

District I

P.O. Box 1960, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

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

DEPUTY OIL & GAS INSPECTOR

SEP 08 1995

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 30-5 Unit #77

Well Name

Location: Unit or Qtr/Qtr Sec SWNE Sec 36 T 30N R 5W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: BLM State Y Fee Other

Pit Location: Pit dimensions: Length 35', width 35', depth 3'

(Attach diagram) Reference: wellhead X, other

Footage from reference: 55'

Direction from reference: 75 Degrees X East North

 West South X

Depth to Ground Water: > 100 Less than 50 feet (20 points)

(vertical distance from 50 ft to 99 feet (10 points)

contaminants to seasonal X Greater than 100 feet (0 points) 0

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)

X Yes (20 points)

 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

RANKING SCORE (TOTAL POINTS): 0

PITCFRM.WK3

RECEIVED

AUG - 8 1995

OIL CON. DIV.

DIST. 3

Date Remediation Started: 7/25/94 Dated Completed: 8/16/94

Excavation X Approx. cubic yards 36

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 1 foot below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 8/17/94. The landfarm tested clean on 8/16/94. 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 Individual samples were collected from each wall and the bottom of the excavation.

Sample depth 3.5 feet from surface

Sample date 8/17/94 Sample time -

Sample Results

Benzene (ppm) -

Total BTEX (PPM) -

Field Headspace (ppm) 1

TPH 102

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 8-4-95 PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM SURFACE IMPOUNDMENT CLOSURE RESULTS

1994

--ENVIROTECH, INC.--

REVISED DATE: SEPTEMBER 29, 1994 (CJC)

PIT NO.	WELL NAME	DEPTH TO WATER (ft)	NMCCD SCORE	TPH STD (ppm)	PIT CTR. FROM WELLHEAD	SAMPLE DATE	SAMPLE LOCATION	OVUM PPM	TPH (ppm)	EPA METHOD 8020 (PPB) Benzene	TOT. BTX	STATUS
PA121	SAN JUAN 29-6 #13A	80	10	1000	55' @ N30E	8-18-94	N @ 12'	253				PERMANENT
							E @ 12'	94				
							S @ 12'	534	100			
							W @ 12'	363		48		
							BOTTOM @ 14'	474			510	
PA124	SAN JUAN 29-6, #11A		0	5000	75' NORTH	8-10-94	N SIDE @ 11'	5	4			PERMANENT
							E SIDE @ 11'	1				
							S SIDE @ 11'	1				
							W SIDE @ 11'	1				
							C BOTTOM @ 13'	1				
PA125	SAN JUAN 29-5 #58	40	20	100	45' SOUTH	8-12-94	N @ 6'	4				PERMANENT
							E @ 6'	3				
							S @ 6'	2				
							W @ 6'	3				
							BOTTOM @ 7'	10	24			
PA126	SAN JUAN 29-5 #54	50	10	1000	40' @ N45W	8-12-94	N @ 10'	82				CONDITONAL
							E @ 10'	12				
							S @ 10'	279	556			
							W @ 10'	134				
							BOTTOM @ 11'	13				
PA129	SAN JUAN 29-5 #9-26	240	0	5000	110' SOUTH	8-15-94	N @ 8'	101				CONDITONAL
							E @ 8'	105				
							S @ 8'	651				
							W @ 8'	126				
							BOTTOM @ 9'	667	7420			
PA145	SAN JUAN 30-5 #77 DK	>1000	0	5000	55' @ S75E	8-16-94	N @ 3.5'	8	6200			BEDROCK
							E @ 3.5'	3				
							S @ 3.5'	3				
							W @ 3.5'	2				
							BOTTOM @ 3.5'	3				
							N # 3.5	1	102			PERMANENT
PA148	SAN JUAN 30-5 #84 PC	100	10	1000	50' @ S45W	8-16-94	N @ 5.5'	4				PERMANENT
							E @ 5.5'	39	68			
							S @ 5.5'	3				
							W @ 5.5'	2				
							BOTTOM @ 6'	4				

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615PIT NO: PA145C.O.C. NO: 3876

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163PAGE No: 1 of 1LOCATION: LEASE: SAN JUAN 30-S WELL # 77 DK PIT: SEP

DATE STARTED:

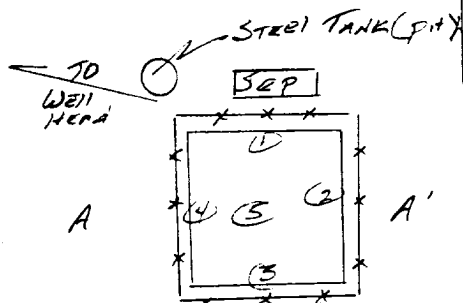
DATE FINISHED: 16 Aug 94UNIT: H SEC. 36 TWP: 30N RNG: 5W BM: NM CNTY: RA ST: NMENVIRONMENTAL
SPECIALIST: FM.405NL
840FEL CONTRACTOR:SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 20 FT. x 3 1/2 FT. DEEP.DISPOSAL FACILITY: LAND FARM - On-siteLAND USE: RANGE LEASE NO. E-347-26FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 55 FEET S 75 E FROM WELLHEAD.DEPTH TO GROUNDWATER: 30 NEAREST SURFACE WATER: 1000 NEAREST WATER SOURCE: 1000NMOC RANKING SCORE: 20 NMOC TPH CLOSURE STD: 100 ppmSOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown silty sand with the east wall being brown clay. Bedrock @ TD = 3 1/2'1056K2 $\Rightarrow$ dilution x10
FIELD #181 CALCULATIONS

SAMPLE NO.	LAB No:	WEIGHT (g)	ML	FREQ	DILUTION	READING	CALC. ppm
103 3/4	PA0663	10	20	10	310	6200	

1CM = 10'

SCALE

0

FEET
PIT PERIMETEROVM
RESULTS

SAMPLE	FIELD HEADSPACE
N 10 3/4	7.7
E 20 3/4	3.4
S 30 3/4	2.9
W 40 3/4	2.4
Sum 50 3/4	2.9
2F6	5.9

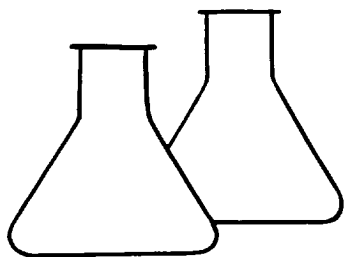
PIT PROFILE



TRAVEL NOTES.

CALCULATED

ONSITE:



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:	1 @ 3.5'	Date Analyzed:	8-16-94
Project Location:	San Juan 30-5 #77 DK	Date Reported:	8-16-94
Laboratory Number:	GAC0663	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	6,200	100

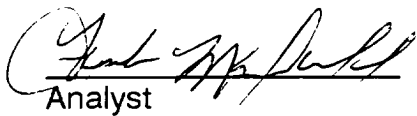
ND = Not Detectable at stated detection limits.

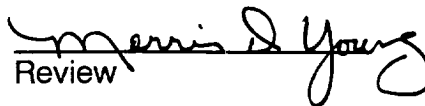
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	7,420	6,960	6

* 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 PA145


Analyst


Review

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA1455796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615C.D.C. NO:

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163PAGE No: 1 of 1

1640 FAIL LOCATION: LEASE: SAN JUAN 30-5 WELL #: 77 DK PIT: SEP
370 FEL UNIT: H SEC: 36 TWP: 30N RNG: 5W BM: NM CNTY: RA ST: NM
CONTRACTOR: CIMARRON

DATE STARTED:
DATE FINISHED: 17 Aug 94
ENVIRONMENTAL
SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 25 FT. x 20 FT. x 3 1/2 FT. DEEP.DISPOSAL FACILITY: LANDFARM - ON SITELAND USE: RANGE LEASE NO. E-347-26FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 55 FEET 575°E FROM WELLHEAD:DEPTH TO GROUNDWATER: 20' ^{>100} NEAREST SURFACE WATER: >1000 NEAREST WATER SOURCE: >1000NMOC RANKING SCORE: 020 NMOC TPH CLOSURE STD: 5000 ¹⁰⁰ ppm

SOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown, slightly moist,
Silty sand.
* EXCAVATED North Wall approx. 5' to bedrock in wall
no odor

FIELD #181 CALCULATIONS

SAMPLE NO.: LAB No: WEIGHT (g) mL. FRCN | DILUTION | READING | CALC. ppm |

123 1/2' CAC666 10 20 1 51 1021 cm = 10

SCALE

0

FEET

PIT PERIMETER

TO
WELL
HEAD

STEEL TANK (PIT)

SEP

A

A'

OVM
RESULTSSAMPLE FIELD HEADSPACE
NO. (ppm)N 123 1/2' 1.2

PIT PROFILE

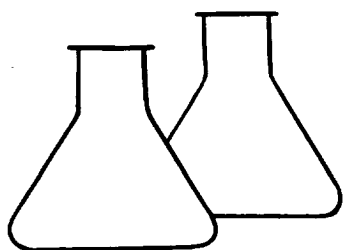
A

A'

TRAVEL NOTES.

CALCUL.

ONSITE.



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:	1 @ 3.5'	Date Analyzed:	8-17-94
Project Location:	San Juan 30-5 #77 DK	Date Reported:	8-17-94
Laboratory Number:	GAC0666	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	102	10

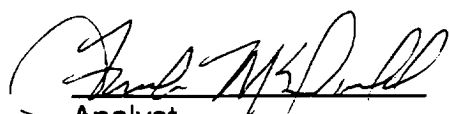
ND = Not Detectable at stated detection limits.

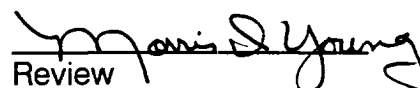
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	7,420	6,960	6

*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 PA145


Analyst


Review

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY

REVISED DATE: MAY 19, 1994

REQ

1994

ENVIROTECH, INC.

PIT NO.	WELL NAME	U-S-T-R	PIT TYPE	RANK SCORE	CLOSURE STANDARD TPH (PPM)	DATE	GROUNDWATER ENCOUNTERED Sub-Surf. Depth	SOIL TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Total Recoverable Per. Hydro. (PPM)	EPA METHOD 8020 (PPB)					TOTAL BTEX	STATUS
												METHOD 5030 PURGE - AND - TRAP						
												Benzene	Toluene	Ethyl Benzene	Xylene			
PA145	SAN JUAN 30-5, #77 DK	H363005	SEP	20	5000	5-5-94	NO	SM	T1-35	36	1600						REM 3.5'	
									T2-3	3	34							
PA146	SAN JUAN 29-5, #107 MV	D022905	SEP	0	5000	5-5-94	NO	OL	T1-4	0	56						CLOSE	
PA147	SAN JUAN 20-5, #107 PC	D022905	SEP	0	5000	5-5-94	NO	OL	T1-3	67	101000						REM 3'	
PA148	SAN JUAN 30-5, #84 PC	J333005	SEP	10	1000	5-6-94	NO	ML	T1-6	89	32						REM 2'	
PA149	SAN JUAN 30-5, #84 MV	J333005	SEP	10	1000	5-6-94	NO	ML	T1-35	0	36						CLOSE	
									T1-6	0								
PA150	SAN JUAN 30-5, #102 GD	K343005	SEP	0	5000	5-6-94	NO	ML	T1-5	0	44						CLOSE	
PA151	SAN JUAN 30-5, #74 PM	K343005	SEP	0	5000	5-6-94	NO	ML	T1-4	0	48						CLOSE	
PA152	SAN JUAN 30-5, #94 DK	B273005	SEP	10	1000	5-6-94	NO	ML	T1-45	0	28						CLOSE	
									T1-7	0								
PA153	SAN JUAN 30-5, #90 DK	H223005	SEP			5-8-94	NO	ML	T1-45	0	26						CLOSE	
									T1-7	0								
PA154	SAN JUAN 30-5, #52 DK	N153005	SEP	0	5000	5-6-94	NO	OL	T1-4	91	14500						REM 4'	
PA155	SAN JUAN 30-5, #72 DK	M103005	SEP	0	5000	5-9-94	NO	SM	T1-5	127	150	25.1	188	294	0	487.1	CLOSE	
PA156	SAN JUAN 30-5, #79 DK	B273005	SEP	0	5000	5-9-94	NO	CL	T1-35	6	30						CLOSE	
									T1-6	3								
PA157	SAN JUAN 30-5, #39	G073005	SEP	20	100	5-9-94	NO	OL/ML	T1-35	0	30						CLOSE	
									T1-6	0								
PA158	SAN JUAN 30-5, #87 DK	M063005	SEP	0	5000	5-9-94	NO	ML/SM	T1-35	0	34						CLOSE	
									T1-6	0								
PA159	SAN JUAN 30-5, #80 DK	A063005	SEP	0	5000	5-9-94	NO	SP	T1-4	281	3000	26.7	228	203	3620	4075.7	CLOSE	
PA160	SAN JUAN 30-5, #50 DK	M063005	SEP	0	5000	5-9-94	NO	CL	T1-35	0	38						CLOSE	
									T1-6	0								
PA161	SAN JUAN 31-6, #53 MV	I013008	SEP	0	5000	5-9-94	NO	CL	T1-35	0	30						CLOSE	
									T1-6	0								
PA162	SAN JUAN 31-6, #53 DK	I013008	SEP	0	5000	5-9-94	NO	CL	T1-35	0	32						CLOSE	
									T1-6	0								
PA163	SAN JUAN 31-6, #40 DK	D013006	SEP	0	5000	5-10-94	NO	OL/ML	T1-45	289	100						REM 2'	
									T1-7	48								
PA164	SAN JUAN 31-6, #31	P363106	SEP	10	1000	5-10-94	NO	SMOL	T1-35	16	30						CLOSE	
									T1-6	0								
PA165	SAN JUAN 31-6, #33	G343106	SEP	10	1000	5-10-94	NO	SC/ML	T1-45	13	450						CLOSE	
									T1-7	36								

DOC NO: —

JOB No: 93153
PAGE No: 1 of 1

DATE STARTED: _____
DATE FINISHED: 5-5-74
ENVIRO. SPOLT: EEB
OPERATOR: CIMAFFONI
ASSISTANT: K.C.

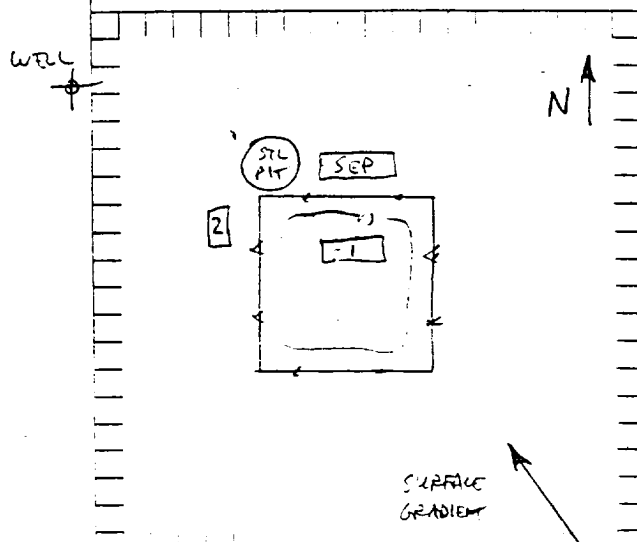
SURFACE CONDITIONS: EARTHEN PIT ~ 35' x 35' - DRY -

RANKING SCORE: 0.20

T1: PIT BUILT ON BEDROCK - APPROX 6" SOIL IN
BOTTOM. YELLOWISH/BROWN SILTY SAND - MOST - NO COB.

GAC # 460: 792 x 2 = 1584
GAC # 461: 17 x 2 = 34

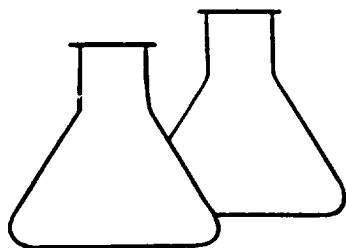
SITE DIAGRAM



TH#:

[illegible]

SOIL TYPE: 1 - Clay, 2 - Silty, 3 - Sand, 4 - Gravel Plasticity: 1 - None, 2 - Plastic Imaging: 0 - Poor, 1 - Good



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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:	T1 @ 3.5'	Date Analyzed:	5-5-94
Project Location:	San Juan 30-5 #77 DK	Date Reported:	5-5-94
Laboratory Number:	GAC0460	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	1600	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

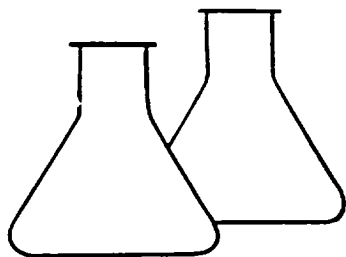
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA145

R. E. O'neil
Analyst

Mavis Young
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:	T2 @ 3'	Date Analyzed:	5-5-94
Project Location:	San Juan 30-5 #77 DK	Date Reported:	5-5-94
Laboratory Number:	GAC0461	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.
	-----	-----	-----
	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 PA145

R. E. O'Neil
Analyst

Morgan S. Young
Review