

District I

P.O. Box 1980, 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 DepartmentOIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO

APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

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 29-6 Unit #50

Well Name

Location: Unit or Qtr/Qtr Sec SWNE Sec 36 T 29N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator Other Condensate Tank

Land Type: BLM State X Fee Other

Pit Location: (Attach diagram) Pit dimensions: Length 25', width 25', depth 4'

Reference: wellhead X, other

Footage from reference: 60

Direction from reference: 45 Degrees East North
of
X West South X

Depth to Ground Water: 80
(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

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

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

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

Distance to Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches.)

<u> </u>	Less than 200 feet	(20 points)	
<u>X</u>	200 feet to 1000 feet	(10 points)	
<u> </u>	Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 10

PITCFRM.WK3

RECEIVED
AUG - 7 1995
OIL CON. DIV.
DIST. 3

Pulled
C-134

Hydrocarbon

Date Remediation Started: 8/24/93 Dated Completed: 9/19/94

Excavation X Approx. cubic yards 61

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 6 ft below the original pit bottom. The soils were landfarmed on location. The excavation tested clean on 8/12/94. The landfarm tested clean on 9/19/94. 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 10 ft from surface

Sample date 8/12/94 Sample time -

Sample Results

Benzene (ppm) -

Total BTEX (PPM) -

Field Headspace (ppm) 34

TPH 38

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 8/1/95 PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM SURFACE IMPOUNDMENT LANDFARM RESULTS

1994

---ENVIROTECH, INC.---

REVISED DATE: OCTOBER 28, 1994 (CIC)

PIT NO.	WELL NAME	DEPTH TO WATER (ft)	NMOC SCORE	TPH STD (ppm)	SAMPLE DATE	SAMPLE LOCATION	OVN PPM	TPH (ppm)	EPA METHOD 8020 (PPB) Benzene	TOT. BTEX	STATUS
PA124	SAN JUAN 29-6, #11A	>100	0	5000	10-4-94	C-1	0.0	27			CLOSE
PA076	SAN JUAN 29-6, #25A	55	10	1000	9-19-94	C-1	18	2,060			REMEDIA TE
PA006	SAN JUAN 29-6, #50	<100	10	1000	9-19-94	C-1	0	22			CLOSE
PA035	SAN JUAN 29-6, #58A	40	20	100	10-4-94	C-1	3.0	118			REMEDIA TE
PA035	SAN JUAN 29-6, #58A	40	20	100	10-4-94	C-2	0.0	70			CLOSE
PA112	SAN JUAN 29-6, #89	<50	20	100	10-5-94	C-1	6.0	1,234			REMEDIA TE
PA003	SAN JUAN 29-6, #95	<100	10	1000	9-19-94	C-1	15	200			CLOSE
PA003	SAN JUAN 29-6, #95	<100	10	1000	9-19-94	C-2	29	460			CLOSE
PA099	SAN JUAN 29-6, #103	<100	10	1000	10-5-94	C-1	20.0	6,966			REMEDIA TE
PA136	SAN JUAN 30-5, #47	<100	10	100	9-20-94	C-1	23	6,240			REMEDIA TE
PA021	SAN JUAN 30-5, #78	<50	20	100	9-20-94	C-1	1	96			CLOSE
PA020	SAN JUAN 31-6, #50	85	10	1000	9-22-94	C-1	17	1,760			REMEDIA TE
PA212	SAN JUAN 32-7, #6 FR/PC	45	20	100	10-3-94	C-1	17.0	1,043			REMEDIA TE
PA047	SAN JUAN 32-7, #43	<100	20	100	9-9-94	C-1	0	36			CLOSE
PA216	SAN JUAN 32-7, #46 PC	>100	0	5000	9-21-94	C-3	4	24			CLOSE
PA216	SAN JUAN 32-7, #46 PC	>100	0	5000	9-21-94	C-1	27	38			CLOSE
PA216	SAN JUAN 32-7, #46 PC	>100	0	5000	9-21-94	C-2	12	32			CLOSE
PA220	SAN JUAN 32-7, #47 PC	>100	0	5000	9-9-94	C-1	506	104	50.0	223	CLOSE
PA220	SAN JUAN 32-7, #47 PC	>100	0	5000	9-9-94	C-2	5	54			CLOSE
PA224	SAN JUAN 32-7, #48	>100	0	5000	9-9-94	C-1	20	564			CLOSE
PA225	SAN JUAN 32-7, #49	>100	0	5000	9-9-94	C-1	17	3,400			CLOSE
PA213	SAN JUAN 32-7, #50	340	0	5000	10-3-94	C-2	60.0	87			CLOSE
PA213	SAN JUAN 32-7, #50	340	0	5000	10-3-94	C-1	222.0	163	364.0	5,474	CLOSE
PA221	SAN JUAN 32-7, #51 PC	180	0	5000	10-3-94	C-1	16.0	3,650			CLOSE
PA211	SAN JUAN 32-7, #52 PC	>100	0	5000	9-9-94	C-2	20	84			CLOSE
PA211	SAN JUAN 32-7, #52 PC	>100	0	5000	9-9-94	C-1	9	78			CLOSE
PA222	SAN JUAN 32-7, #53 PC	280	0	5000	10-3-94	C-1	8.0	31,337			REMEDIA TE
PA198	SAN JUAN 32-7, #56 DK	160	0	5000	9-18-94	C-1	45	604			CLOSE
PA208	SAN JUAN 32-7, #57 DK	>100	0	5000	9-8-94	C-1	34	5,860			REMEDIA TE
PA209	SAN JUAN 32-7, #60 DK	>100	0	5000	9-8-94	C-1	86	2,200			CLOSE
PA203	SAN JUAN 32-7, #62 DK	100	0	5000	9-8-94	C-1	49	764			CLOSE
PA204	SAN JUAN 32-7, #63 DK	>100	0	5000	9-8-94	C-1	46	5,420			REMEDIA TE
PA214	SAN JUAN 32-7, #68 DK	150	0	5000	10-3-94	C-1	16.0	537			CLOSE
PA223	SAN JUAN 32-7, #80 PC	235	0	5000	10-3-94	C-1	10.0	19,550			REMEDIA TE
PA176	SAN JUAN 32-8, #49 MV	250	0	5000	9-21-94	C-1	106	66	ND	168	CLOSE

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 622-0615

PIT No: PA 006
C.O.C. #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 #50

DATE STARTED: 9/18/94
DATE FINISHED: 9/19/94

SOURCE LOCATION: _____

SOURCE LOCATION: _____

SOURCE LOCATION: _____

ENVIRONMENTAL
SPECIALIST: CJC

FACILITY CLASSIFICATION: Site - 29-6 Sep

SOIL REMEDIATION QUANTITY: 61 yds. = OF COMP. SAMPLES: 1

DIMENSIONS: 39 x 84 x .5

VISIBLE OBSERVATIONS: Clay, tan, brown, dry, no odor

SAMPLING PLAN: _____

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 65 YARDS WNW FROM WELLHEAD.

DEPTH TO GROUNDWATER: < 100

NEAREST WATER SOURCE TYPE: NA

NEAREST SURFACE WATER: NA

MAX TPH PER NMOC: 1000

No. OF 5-POINT

COMPOSITE SAMPLES:

1-300 = 1

301-400 = 2

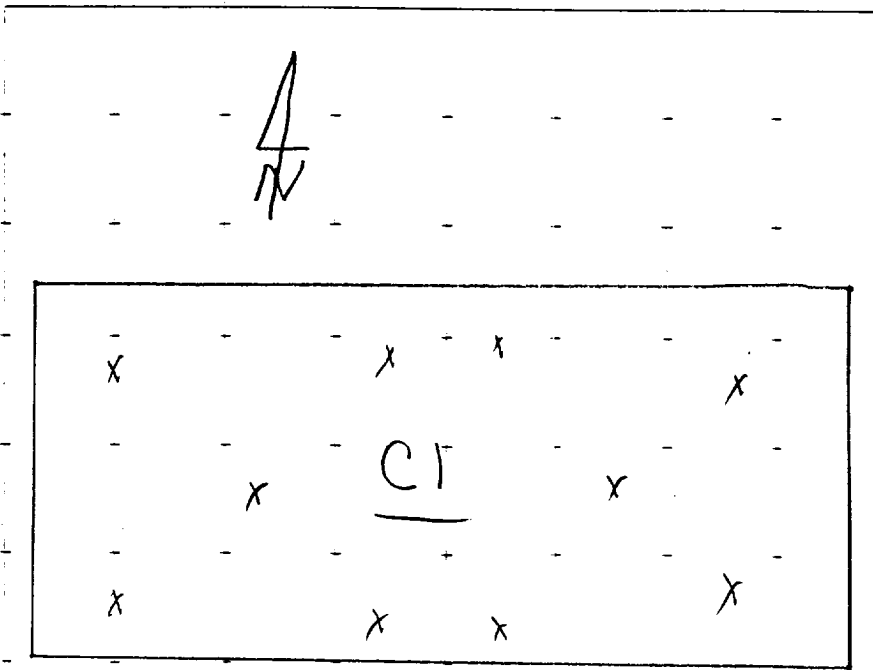
401-1000 = 3

1000 = 5

CI: $11 \times 2 = 22$ ppm TPH GAC

FACILITY DIAGRAM

GRID SCALE $1" = 20'$



OWN RESULTS

SAMPLE FIELD ANALYSIS RESULTS

CI 0.0

LAB RESULTS

SAMPLE ANALYSIS RESULTS

GAC

CI TPH 22

769

4

NORTH

X

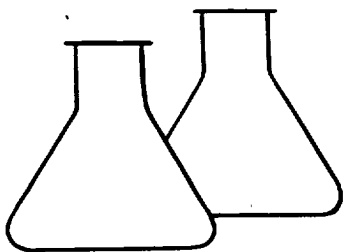
WELL-HEAD

4

SURFACE
FLOW

C

ESTIMATED
GROUNDWATER
FLOW



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
Sample ID: C1
Project Location: San Juan 29-6 # 50
Laboratory Number: GAC0769

Project #: 93163
Date Analyzed: 9-19-94
Date Reported: 9-26-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	44	10

ND = Not Detectable at stated detection limits.

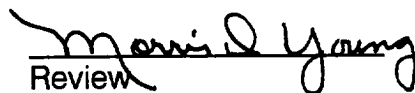
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	126	142	12

*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 PA006


Analyst


Review

PHILLIPS PETROLEUM SURFACE IMPOUNDMENT CLOSURE RESULTS

1994

--ENVIROTECH, INC.--

REVISED DATE: SEPTEMBER 29, 1994 (CJC)

PIT NO.	WELL NAME	DEPTH TO WATER (ft)	NMOC SCORE	TPH STD (ppm)	PIT CTR. FROM WELLHEAD	SAMPLE DATE	SAMPLE LOCATION	OVUM PPM	TPH (ppm)	EPA METHOD 8020 (PPB) Benzene	TOT. BTEX	STATUS
PA001	SAN JUAN 29-6, #7A	60	10	1000	65' @ S45E	8-9-94	N SIDE @ 14'	4				PERMANENT
							E SIDE @ 12'	4				CONDITIONAL
							S SIDE @ 12'	26				
							W SIDE @ 15'	176				
							C BOTTOM @ 17'	376	6040	ND	1,131	
PA003	SAN JUAN 29-6 #95	< 100	10	1000	45' @ 320W	8-11-94	N SIDE @ 9'	2				PERMANENT
							E SIDE @ 9'	4				
							S SIDE @ 9'	25	44			
							W SIDE @ 9'	2				
							BOTTOM @ 10'	2				
PA004	SAN JUAN 29-6 #52A	60	10	1000	65' @ N20W	8-11-94	N SIDE @ 11'	74				PERMANENT
							E SIDE @ 11'	171				
							S SIDE @ 11'	511				
							W SIDE @ 11'	118				
							BOTTOM @ 12'	520	28	ND	4,829	
							BOTTOM @ 15'	430				
PA005	SAN JUAN 29-6 #48-35	45	20	100	4' @ N20E	8-11-94	N @ 13'	17				CONDITIONAL
							E @ 13'	285				
							S @ 13'	526	2940			
							W @ 13'	116				
							BOTTOM @ 14'	3				
PA006	SAN JUAN 29-6 #50	80	10	1000	60' @ S45W	8-12-94	N @ 9'	2				PERMANENT
							E @ 9'	3				
							S @ 9'	4				
							W @ 9'	2				
							BOTTOM @ 10'	34	38			
PA021	SAN JUAN 30-5 #78	79	20	100	65' SOUTH	8-17-94	N @ 8'	1				PERMANENT
							E @ 7'	1				
							S @ 7'	1				
							W @ 7'	1				
							BOTTOM @ 9'	1	50			
PA035	SAN JUAN 29-6, #58A	40	20	100	60' @ N60E	8-10-94	N SIDE @ 8'	6				PERMANENT
							E SIDE @ 8'	97	68			
							S SIDE @ 7'	2				
							W SIDE @ 7'	1				
							C BOTTOM W @ 8'	2				
							C BOTTOM E @ 9'	9				

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PAC065796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615C.O.C. NO: 7

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163PAGE No: 1 of 1

150' FNL LOCATION: LEASE: SAN JUAN 27-6 WELL #: 50 PIT: SEP
790' FEL UNIT: H SEC: 36 TWP: 29N RNG: 6W BM: NM CNTY: RA ST: NM
CONTRACTOR: P. MARREN

DATE STARTED: 12 Aug 94
DATE FINISHED: 12 Aug 94ENVIRONMENTAL
SPECIALIST: FMSOIL REMEDIATION: EXCAVATION APPROX. 25 FT. x 25 FT. x 10 FT. DEEP.DISPOSAL FACILITY: Land Farm - DN SiteLAND USE: RANGE LEASE NO. E-289FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 60 FEET S45°W FROM WELLHEAD.DEPTH TO GROUNDWATER: 80' NEAREST SURFACE WATER: >1000 NEAREST WATER SOURCE: >1000NMOC RANKING SCORE: 10 NMOC TPH CLOSURE STD: 1000 PPMSOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown, moist, silty sand w/
some silty clay.

Odor @ Bottom

FIELD #18.1 CALCULATIONS

SAMPLE NO.	LAB No:	WEIGHT (g)	1mL	FREQ	DILUTION	READING	CALC.	COM
5010'	CAC656	10	20	1	19	33		

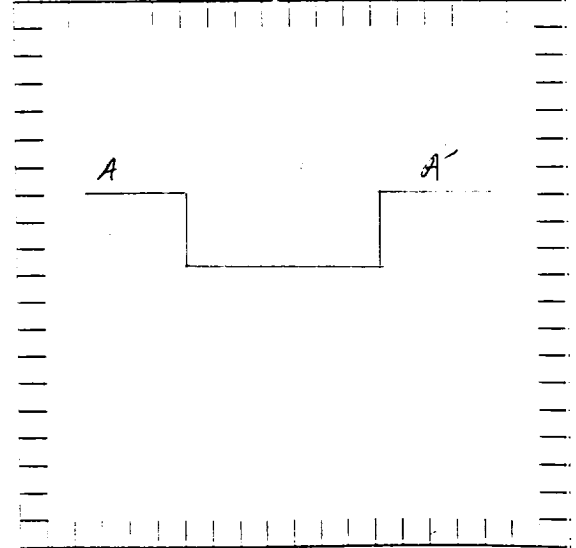
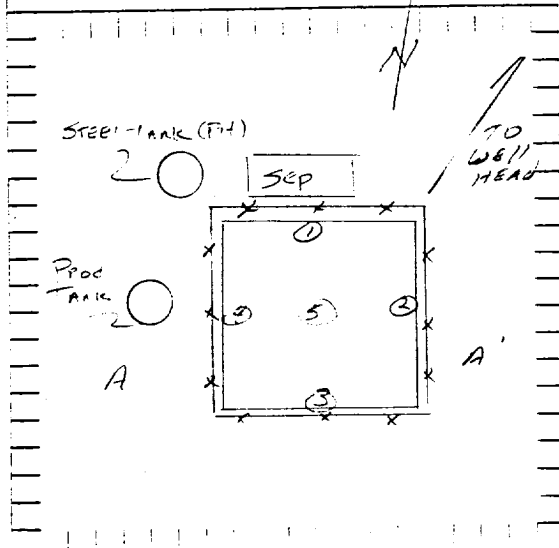
1cm = 10'
SCALE

0

FEET
PIT PERIMETEROVM
RESULTS

SAMPLE	FIELD HEADSPACE
N 129'	1.8
G 209'	3.1
S 329'	4.3
W 409'	2.2
BM 5010'	33.9

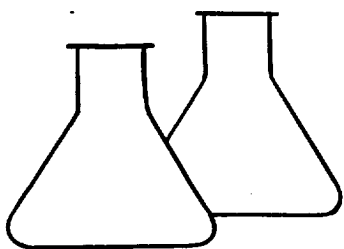
PIT PROFILE



TRAVEL NOTES:

CALCULATIONS:

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:	5 @ 10'	Date Analyzed:	8-12-94
Project Location:	San Juan 29-6 #50	Date Reported:	8-12-94
Laboratory Number:	GAC0656	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	38	10

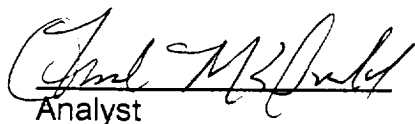
ND = Not Detectable at stated detection limits.

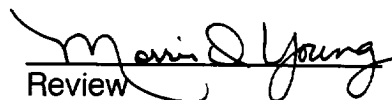
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	11,000	12,600	14

*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 PA006


Analyst


Review

PIT NO	WELL NAME	PIT TYPE	RANK SCORE	CLOSURE STANDARD TPH (PPM)	DATE 1993	GROUNDWATER ENCOUNTERED Sub-Surf. Depth	SOIL TYPE	PIT TYPE	SAMPLE NO.	Organic Vapor Measr (PPM)	Total Recoverable Petr. Hydro. (PPM)	EPA METHOD 8020 (PPB)					TOTAL BTEX	STATUS
												Benzene	Toluene	Ethyl Benzene	Xylene			
PA001	SAN JUAN 29-6, #7A	U S T-R SEP / RANK	10	1000	6-29	NO	SC	EARTHEN	T1-10 T1-13 T2-11	725 280 2.2	1940						REM	
PA002	SAN JUAN 29-6, #7A	RES/BL OW	10	1000	6-29	NO	SC/SP	EARTHEN	T1-7	0							CLOSE	
PA003	SAN JUAN 29-6, #95		10	1000	6-29	NO	CL/SC	EARTHEN	T1-9 T1-12	493 483		184	0	67	24.1	296	TEST	
PA004	SAN JUAN 29-6, #52A		10	1000	6-29	NO	CL/SC	EARTHEN	T1-10 T2-8	419 13.4	380	640	39900	6200	59000	105740	REM	
PA005	SAN JUAN 29-6, #48-35		20	100	6-29	NO	CL/SP/SM	EARTHEN	T1-10.5 T1-12.5 T2-5 T2-9	442 323 67.2 122.6	12800						REM	
PA006	SAN JUAN 29-6, #50		10	1000	6-30	NO	SM/SC	EARTHEN	T1-14 T1-16 T1-18 T2-15	581 781 742 137		300					TEST	
PA007	SAN JUAN 29-6, #101		10	1000	6-30	NO	SC/SM	EARTHEN	T1-8	58.3	740						CLOSE	
PA008	SAN JUAN 29-5, #41-31		20	100	6-30	NO	SM/SC	EARTHEN	T1-14 T1-19 T2-10 T2-14.5	574 775 5.3 1055		1100					REM	
PA009	SAN JUAN 29-5, #37-31		10	1000	7-01	NO	CL/SC	EARTHEN	T1-8 T2-8	516 0	57	0	3000	136	140.3	3276.3	CLOSE	
PA010	SAN JUAN 29-5, #53		20	100	7-01	NO	CH	EARTHEN	T1-4 T1-8.5	1.9 0.8	18						CLOSE	
PA011	SAN JUAN 29-5, #36		10	1000	7-01	NO	CH	EARTHEN	T1-4 T1-7	1.5 1.9	12						CLOSE	
PA012	SAN JUAN 29-5, #89		20	100	7-01	NO	SM	EARTHEN	T1-12 T1-18	472 512	1200	87	235	3100	4230	7652	REM	
PA013	SAN JUAN 29-5, #88		0	5000	7-01	NO	SC/SM	EARTHEN	T1-10 T1-16	447 402	1100	15.5	202	6800	7130	14147.5	TEST	
PA014	SAN JUAN 29-5, #46-21		10	1000	7-02	NO	CH/SC	EARTHEN	T1-4.5 T1-7	0.9 2	0						CLOSE	
PA015	SAN JUAN 29-5, #24-17		10	1000	7-02	NO	CL/CH/SC	EARTHEN	T1-4 T1-6.5 T1-11.5	3.9 13.2 76	12	0	70	13.4	86	169.4	CLOSE	
PA016	SAN JUAN 29-5, #20 MV		20	100	7-02	NO	SC/SM	EARTHEN	T1-6.5 T1-11.5 T1-17.5 T2-5 T2-14	604 322 233 1.3 1.3	1320	940	59700	13600	102500	176740	REM	
PA017	SAN JUAN 29-6, #10 MV		10	1000	7-06	NO	CL/SM	EARTHEN	T1-5 T1-8	652 3.6	1940	0	9200	4350	63800	77350	REM	

PA 006

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163

PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE

CLIENT: PHILLIPS

CONTRACTOR: ENVIROTECH. INC.

EQUIPMENT USED: EXTEND A HOE BACK HOE

DATE STARTED: 6-30-43

DATE FINISHED: 5-20-97

ENVIRO. SPCLT: 185

OPERATOR: Chapman

ASSISTANT:

LOCATION: LSE: SAN JUAN 29-6 WELL: UNIT # 50 QD: 1650' FNL, 990' FEL (H)
SEC: 36 TWP: 29 N RNG: 6 W PM: NM CNTY: RIO ARriba ST: NM PIT: SEP

LAND USE: RANGE - LEASE E-289

SURFACE CONDITIONS: EARTHEN PIT

FIELD NOTES & REMARKS: PIT IS LOCATED APPROX 60' S 45°W OF WELLHEAD
CLOSURE STD: <1000 PPM TP4 T1: MOIST, BROWN, SILTY SAND, FIRM.
RAIL SCORE = 10 ? WASH APPROX. 75' SOUTHEAST OF PIT.

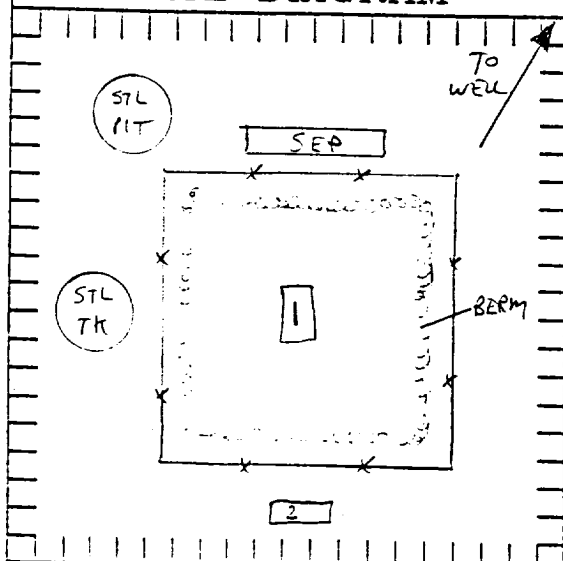
FIELD 418.1 - TPI
GAC 0082

SCALE



0 5 10 FEET

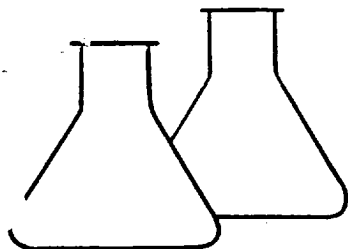
SITE DIAGRAM



TEST HOLE LOGS:

TH #:			
SOIL TYPE:	SMPL TYPE:	OVM TYPE:	TPH
2			
4	. PIT BOTTOM		
6	SM		ODR
8			↓
10			
12			
14	SM	GRAB	581
16	SC	GRAB	781
18	SM	GRAB	742
20	TD = 18'		
22			

SOIL TYPE: C - Clay, M - SIL, S - Sand, G - Gravel Planting: L - Lemon, H - Pileole Grading: P - Pearls, V - Vines



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	Project #:	93163
Sample ID:	T1 @ 18' bgs	Date Analyzed:	06-30-93
Project Location:	San Juan 29-6 Unit 50	Date Reported:	07-06-93
Laboratory Number:	GAC0082	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	300	10

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

Comments: Separator Pit PA006

R. E. O'Neil
Analyst

Marvin Young
Review