

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

STATE OFFICE

DEPUTY OIL & GAS INSPECTOR

SEP 08 1995

PIT REMEDIATION AND CLOSURE REPORTOperator: Phillips Petroleum Company Telephone: 505-599-3400Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401Facility Or: San Juan 29-6 Unit #98

Well Name

Location: Unit or Qtr/Qtr Sec ^KNESW Sec 26 T 29N R 6W County Rio ArribaPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: BLM ☐ State ☐ Fee ☒ Other ☐

Pit Location: Pit dimensions: Length 30', width 48', depth 4.5'
 (Attach diagram) Reference: wellhead ☒ other ☐
 Footage from reference: 42'
 Direction from reference: 20 Degrees ☒ East North ☒
 West South ☐

Depth to Ground Water: 75 Less than 50 feet (20 points)
 (vertical distance from ☒ 50 ft to 99 feet (10 points)
 contaminants to seasonal ☐ Greater than 100 feet (0 points) 10
 highwater elevation of
 ground water)

Wellhead Protection Area: RECEIVED
 (less than 200 feet from a private AUG - 8 1995
 domestic water source, or: less than ☒ Yes (20 points)
 1000 feet from all other water sources ☐ No (0 points) 0

Distance to Surface Water: OIL CON. DIV.
 (Horizontal distance to perennial DIST. 3
 lakes, ponds, rivers, streams, creeks, ☒ Less than 200 feet (20 points)
 irrigation canals and ditches.) ☐ 200 feet to 1000 feet (10 points)
☐ Greater than 1000 feet (0 points) 0

PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 7/27/93 Dated Completed: 12/7/93

Excavation X Approx. cubic yards 53
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 8/11/94. The landfarm tested clean on 12/7/93. 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 5 feet from surface

Sample date 8-11-94 Sample time -

Sample Results

Benzene (ppm) -

Total BTEX (PPM) -

Field Headspace (ppm) 27

TPH 236

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 8/2/95

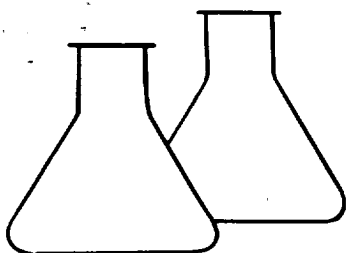
PRINTED NAME Ed Hasely

SIGNATURE

Ed Hasely

and TITLE

Environmental Engineer



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Landfarm #1 Composite	Date Sampled:	12-07-93
Laboratory Number:	6634	Date Received:	12-07-93
Sample Matrix:	Soil	Date Analyzed:	12-08-93
Preservative:	Cool	Date Reported:	12-08-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	109	10.0

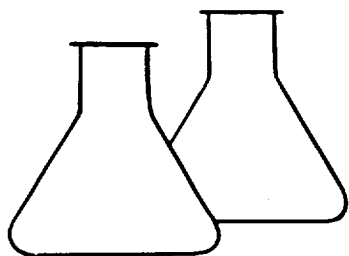
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: SJ-29-6 #98

Tony Tristano
Analyst

Devin L. Jensen
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Landfarm #2 Composite	Date Sampled:	12-07-93
Laboratory Number:	6635	Date Received:	12-07-93
Sample Matrix:	Soil	Date Analyzed:	12-08-93
Preservative:	Cool	Date Reported:	12-08-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	47.2	10.0

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: SJ-29-6 #98

Tony Tristano
Analyst

Devin L. Clemen
Review

PHILLIPS PETROLEUM SURFACE IMPOUNDMENT CLOSURE RESULTS

1994

--ENVIROTECH, INC.--

REVISED DATE: SEPTEMBER 29, 1994 (CIC)													STATUS
PIT NO.	WELL NAME	DEPTH TO WATER (ft)	NMOC SCORE	TPH STD (ppm)	PIT CTR. FROM WELLHEAD	SAMPLE DATE	SAMPLE LOCATION	OVN PPM	TPH (ppm)	EPA METHOD 8020 (PPB) Benzene	TOT. BTX	PERMANENT CONDITIONAL BEDROCK PERMANENT	
PA041	SAN JUAN 29-6 #98	75	10	1000	42' @ N20E	8-11-94	N @ 3.5'	8				PERMANENT	
							E @ 3.5'	4					
							S @ 3.5'	6					
							W @ 3.5'	27	236				
							BOTTOM @ 5'	5					
PA058	SAN JUAN 29-6, #55A	40	20	100	60' @ S30W	8-10-94	N SIDE @ 13'	5				CONDITIONAL	
							E SIDE @ 13'	21					
							S SIDE @ 13'	14					
							W SIDE @ 13'	519	5000				
							C BOTTOM @ 14'	417					
PA077	SAN JUAN 29-6 #99	107	0	5000	40' WEST	8-11-94	N @ 6'	154				PERMANENT	
							E @ 6'	328	1740	ND			
							S @ 6'	295			84		
							W @ 6'	179					
							BOTTOM @ 8'	135					
PA084	SAN JUAN 29-6 #35	120	0	5000	45' N45W	8-12-94	N @ 16'	10				PERMANENT	
							E @ 16'	23					
							S @ 16'	90					
							W @ 16'	51					
							BOTTOM @ 17'	505	1700	ND	22,350		
PA085	SAN JUAN 29-6 #6-21	<100	10	1000	30' @ N45W	8-12-94	N @ 10'	561				PERMANENT	
							E @ 10'	379					
							S @ 10'	646	410	ND	2,077		
							W @ 10'	17					
							BOTTOM @ 11.5'	340					
PA119	SAN JUAN 29-6 #14a	160	0	5000	50' @ N60W	8-16-94	N @ 12'	16				CONDITIONAL	
							E @ 13'	336					
							S @ 13'	802	264				
							W @ 12'	184					
							BOTTOM @ 14'	324					
							BOTTOM @ 18'	278		39300	153,900		
PA120	SAN JUAN 29-6 #12A	90	10	1000	60' @ N15E	8-18-94	N @ 11'	326				PERMANENT	
							E @ 10'	449					
							S @ 11'	424					
							W @ 11'	562	110	61	275		
							BOTTOM @ 13'	491					

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA0415796 US HWY. 64. FARMINGTON, NM 87401
(505) 632-0615C.O.C. NO:

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163PAGE No: 1 of 1LOCATION: LEASE: SAN JUAN 29-6 WELL #: 98 PIT: SEP
UNIT: K SEC: 26 TWP: 29N RNG: 6W BM: NM CNTY: RA ST: NM
CONTRACTOR: QIMARRONDATE STARTED:
DATE FINISHED: 11 Aug 94
ENVIRONMENTAL
SPECIALIST: FMSOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 48 FT. x 5 FT. DEEP.DISPOSAL FACILITY: LAND FARM - ON SITELAND USE: RANGEFEE = LEASEFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 42' FEET N20E FROM WELLHEAD.DEPTH TO GROUNDWATER: 75 NEAREST SURFACE WATER: >1000 NEAREST WATER SOURCE: >1000NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

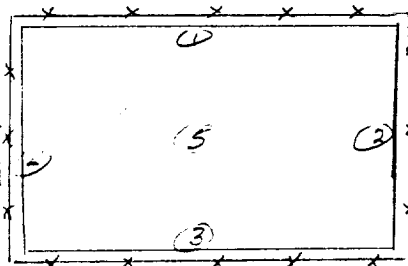
Soil is yellow-brown, slightly moist, clayey sand

FIELD 4181 CALCULATIONS

SAMPLE ID.	LAB No.	WEIGHT (g)	IML	FREQ	DILUTION	READING	CALC. ppm
40 3 1/2'	CAC653	10	20	1	118	236	

1 CM = 10'
SCALE

0

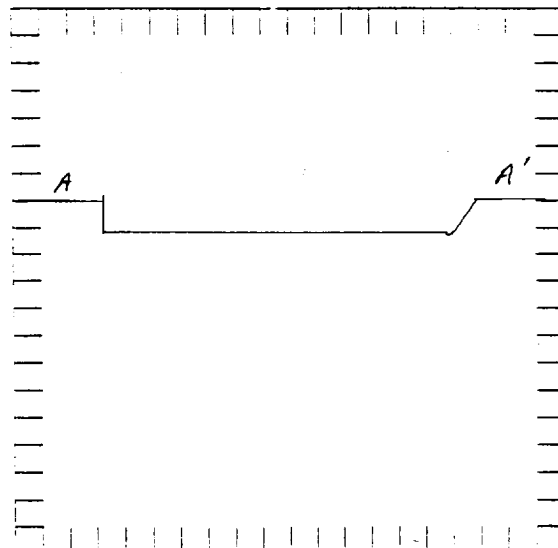
FEET
PIT PERIMETER

STEEL TANK (PIT)

TO
WELL HEADOVM
RESULTS

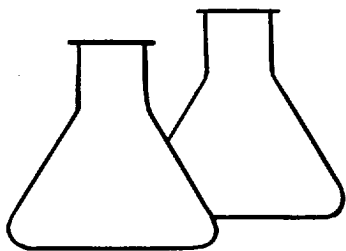
SAMPLE	FIELD HEADSPACE
3	210 (100m)
N 10 3/4'	7.5
E 20 3/4'	4.0
S 30 3/4'	5.8
W 40 3/4'	26.8
Btm 50 5'	5.2

PIT PROFILE



TRAVEL NOTES:

CALLOUT: ONSITE:



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FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Phillips Petroleum
Sample ID: 4 @ 3.5'
Project Location: San Juan 29-6 #98
Laboratory Number: GAC0653

Project #: 93163
Date Analyzed: 8-11-94
Date Reported: 8-11-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	236	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 PA041

Analyst

Maris S. Young

Review

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY
REVISED DATE: JULY 16, 1993

1993

ENVIROTECH, INC.

REVISED DATE: JULY 10, 1993														HEU					
PIT NO.	WELL NAME	U-S-T-R	PIT TYPE	RANK SCORE	CLOSURE STANDARD TPH (PPM)	DATE 1993	GROUNDWATER ENCOUNTERED Sub-Surf. Depth	SOIL TYPE	PIT TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Total Recoverable Pet. Hydro. (PPM)	EPA METHOD 8020 (PPB)					TOTAL BIEX	STATUS
													METHOD 5030 PURGE-AND-TRAP						
													Benzene	Toluene	Ethyl Benzene	Xylene			
PA039	SAN JUAN 29-6, #85	M272906	SEP	0	5000	7-09	NO	SM	EARTHEN	T1-7	533							TEST	
										T1-13	423								
										T1-17	87	9.1	0	67	0	27	94		
PA040	SAN JUAN 29-6, #43-26	G262906	SEP	10	1000	7-09	NO	SC	EARTHEN	T1-8	0	0						CLOSE	
PA041	SAN JUAN 29-6, #98	K262906	SEP	10	1000	7-09	NO	CL	EARTHEN	T1-7.5	1.2	7.5						CLOSE	
PA042	SAN JUAN 32-8, #15	M243108	SEP	0	5000	7-12	NO	SC	EARTHEN	T1-3.5	0.5	8.8						CLOSE	
							↑			T1-6	1.1								
PA043	SAN JUAN 32-8, #20 NP	L043108	SEP			7-12	NO	SM/CL	EARTHEN	T1-1.5	0.8	0						CLOSE	
PA044	SAN JUAN 32-8, #25-33	B333208	SEP			7-12	NO	SM/SC	EARTHEN	T1-1	0.5	13.5						CLOSE	
PA045	SAN JUAN 32-8, #30-27	M273208	SEP			7-12	NO	SM	EARTHEN	T1-1.5	0.8	10.1						CLOSE	
										T1-4									
PA046	SAN JUAN 32-7, #58	G183207	SEP			7-12	NO	OH/CL	EARTHEN	T1-5	1858							REM	
										T1-7	691	66							
										T1-13	100								
										T2-6	2.1								
										T2-11	1.1								
										T2-13	1.1								
PA047	SAN JUAN 32-7, #43	B213207	SEP	20	100	7-12	NO	OH/CL	EARTHEN	T1-5	229	9.1						TEST	
										T1-10	2.8								
PA048	SAN JUAN 32-7, #5	H083107	SEP	20	100	7-12	NO	SM	EARTHEN	T1-2.5	1.1	0						CLOSE	
										T1-5	0	0							
PA049	SAN JUAN 32-7, #5	H083107	BLOW	20	100	7-12	NO	SP	EARTHEN	T1-3.5	0	335						REM	
PA050	SAN JUAN 29-5, #106 PM	K252905	SEP	0	5000	7-13	NO	CL/GM/SM	EARTHEN	T1-7	607	610						TEST	
										T1-10	617								
										T2-5	5								
										T2-11	18.6								
PA051	SAN JUAN 30-5, #4	B353005	SEP	10	1000	7-13	NO	CL	EARTHEN	T1-1.5	2	17.1						CLOSE	
										T1-4	2.4								
PA052	SAN JUAN 30-5, #11	L233005	SEP	10	1000	7-13	NO	SM	EARTHEN	T1-5	14	6.5						CLOSE	
PA053	SAN JUAN 30-5, #32-26	K263005	SEP	0	5000	7-13	NO	SM	EARTHEN	T1-4	1.3	17.1						CLOSE	
PA054	SAN JUAN 30-5, #8-11	B113005	SEP	10	1000	7-13	NO	SC	EARTHEN	T1-0.5	0	5.6						CLOSE	
										T1-3	0								

REF ID: A6808

93163

F-3E No: 1 of 1

PROJECT. PIT ASSESSMENT

CLIENT: PHILIP

CONTRACTOR: ENVIROTECH, INC.

EQUIPMENT USED: EXTENSOMETER

C-TE STARTED: 7-9-93

E-TE FINISHED: 7-5-00

EMPO SPCLT CC

OPERATOR: CFMorton

ASSISTANT:

LOCATION: LEASE: SJ 29-6 WELL: D 98 QD: 1350's 1850' W (K)

SEC: 26 TWP: 29N RNG: 6W PM: NM CNTY: RA ST: NM PIT: S

LAND USE: *Range*

FEE LEASE

SURFACE CONDITIONS: DM to Moist Pit Surface

FIELD NOTES & REMARKS: PIT, IS LOCATED APPROXIMATELY 42' FEET NE OF WELLHEAD.

CLOSURE STD: 1000 ppm TPH

Pit 30' x 48' x $\frac{4\frac{1}{2}}{2}$ ' Deep

RANKING SCORE: 10

V. wet x Black Down Surface to 1 foot, then Gray/2-5 in clay

5/24/22

7 $\frac{1}{2}$ ' - ^{Blown} Green Sandy Clay - V. lite odor
SAMPLE FOR LAB 418.1 @ 1453

SAMPLE FOR Lab 418.1 @ 1453

SAMPLE INVENTORY

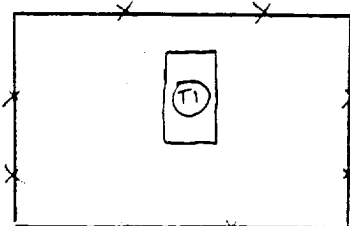
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SCALE

0 3 6 FEET

SITE DIAGRAM

OFFICE DIAGRAMS



TANK

well

57-125-0000

TH=

 $TH =$

III.

TH=

Ground S. 2a

1000 1000 1000

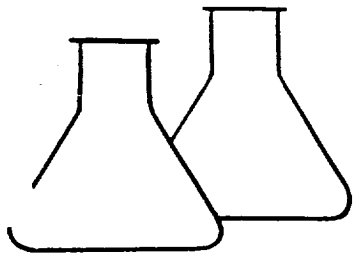
316-21

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NO.	SMPL	QTY
TYPE	TYPE	PER

Pit Bottom

CL GRE 1.2



ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips	Project #:	93163
Sample ID:	TH 1 @ 7 1/2'	Date Sampled:	07-09-93
Laboratory Number:	5664	Date Received:	07-09-93
Sample Matrix:	Soil	Date Analyzed:	07-15-93
Preservative:	Cool	Date Reported:	07-15-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	7.5	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 98, Separator, PA041.

An Chahonky
Analyst

Maria D. You
Review ✓

7/26
55x40x6
Black Soil