITIONS: Dry Earthen Pit - No Staining

PIT CENTER IS LOCATED APPROXIMATELY 45 FEET N78W OF WELLHEAD.

CLOSURE STD: 5000 ppm * Note: Distance to Groundwater is 180 feet.

RANKING SCORE: 0

T1 : Top 6 inches is light brown and grades to gray shaley sand, slightly moist, compact (nearing rock), odor

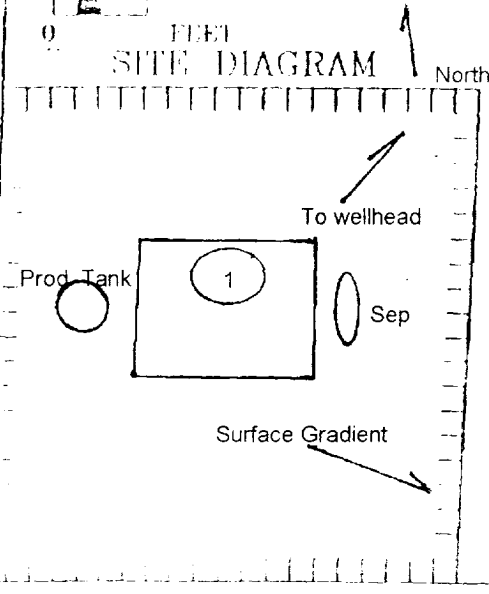
T1@ 7 ft : 1075 X 2 : dilute : 143 X 2 X 10 = 2860 ppm ; TPH

SAMPLE INVENTORY

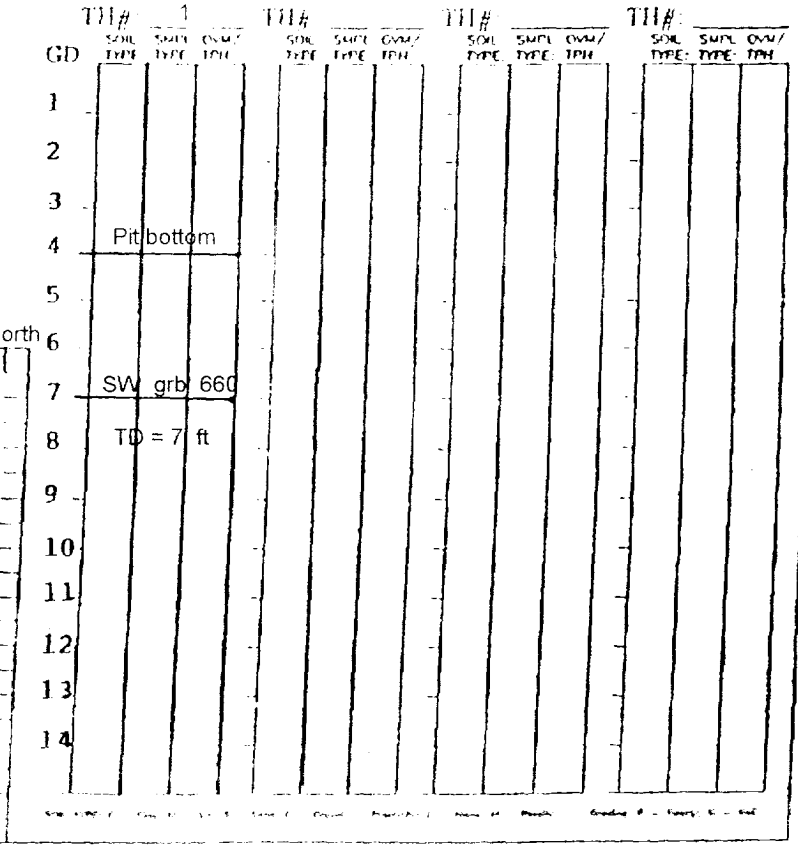
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
T1@ 7'	soil	418.1
T1@ 7'	soil	BTEX

SCALE
0 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 @ 7'	Date Analyzed:	7-8-94
Project Location:	San Juan 32-7 #46 PC	Date Reported:	7-8-94
Laboratory Number:	GAC0600	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,860	100

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/Production Pit PA216

Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T1 @ 7'	Date Reported:	07-15-94
Laboratory Number:	7707	Date Sampled:	07-08-94
Sample Matrix:	Soil	Date Received:	07-08-94
Preservative:	Cool	Date Extracted:	07-08-94
Condition:	Cool & Intact	Date Analyzed:	07-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5700	27.0
Toluene	82100	33.8
Ethylbenzene	16700	20.3
p,m-Xylene	51000	27.0
o-Xylene	50100	20.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromofluorobenzene	117 %

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 32-7 #46pc Sep/Prod Pit PA216

Analyst

Review

3674

PA216

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Phillips 93163	San Juan 32-7 #46PC	
Sampler: (Signature) CL Gunther	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
T1 @ 7'	7/8/94	955	7707	Soil	1	✓						sep./prod. pit

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
CL Gunther	7/8/94	1510	Karen Young	7-8-94	1510
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

CLIENT: Phillips Petroleum

ENVIROTECH Inc.

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

PIT NO: PA 216

C.O.C. NO: 3861

FIELD REPORT: CLOSURE VERIFICATION

JOB No: _____
PAGE No: ___ of ___

LOCATION: NAME: San Juan 32-7 WELL #: 46 PC PIT: Separator
QUAD/UNIT: B SEC: 34 TWP: 32N RNG: 7W BM: NM CNTY: SJ ST:
QTR/FOOTAGE: 1080' FNL & 1540' FEL CONTRACTOR: Cimarron

DATE STARTED: _____
DATE FINISHED: 8/8/94
ENVIRONMENTAL SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 36 FT. x 42 FT. x 7.5 (avg) FT. DEEP.
DISPOSAL FACILITY: Landfarm - On-Site CUBIC YARDAGE: 420
LAND USE: Range LEASE: SF-078542

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 45 FEET N78W FROM WELLHEAD.
DEPTH TO GROUNDWATER: 180 ft NEAREST WATER SOURCE: >1000 ft NEAREST SURFACE WATER: >1000 ft
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

Soil is gray, silty sand to clayey sand, slightly moist

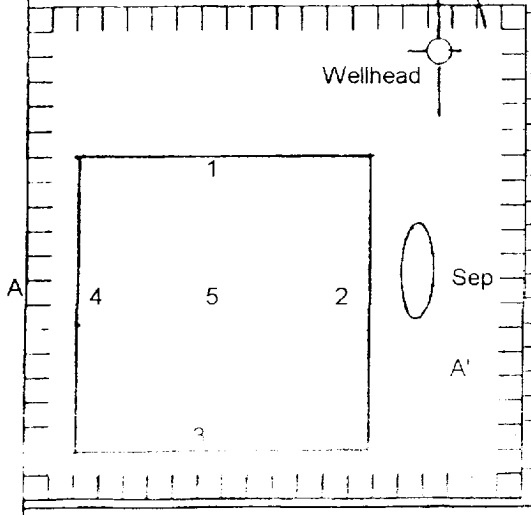
Total Depth at Bedrock

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5 @ 7 ft	GAC643	10	20	1	34	68

SCALE
0 FEET

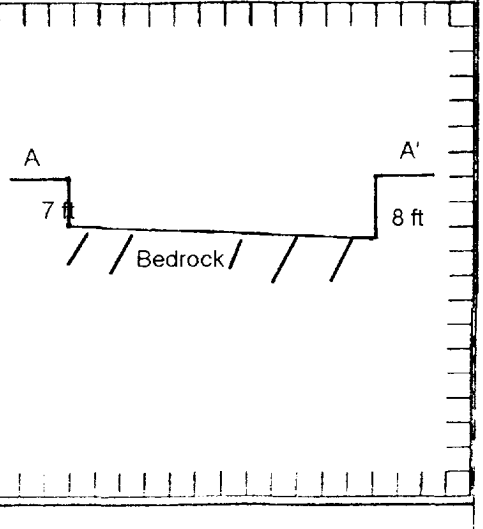
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 5 ft	9.2
2 @ 5 ft	10.6
3 @ 5 ft	11.0
4 @ 5 ft	37.5
5 @ 7 ft	466
LAB SAMPLES	
5 @ 7 ft	BTEX (8020)

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:	5 @ 7'	Date Analyzed:	8-8-94
Project Location:	San Juan 32-7 #46 PC	Date Reported:	8-8-94
Laboratory Number:	GAC0643	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 PA216

Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	PHILLIP'S PETRO	Project #:	93163
Sample ID:	5@7'	Date Reported:	08-16-94
Laboratory Number:	7786	Date Sampled:	08-08-94
Sample Matrix:	Soil	Date Received:	08-08-94
Preservative:	Cool	Date Extracted:	08-12-94
Condition:	Cool & Intact	Date Analyzed:	08-12-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	19.1
Toluene	31	19.1
Ethylbenzene	14	12.7
p,m-Xylene	ND	19.1
o-Xylene	ND	19.1

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	96 %
Bromofluorobenzene	84 %

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 PIT PA216

Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-15-94
Laboratory Number:	0811BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-11-94
Condition:	NA	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.3
Toluene	ND	0.4
Ethylbenzene	ND	0.3
p,m-Xylene	ND	0.3
o-Xylene	ND	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	102 %
Bromofluorobenzene	128 %

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:

Rex L Griffin
Analyst

Review

ENVIROTECH LABS

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** QUALITY ASSURANCE REPORT — MATRIX DUPLICATE
METHOD 8020 BTEX — AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	08-15-94
Laboratory Number:	7765 DUPLICATE	Date Sampled:	08-02-94
Sample Matrix:	Water	Date Received:	08-02-94
Preservative:	HgCl and Cool	Date Analyzed:	08-11-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Percent Difference
Benzene	0	0	0.9
Toluene	15.2	16.0	5.4
Ethylbenzene	3.0	3.7	18.7
p,m-Xylene	ND	ND	0.0
o-Xylene	ND	ND	0.0

QA ACCEPTANCE CRITERIA: Administrative control limit set at maximum of 30% difference.

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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:

Roy L. Griffin
Analyst

Review

Pit # PA216

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Phillips Pet. 93163	San Juan	
Sampler: (Signature)	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
5@7'	8/8/94	15:00	7786	Soil	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/8/94	16:50	Roy L Griffin	8/8/94	
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Farmington, New Mexico 87401
(505) 632-0615

san juan repro Form 578-81

ENVIROTECH Inc

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

PIT No: PA 216
C.O.C #:

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 32-7 # 46 PC
SOURCE LOCATION:
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.

DATE STARTED: 9/21/94
DATE FINISHED: 9/21/94

ENVIRONMENTAL SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 450 cubic yards # OF COMP. SAMPLES: 3
DIMENSIONS:
VISIBLE OBSERVATIONS: Clay, gray to reddish brown, dry, No odor
SAMPLING PLAN:

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

DEPTH TO GROUNDWATER: 180 ft
NEAREST WATER SOURCE/TYPE: >1000 ft
NEAREST SURFACE WATER: >1000 ft
MAX TPH PER NMOCD: 5000 ppm

C 1 : 17 X 2 = 38 ppm, TPH

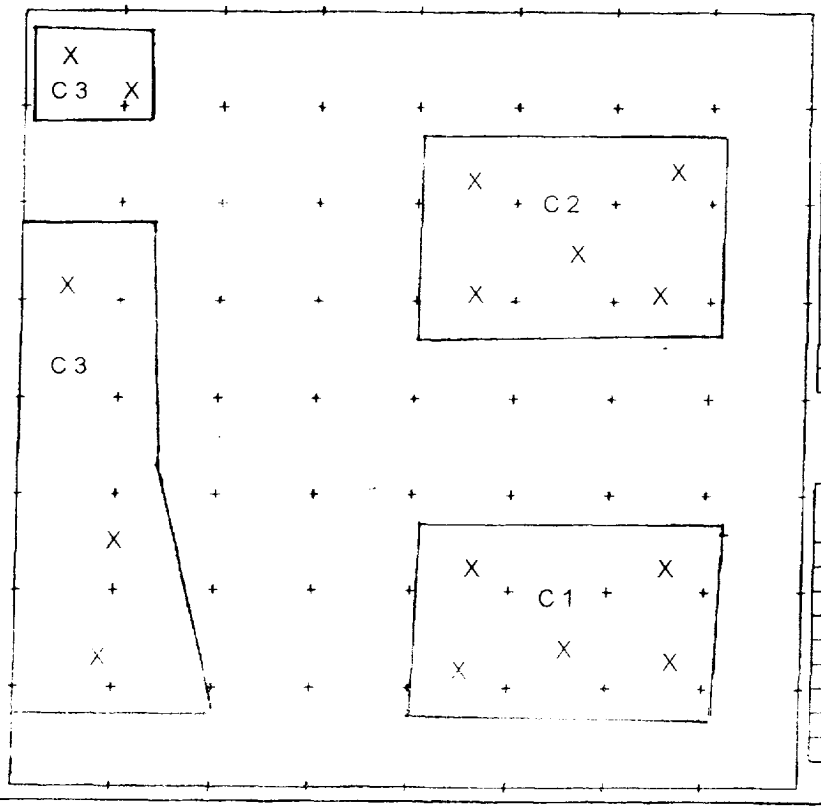
C 2 : 16 X 2 = 32 ppm, TPH

C 3 : 12 X 2 = 24 ppm, TPH

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

FACILITY DIAGRAM

GRID SCALE:

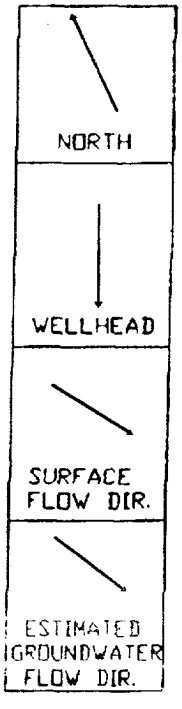


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
C 1	27
C 2	12
C 3	4

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
C 1	TPH	38
C 2	TPH	32
C 3	TPH	24



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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C1	Date Analyzed:	9-21-94
Project Location:	San Juan 32-7 # 46 PC	Date Reported:	9-26-94
Laboratory Number:	GAC0785	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	34	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
89	96	8

*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 PA216

Analyst

Review

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C2	Date Analyzed:	9-21-94
Project Location:	San Juan 32-7 # 46 PC	Date Reported:	9-26-94
Laboratory Number:	GAC0786	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	32	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
89	96	8

*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 PA216

Analyst

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	C3	Date Analyzed:	9-21-94
Project Location:	San Juan 32-7 # 46 PC	Date Reported:	9-26-94
Laboratory Number:	GAC0787	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	24	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
89	96	8

*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 PA216

Analyst

Review Morris D. Young