

1000 Rio Brazos Rd, Aztec, NM 87410

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

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

Denny E. Faust DISTRICT DEPUTY OIL & GAS INSPECTOR

MAR 28 1995

Approved

PIT REMEDIATION AND CLOSURE REPORT

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

Pit Location: Pit dimensions: Length 22', width 22', depth 4'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 60
Direction from reference: 60 Degrees _____ East North _____
X West South X

Depth to Ground Water: 80 _____

(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

_____	Less than 50 feet	(20 points)	
<u>X</u>	50 ft to 99 feet	(10 points)	10
_____	Greater than 100 feet	(0 points)	_____

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

<u> </u>	Yes	(20 points)	
<u> X </u>	No	(0 points)	<u> 0 </u>

Distance to Surface Water:	_____	Less than 200 feet	(20 points)	
(Horizontal distance to perennial	_____	200 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,	<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches.)				

PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

RECEIVED

FEB 22 1995

OIL CON. DIST.

Date Remediation Started: N/A Dated Completed: _____

Excavation _____ Approx. cubic yards _____

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Method: Onsite _____ Offsite _____
(Check all appropriate sections)

General Description of Remedial Action: N/A

Initial assessments showed soils to be clean at the surface, at 3' below pit bottom, and at 12' below pit bottom.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location deepest part of pit. Sampled with a backhoe.

Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample depth 12' below pit bottom

Sample date 8-22-94 Sample time _____

Sample Results

Benzene (ppm) .032

Total BTEX (PPM) .179

Field Headspace (ppm) 490

TPH 68

(Analytical data from 3' below pit bottom is included on Assessment Summary.)

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 2/20/95

PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely

and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY

1994

ENVIROTECH, INC.

REVISED DATE: SEPT 28, 1994

CJC

REVISED DATE: SEPT 28, 1994													CJC		EPA METHOD 8020 (PPB) METHOD 5030 PURGE - AND - TRAP									
PIT NO	WELL NAME	U S T R	PIT TYPE	RANK SCORE	CLOSURE STANDARD TPH (PPM)	DATE	GROUNDWATER CONC. (PPM)	SOIL TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Recoverable Per. Hydro. (PPM)	Benzene	Toluene	Ethyl Benzene	Xylene	TOTAL BTEX	STATUS							
PA220	SAN JUAN 28-7 #47	A353207	SEP/BLOW	10	1000	07/13/94	NO	CLAY/SLT	T1@ 3.0'	686							CLOSE							
									T1@ 6.0'	684	142													
									T1@ 8.0'	681	248													
									T1@ 10.0'	685	64	ND	97	ND	260	357								
									T1@ 14.0'	677	242													
PA226	SAN JUAN 30-5 #73 DK	B103005	SEP	0	5000	08/17/94	NO	SHALE	T1@ 7.0'	176	280	43	1130	56	697	1828	CLOSE							
									T1@ 12.0'	398														
PA227	SAN JUAN 30-5 #61 MV	A153005	SEP	10	1000	08/18/94	NO	CLAY	T1@ 4.5'	15	36						CLOSE							
									T1@ 16.0'	490	68	32	96	ND	51	178	CLOSE							
PA227A	SAN JUAN 28-0 #107	A382905	SEP	10	1000	08/22/94	NO	CLAY	T2@ 4.5'	48	188						CLOSE							
									T2@ 7.0'	345	74	ND	ND	ND	ND	ND								
278	SAN JUAN 28-0 #107	A382905	SEP	10	1000	09/07/93	NO																	
PA228	SAN JUAN 28-5 #91	B352903	SEP			08/22/94	NO	SAND	T1@ 5.5'	547	42715						REMEDATE TO 5.5'							
									T3@ 3.0'	59	ND						BEDROCK							
PA229	SAN JUAN 28-5 #90	N352905	SEP	0	5000	08/22/94	NO	SANDY CLAY	T1@ 3.5'	158	36	48	183	84	565	880	CLOSE							
									T1@ 6.0'	157														
PA230	SAN JUAN 28-6 #1P #66	M022908	SEP	10	1000	08/23/94	NO	SLTY CLAY	T1@ 6.0'	65	34						CLOSE							
									T1@ 4.0'	190	318	33	339	121	1440	1833	CLOSE							
PA231	SAN JUAN 28-5 #103 PC	K042905	SEP	0	5000	08/23/94	NO	SLTY CLAY	T1@ 4.5'	544	4720	34	76	19	240	369	CLOSE							
PA232	SAN JUAN 28-8 #114	A072908	SEP	0	5000	08/23/94	NO	SLTY CLAY	T1@ 7.0'	80	24													
PA233	SAN JUAN 28-5 #71	M162905	SEP	10	1000	08/29/94	NO	CLAY/SHALE	T1@ 5.5'	0	ND						CLOSE							
									T1@ 8.0'	16	22													
PA234	SAN JUAN 30-5 #99	A333005	SEP	0	5000	08/29/94	NO	CLAY/SHALE	T1@ 4.5'	0	ND						CLOSE							
									T1@ 7.0'	0	ND													
PA235	SAN JUAN 30-5 #100 DK	A343005	SEP	0	5000	08/29/94	NO	SNDY SHALE	T1@ 5.5'	0	ND						CLOSE							
PA236	SAN JUAN 28-5 #79	G212905	SEP	10	1000	08/29/94	NO	SAND/CLAY	T1@ 6.0'	288	359	84	29	91	299	503	CLOSE							
37	SAN JUAN 28-5 #75	M222905	SEP	10	1000	08/30/94	NO	SNDY CLAY	T1@ 6.0'	396	3360						REMEDATE TO 6.0'							
									T1@ 11.0'	425	280	54	36											
PA238	SAN JUAN 28-5 #70	H282905	SEP	10	1000	08/30/94	NO	CLAY	T1@ 6.0'	147	20	52	31		78	181	CLOSE							
PA239	SAN JUAN 28-5 #87	C252905	SEP	10	1000	08/30/94	NO	CLAY/SAND	T1@ 6.0'	466	7580						REMEDATE TO 14.0'							
									T1@ 11.0'	302	8980						BEDROCK							
									T1@ 14.0'	218	1320													
PA240	SAN JUAN 28-5 #104 PC	B102905	SEP	10	1000	08/31/94	NO	CLAY	T1@ 0.5'	168	6740	88	93	560	405	1127	REMEDATE TO 4.0'							
									T1@ 4.0'	140	36													
PA241	SAN JUAN 28-5 #61	H082905	SEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5'	2	ND						CLOSE							
									T1@ 7.0'		12													
PA242	SAN JUAN 28-5 #59	H312905	SEP	10	1000	08/31/94	NO	CLAY/SAND	T1@ 7.0'	470	5640						REMEDATE TO 11.0'							
									T1@ 11.0'	84	22						BEDROCK							
PA243	SAN JUAN 28-0 #78	L222906	SEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5'	0	18						CLOSE							
									T1@ 7.0'	0	14													

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

3887

JCE No. 07103
 PAGE No. 1 of 1

DATE STARTED: _____
DATE FINISHED: 22 Apr 74
ENVIRO. SPCLT: 282 FM
OPERATOR: DIMARFON
ASSISTANT: K.C.

LAND USE: RANGE LEASE NO. E-289-3
SURFACE CONDITIONS: Barren D.T. - dry

Depth to GW = 80'

Pit is 22' x 22' x 4' deep

SCALE

0 10

FEET

1 cm = 10'

STEEL
TANK
(P.T.)

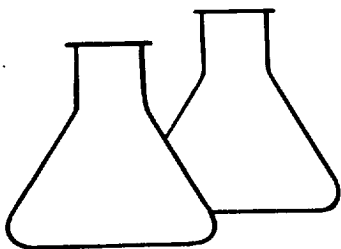
SEP

T1

Prod
TANK

SURFACE GRADIENT

TH#:	SOIL TYPE:	SMPL. TYPE:	QVM. TOW:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T-1 @ 16'	Date Analyzed:	8-22-94
Project Location:	San Juan 29-6 #107	Date Reported:	8-22-94
Laboratory Number:	GAC0672	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	65	10

ND = Not Detectable at stated detection limits.

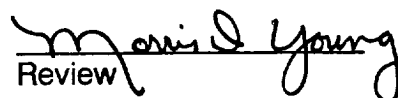
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	7,420	6,960	6

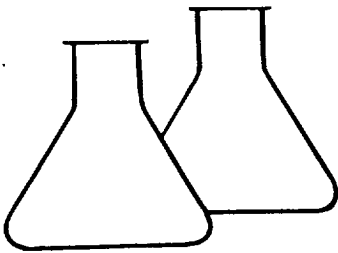
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA227


Analyst


Review



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	TI@16'	Date Reported:	09-02-94
Laboratory Number:	7834	Date Sampled:	08-22-94
Sample Matrix:	Soil	Date Received:	08-22-94
Preservative:	Cool	Date Extracted:	08-26-94
Condition:	Cool & Intact	Date Analyzed:	09-01-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	32	19.8
Toluene	96	19.8
ethylbenzene	ND	13.2
p,m-Xylene	24	19.8
o-Xylene	27	19.8

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	135 %
	Bromofluorobenzene	112 %

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 # 107 sep pit PA227

Rex L. Duffin
Analyst

Maris D. Young
Review

ENVIROTECH Inc

1790 US HWY 64 FARMINGTON NM 87401
505-672-0615

WELL NO 227B

WELL NO 3910

WELL REPORT SITE ASSESSMENT

DATE 9/21/94
PAGE 1

PROJECT: ENVIRONMENTAL ASSESSMENT
CLIENT: Phillips Petroleum
ANALYST: ENVIROTECH INC

DATE STARTED 9/17/94
DATE FINISHED 9/17/94
ENGINEER: CJC
OPERATOR:
ASSISTANT:

LEASE: SEC 36 TWP 29N RNG 6W PM NM INTER. 10-11-84 NM PIT Sep.

Range

WELL: 57 FEET SW

0'-2' clay, tan, brn, soft, dry, no odor.
2'-3' Clay, grey, lt green, dry, soft, slight odor

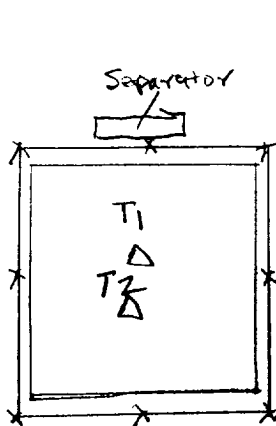
DEPTH	WELL	WELL	WELL	WELL	WELL
T2@7'	719	10	20	2	37 74
T2@4.5'	720	10	20	2	84 168

80
NONE
NONE
10
<1000

SAMPLE INVENTORY		
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS
T2@7'	Soil	PTX

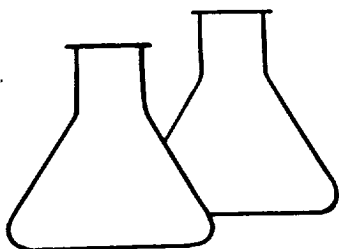
SCALE
0 20 FEET

SITE DIAGRAM



TH=	TH=	TH=	TH=
SOIL TYPE	SMPL TYPE	SMPL TYPE	SMPL TYPE
0	0		
1	1		
2	2		
3	3		
4	4	48/168	
	5	Claytan	
	6		
	7	Claytan	345/74

Legend: S = Sand, G = Gravel, F = Fines, L = Lignite, H = High, R = Rock, W = Well



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T-2 @ 7.0'	Date Analyzed:	9-07-94
Project Location:	San Juan 29-6 #107	Date Reported:	9-26-94
Laboratory Number:	GAC0719	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	74	10

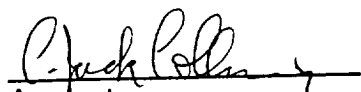
ND = Not Detectable at stated detection limits.

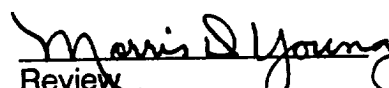
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	14	13	7

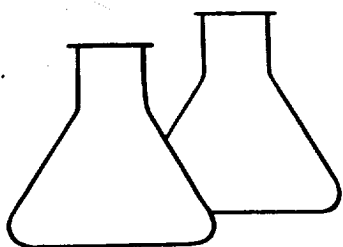
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA227


Analyst


Review



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	T-2 @ 4.5'	Date Analyzed:	9-07-94
Project Location:	San Juan 29-6 #107	Date Reported:	9-26-94
Laboratory Number:	GAC0720	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	168	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	14	13	7

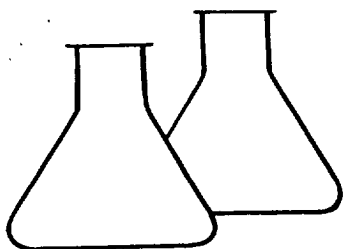
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA227

C. Jack Collins
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	T2 @7'	Date Reported:	09-09-94
Laboratory Number:	7882	Date Sampled:	09-07-94
Sample Matrix:	Soil	Date Received:	09-07-94
Preservative:	Cool	Date Extracted:	09-09-94
Condition:	Cool & Intact	Date Analyzed:	09-09-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	47.2
Toluene	96	27.0
Ethylbenzene	ND	13.5
p,m-Xylene	510	20.2
o-Xylene	580	20.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	119 %
	Bromofluorobenzene	116 %

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 #107

Rex L. Hoffman
Analyst

Maris L. Young
Review