

District I *Kenneth E. Frost*
P.O. Box 10980, Albuquerque, NM 87110
District II **DEPUTY CHIEF & GAS INSPECTOR**
P.O. Drawer DD, Artesia, NM 88211
District III **DEC 02 1997**
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

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

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

Facility Or: San Juan 30-5 Unit # 73 DK

Well Name

Location: Unit or Qtr/Otr Sec **NWNE** Sec **10** T **30N** R **5W** County **Rio Arriba**

Pit Type: Separator	X	Dehydrator	Other
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Land Type: BLM **X** , State , Fee _____, Other _____

Pit Location: _____ Pit dimensions: Length 18 ft, width 17 ft, depth 7 ft
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 75 ft

[illegible]

Depth to Ground Water:	<u>250 ft</u>	Less than 50 feet	(20 points)	
(vertical distance from		50 ft to 99 feet	(10 points)	
contaminants to seasonal		<u>X</u> Greater than 100 feet	(0 points)	<u>0</u>
highwater elevation of				
ground water)				

Wellhead Protection Area:
(less than 200 feet from a private
domestic water source, or: less than
1000 feet from all other water sources).

RECEIVED
AUG 29 1997

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.)

OIL CON. DIV.	Less than 200 feet	(20 points)	
DIST. 3	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0

P:\pits\PrnC@a.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/17/94 Date Completed: 4/11/95

Excavation X Approx. cubic yards 40

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action : Based on the initial assessment, soils were excavated to a depth of 3 feet below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 9/20/94. The landfarm tested clean on 4/11/95. The landfarmed soils were then used to fill the 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 South wall

Sample depth 6 feet below ground level

Sample date 9/20/94 Sample time 13:00

Sample Results

Benzene(ppm) ND

Total BTEX (PPM) 0.445

Field Headspace (ppm) 210

TPH 486

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 8/26/97 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: PA226

C.D.C. NO: 3878

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: 8/17/94
DATE FINISHED: 8/17/94
ENVIRO. SPLY: CJC
OPERATOR: Cimarron
ASSISTANT:

LOCATION: LEASE: San Juan 30-5 WELL: #73 DK QD: 900' FNL & 1760' FEL (B)
SEC: 10 TWP: 30N RNG: 5W PM: NM CNTY: R.A. ST: NM PIT: Separator

LAND USE: Range Lease # SF-078997

SURFACE CONDITIONS: Earthen pit

PIT CENTER IS LOCATED APPROXIMATELY 75 FEET West OF WELLHEAD.

CLOSURE STD: 5000 ppm TPH

Depth to Ground Water = 250 feet

RANKING SCORE: 0

4' - 7' Soil is shale, grey, tan, purple, soft to firm, dry, strong HC odor

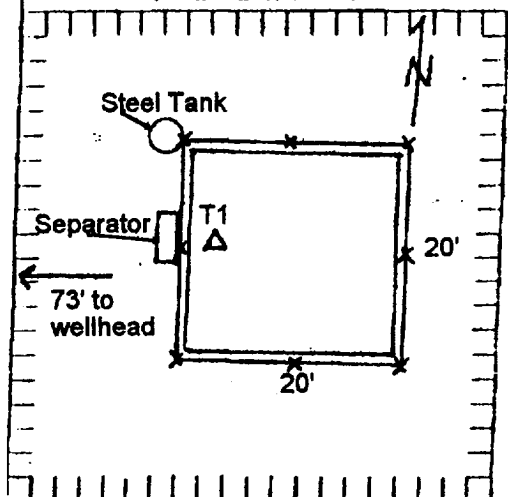
GAC668 = 145 x 2 ==> 290 ppm

SAMPLE INVENTORY		
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
T1 @7'	GRB	418.1 TPH
T1 @7'	GRB	BTEX 8020

SCALE

0 10 FEET

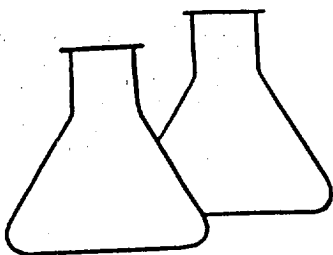
SITE DIAGRAM



TEST HOLE LOGS

TH#:	TH#:	TH#:	TH#:
SOIL TYPE:	SMPL TYPE:	SOIL TYPE:	SMPL TYPE:
GD	TPH	SOIL TYPE:	SMPL TYPE:
1			
2			
3			
4	Pit bottom		
5			
6			
7	CL GRB 176		
8			
9			
10			
11			
12	CL GRB 39.6		
13			
14			

SOIL TYPE: C - Clay, M - Sil. S - Sand, G - Gravel, P - Peat, L - Lignite, H - Hard, N - Plastic, B - Boulders, F - Fills, W - Wet



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:
Sample ID:
Project Location:
Laboratory Number:

Phillips Petroleum
T-1 @ 7'
San Juan 30-5 #73 DK
GAC0668

Project #: 93163
Date Analyzed: 8-17-94
Date Reported: 8-17-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	290	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	7,420	6,960	6

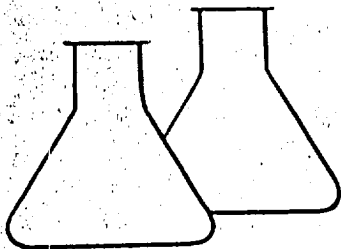
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226

Analyst

Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client: PHILLIPS
Sample ID: TI07'
Laboratory Number: 7826
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 93163
Date Reported: 08-19-94
Date Sampled: 08-16-94
Date Received: 08-16-94
Date Extracted: 08-18-94
Date Analyzed: 08-18-94
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	43	19.5
Toluene	1130	19.5
Ethylbenzene	56	13.0
p,m-Xylene	504	19.5
o-Xylene	193	19.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	120 %
	Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: SAN JUAN 30-5 # 73 DK SEP PIT PA226

Ray E. Lauffin
Analyst

Morris D. Young
Review

CLIENT: Phillips Petroleum**ENVIROTECH Inc.**PIT NO: PA2265798 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0815C.D.C. NO: 3922**FIELD REPORT: CLOSURE VERIFICATION**JOB No: 93163PAGE No: 1 of 1LOCATION: NAME: San Juan 30-5 WELL #: 73 DK PIT: Sep.DATE STARTED: 9/20/94QUAD/UNIT: B SEC: 10 TWP: 30N RNG: 5W BM: NM CNTY: R.AST. NMDATE FINISHED: 9/20/94QTR/FOOTAGE: 900' FNL, 1760' FEET CONTRACTOR:ENVIRONMENTAL
SPECIALIST: CJCSOIL REMEDIATION: EXCAVATION APPROX. 18 FT. x 17 FT. x 7 FT. DEEP.DISPOSAL FACILITY: On-site landfarm CUBIC YARDAGE: LAND USE: Range LEASE: SF-078997FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75 FEET West FROM WELLHEAD.DEPTH TO GROUNDWATER: 250' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5000 PPMSOIL AND EXCAVATION DESCRIPTION: 0 - 7' Shale, weathered, grey, tan, brown, purple,
dry, soft, slight odor.

FIELD 4181 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5 @ 7'	770	10	20	2	54	108
3 @ 6'	771	10	20	2	243	486
2 @ 6'	772	10	20	2	12	24
4 @ 6'	773	10	20	2	352	704
1 @ 6'	774	10	20	2	30	60

SCALE

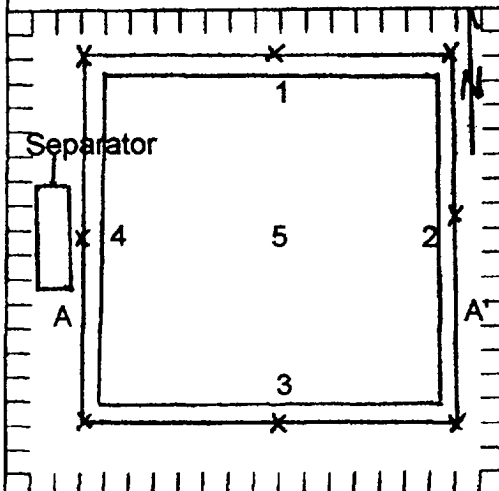


0 10 FEET

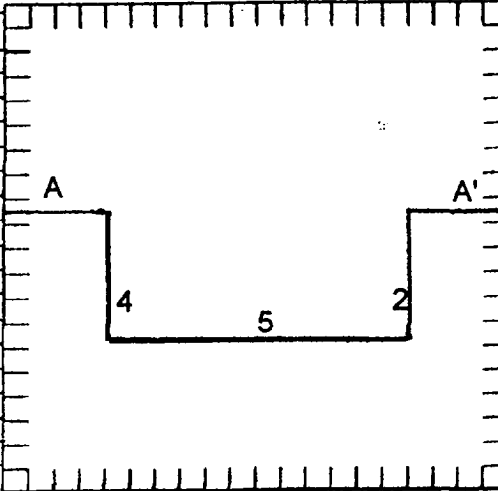
PIT PERIMETER

OVM
RESULTS

PIT PROFILE

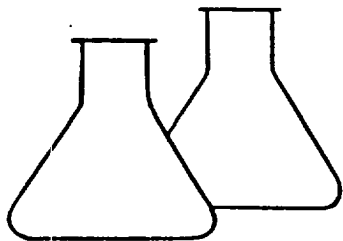


SAMPLE I.D.	FIELD HEADSPACE PD (ppm)
1 @ 6'	110
2 @ 6'	5
3 @ 6'	210
4 @ 6'	95
5 @ 7'	141
LAB SAMPLES	
3 @ 6'	BTEX



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 @ 7.0'	Date Analyzed:	9-20-94
Project Location:	San Juan 30-5 # 73 DK	Date Reported:	9-26-94
Laboratory Number:	GAC0770	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	108	10

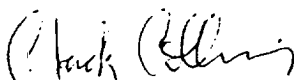
ND = Not Detectable at stated detection limits.

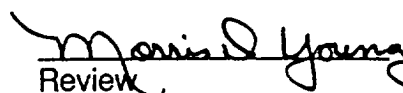
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	126	142	12

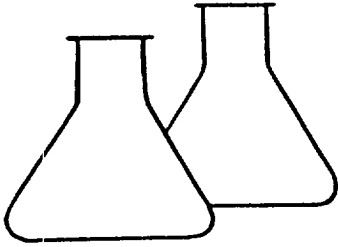
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226


Analyst


Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	3 @ 6.0'	Date Analyzed:	9-20-94
Project Location:	San Juan 30-5 # 73 DK	Date Reported:	9-26-94
Laboratory Number:	GAC0771	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	486	10

ND = Not Detectable at stated detection limits.

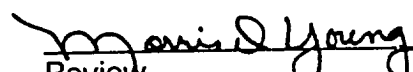
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	126	142	12

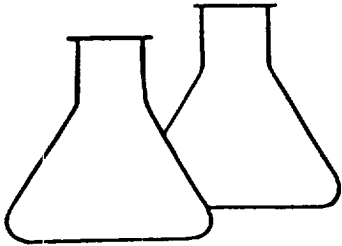
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226


Analyst


Review



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	2 @ 6.0'	Date Analyzed:	9-20-94
Project Location:	San Juan 30-5 # 73 DK	Date Reported:	9-26-94
Laboratory Number:	GAC0772	Sample Matrix:	Soil

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

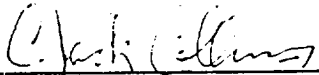
ND = Not Detectable at stated detection limits.

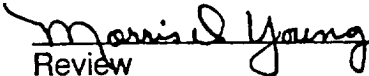
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	126	142	12

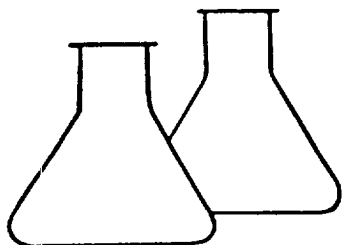
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226


Analyst


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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	4 @ 6.0'	Date Analyzed:	9-20-94
Project Location:	San Juan 30-5 # 73 DK	Date Reported:	9-26-94
Laboratory Number:	GAC0773	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	704	10

ND = Not Detectable at stated detection limits.

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

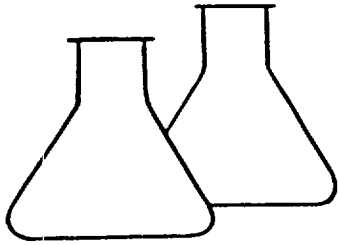
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226

C. Lodi (Signature)
Analyst

Morris D. Young (Signature)
Review



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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:	1 @ 6.0'	Date Analyzed:	9-20-94
Project Location:	San Juan 30-5 # 73 DK	Date Reported:	9-26-94
Laboratory Number:	GAC0774	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	60	10

ND = Not Detectable at stated detection limits.

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

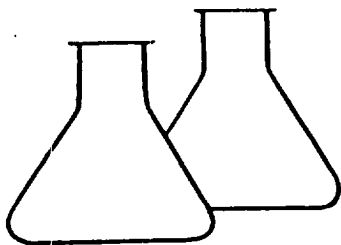
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA226

C. Jack Collins
Analyst

Mavis D. Young
Review



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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	3 @ 6'	Date Reported:	09-23-94
Laboratory Number:	7899BTEX.	Date Sampled:	09-20-94
Sample Matrix:	Soil	Date Received:	09-20-94
Preservative:	Cool	Date Extracted:	09-22-94
Condition:	Cool & Intact	Date Analyzed:	09-22-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.1
Toluene	78	19.7
Ethylbenzene	30	19.7
p,m-Xylene	190	19.7
o-Xylene	147	19.7

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	114 %
	Bromofluorobenzene	114 %

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 30-5 # 73 DK

Rex L. Griffin
Analyst

Marvin D. Young
Review

See also Form 970-01

ENVIROTECH Inc.

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

PIT No: PA226
C.O.C #: 4151

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 30-5 # 73 DK
SOURCE LOCATION: Sec. 10, T30N, R5W
SOURCE LOCATION: Unit B, 900' ENL & 1760' FEL
SOURCE LOCATION:
FACILITY CLASSIFICATION: On-site landfarm PIT TYPE: Sep.

DATE STARTED: 4-11-95
DATE FINISHED: 4-11-95

ENVIRONMENTAL
SPECIALIST: CJC

SOIL REMEDIATION: QUANTITY: 40 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 48' x 45' x .5' deep

VISIBLE OBSERVATIONS:
SAMPLING PLAN: 1 5-point composite

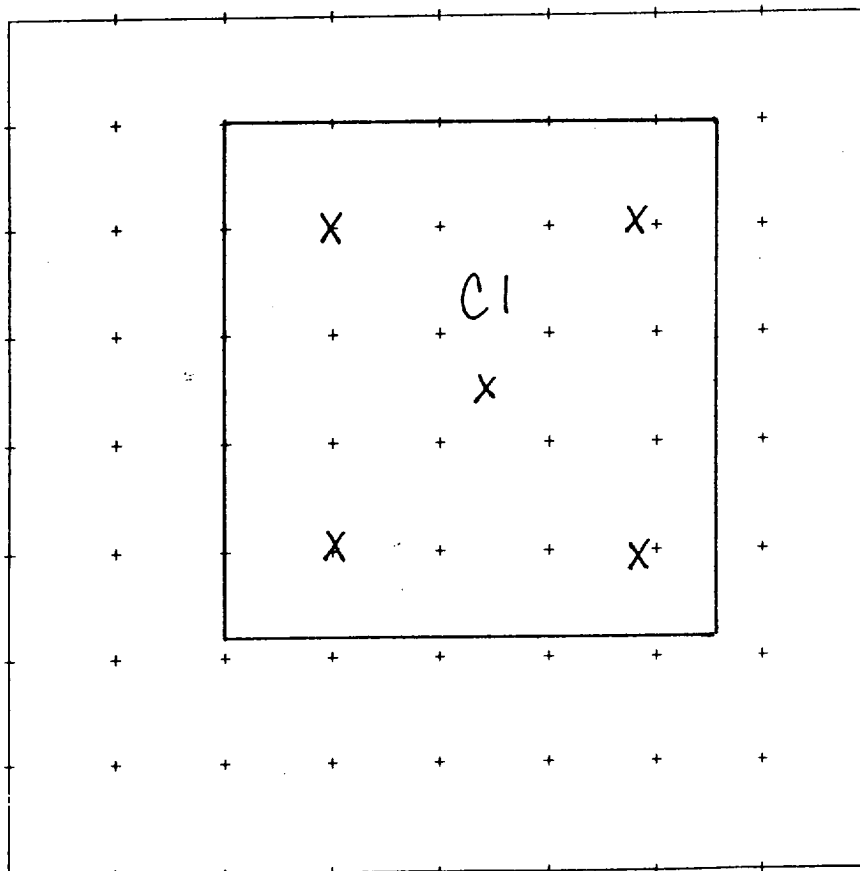
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 50 YARDS SW FROM WELLHEAD.

DEPTH TO GROUNDWATER: 250'
NEAREST WATER SOURCE/TYPE: >1000'
NEAREST SURFACE WATER: >1000'
MAX TPH PER NMOC: 5000 ppm

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

FACILITY DIAGRAM

GRID SCALE: 10'

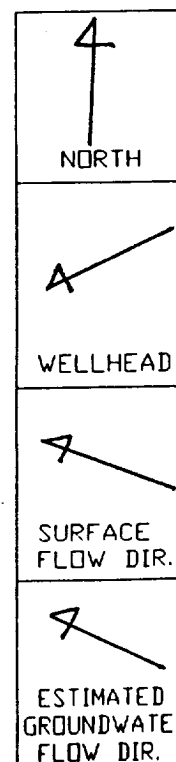


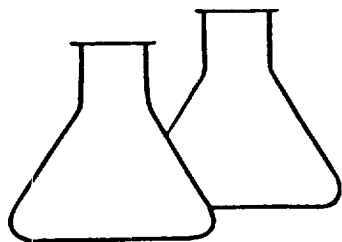
OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
C1	16.0

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
C1	TPH	316





ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

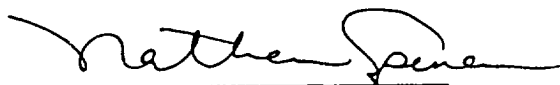
Client:	Phillips	Project #:	93163
Sample ID:	S.J.30-5 #73DK C1	Date Reported:	04-13-95
Laboratory Number:	8347	Date Sampled:	04-11-95
Chain of Custody No:	4151	Date Received:	04-12-95
Sample Matrix:	Soil	Date Extracted:	04-12-95
Preservative:	Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	316	10.0

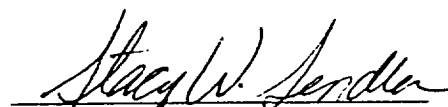
ND = Parameter not detected at the stated detection limit.

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									
Phyllips/93136			Chain of Custody Tape No.											
Sampler: (Signature) <i>Paul Collins</i>														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 4151				BTX				Remarks
SJ-29-b #103 C1	4/1/95	901	8341	50:20	1	X								
SJ-29-b #14 C1		1001	8342		1	X								
SJ-29-b #89 C1		1108	8343		1	X								
SJ-29-b #106 C1		1626	8344		1	X								
SJ-30-b #47 C1		1357	8345		1	X								
SJ-31-b #50 DK C1		1258	8346		1	X								
SJ-30-b #73 DK C1		1444	8347		1	X								
SJ-29-b #94 C1		1534	8348		1	X								
SJ-29-b #87 C1	✓	1707	8349		2	X		X						
Relinquished by: (Signature) <i>Paul Collins</i>			4-11-95	1707	8350									
Relinquished by: (Signature)			4-12-95	0713	Received by: (Signature) <i>Metla Spence</i>									
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
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