

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

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

Facility Or: San Juan 29-6 Unit #93

Well Name

Location: Unit or Qtr/Qtr Sec ^{NW} ^{NE} Sec 16 T 29N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other DECENT

Land Type: BLM, State ☒, Fee ☐, Other ☐ JAN 3 11

RECEIVED
JAN 31 1995

OIL CON. DIV.

DIST. 3

Pit Location: Pit dimensions: Length 25', width 25', depth 3' **DIST. 3**
(Attach diagram)

Reference: wellhead ☒ , other ☐

Footage from reference: 40

Direction from reference: 60 Degrees X East North _____
of
West South X

Depth to Ground Water:	<u>59'</u>	<u> </u>	Less than 50 feet	(20 points)	
(vertical distance from		<u>X</u>	50 ft to 99 feet	(10 points)	
contaminants to seasonal		<u> </u>	Greater than 100 feet	(0 points)	<u>10</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).

_____	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.)				

PJTCFRM.W'K3

RANKING SCORE (TOTAL POINTS): 10

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

Because of bedrock 2 feet below the pit we were unable to sample deeper.
The initial assessment showed soils to be clean at the surface and at
two feet 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 2' below pit bottom

Sample date 11/19/93 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 20

TPH 660

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 1/30/95 PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY

1993

ENVIROTECH, INC.

REVISED DATE: NOVEMBER 22, 1993

REC

PIT NO.	WELL NAME	PIT TYPE	RANK SCORE	CLOSURE STANDARD (PPM)	DATE 1993	GROUNDWATER MONITORED Sub-Surface	SOIL TYPE	PIT TYPE	SAMPLE NO.	Organic Vapor Index (TVI)	Total		EPA METHOD 8020 (PPB)					STATUS
											Benzenes	THM	Benzenes	Toluene	Ethyl Benzenes	Xylene	TOTAL BTEX	
PA087	SAN JUAN 28-0, #73A	SEP	10	1000	11-11	NO	CL/SP	EARTHEN	T1-4 T1-6.5	3.8 5	12							CLOSE
PA088	SAN JUAN 28-0, #74A	SEP	10	1000	11-11	NO	CL/SP/SM	EARTHEN	T1-7 T1-12 T1-16 T2-13	609 820 1124 0	7200 4600 2800 10							REM
PA089	SAN JUAN 28-0, #41-24	SEP	0	5000	11-17	NO	CL	EARTHEN	T1-4.5 T1-7	41 2047								REM
PA090	SAN JUAN 28-0, #80	SEP	0	5000	11-17	NO	CL/SP	EARTHEN	T1-4 T1-6.5	40 131	110 1200	2510	26200	2200	50000	88910		CLOSE
PA091	SAN JUAN 28-0, #82	SEP	10	1000	11-17	NO	SC	EARTHEN	T1-5	30	940							CLOSE
PA092	SAN JUAN 28-0, #42-25	SEP	10	1000	11-17	NO	CL	EARTHEN	T1-5.5	721	990	4390	19700	102	7092	31191		CLOSE
PA093	SAN JUAN 28-0, #79	SEP	0	5000	11-17	NO	SM	EARTHEN	T1-4.5 T1-7	597 103	1200	0	419	22	980	990		TEST
PA094	SAN JUAN 28-0, #40-23	SEP	0	5000	11-17	NO	CL	EARTHEN	T1-4.5 T1-7	3.2 609	20	130	800	51	1133	2263		CLOSE
PA095	SAN JUAN 28-0, #75	SEP	0	5000	11-17	NO	CL	EARTHEN	T1-4.5 T1-7	0 0	0							CLOSE
PA096	SAN JUAN 28-0, #27	SEP	0	5000	11-16	NO	CL	EARTHEN	T1-4.5 T1-7	0 0	0							CLOSE
PA097	SAN JUAN 28-0, #83	SEP	0	5000	11-16	NO	CL	EARTHEN	T1-2 T2-2 T3-2	20 0 0	4900 66 20							CLOSE
PA098	SAN JUAN 28-0, #28-13	SEP	0	5000	11-16	NO	SC	EARTHEN	T1-4.5 T1-7	0 2.5	10							CLOSE
PA099	SAN JUAN 28-0, #103	SEP	10	1000	11-16	NO	SC/SM	EARTHEN	T1-1.5 T2-2	134 2.5	16100 0	310	0	700	11900	18818		REM
PA100	SAN JUAN 28-0, #84	SEP	10	1000	11-16	NO	CL	EARTHEN	T1-4.5 T1-7	59 758	990	100	2000	167	3090	8909		CLOSE
PA101	SAN JUAN 28-0, #104	SEP	10	1000	11-16	NO	CL	EARTHEN	T1-3.5 T1-6	0 0	0							CLOSE
PA102	SAN JUAN 28-0, #85	SEP	10	1000	11-16	NO	SM	EARTHEN	T1-5	20	990							CLOSE

5796 US HWY. 64. FARMINGTON. NM 87401
(505) 832-0615

C.O.C. NO: ~~SECRET~~

FIELD REPORT: SITE ASSESSMENT

JOB No. 93153
PAGE No. 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: PHILLIPS PETROLEUM
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: CASE EXTEND-A-DIG

DATE STARTED: 11-19-93
DATE FINISHED: 11-19-93
ENVIRON. SPOLT: FE2
OPERATOR: DIMAPRON
ASSISTANT: K.S.

LOCATION: LEASE: SAN JUAN 29-6 WELL: #93 QD: 860' N, 1695' E (B)
SEC: 16 TWP: 29N RNG: 6W PM: NM CNTY: R.A. ST: NM PIT: SEP.
LAND USE: RANGE - LEASE # E-289
SURFACE CONDITIONS: EARTHEN PIT - FENCED 25' x 25'

FIELD NOTES & REMARKS: PIT IS LOCATED APPROXIMATELY 40 FEET S. 60° E. OF WELLHEAD.

CLOSURE STD: 1000 ppm TPH

TI: MOIST, BROWN, SILTY SAND. NO 'OO' OR.

RANKING SCORE: 10

• SAMPLE INVENTORY

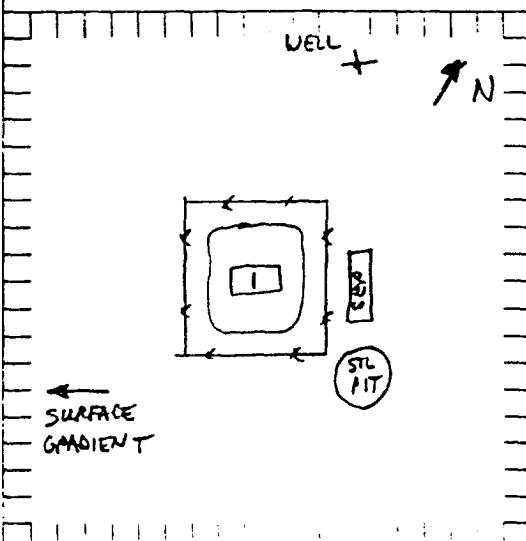
[illegible]

330 x 2 = 660 - 6AC * 0345

SCALE

0 10 20 FEET

SITE DIAGRAM



TEST HOLE LOGS:

	TH#:	SOIL TYPE:	SMPL TYPE:	OVM, TPH
1				
2				
3				PIT Bottom
4				
5				SM GGS 20
6				TD = 5'
7				BED ROCK
8				
9				
10				
12				
14				
16				
18				

SOIL TYPE: 1 - Clay, 2 - Silty, 3 - Sand, 4 - Gravel Pilehead: 1 - None, 2 - Single, 3 - Double, 4 - Deep

1000 E. Broadway Rd. Artes, NM 87410

Santa Fe, New Mexico 87504-2088

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

PIT REMEDIATION AND CLOSURE REPORT

Land Type: BLM, State X, Fee , Other

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

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

Lenny E. Frost
DEPUTY OIL & GAS INSPECTOR

Yes (20 points)
No (0 points) 0

_____	Less than 200 feet	(20 points)	
_____	200 feet to 1000 feet	(10 points)	
x _____	Greater than 1000 feet	(0 points)	_____ 0

RANKING SCORE (TOTAL POINTS):

Excavation _____ Approx. cubic yards _____
Landfarmed _____ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: _____ n/a

Because of sandstone we were only able to sample 1' below pit.

Initial assessment showed soils to be clean at surface and
at 1' below pit bottom.

Ground Water Encountered: No ☒ 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 _____ 1' below pit bottom

Sample date _____ 11-11-93 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) _____ 58

TPH _____ 22

Ground Water Sample: Yes _____ No ☒ (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 _____ 1/23/95 PRINTED NAME _____ Ed Hasely

SIGNATURE _____ *Ed Hasely* and TITLE _____ Environmental Engineer

JOB No: 92147
PAGE No: 1 of 1

DATE STARTED: 11-11-93
DATE FINISHED: 11-11-93
ENVIRO. SPILT: RED
OPERATOR: CIMARRON
ASSISTANT: K.C.

FIELD NOTES & REMARKS: FIT IS LOCATED APPROXIMATELY 35 FEET S. 45° E. OF WELLHEAD.

T1: MOIST, BROWN, SAND - SANDSTONE @ 4'. NO COOR.

[illegible]

11 x 2 = 22 • GAC # 0324

0 10 20 FEET

[illegible]

Sat. 7 PM - 9 PM Sun. 4 - 6 PM Mon. 3 - 5 PM Tues. 4 - 6 PM Wed. 4 - 6 PM Thurs. 4 - 6 PM Fri. 4 - 6 PM

1000 Rio Brazos Rd. Aztec, NM 87410

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DEPT. OF JUSTICE
SANTAFE OFFICE

DEPUTY OIL & GAS INSPECTOR

MAR 28 1995

PIT REMEDIATION AND CLOSURE REPORT

RANKING SCORE (TOTAL POINTS): 10

RECEIVED
FEB 21 1935
OIL CON. DIV.

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 assessment showed soils to be clean at the surface and at 3'
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 3' below pit bottom.

Sample date 8-29-94 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

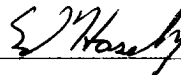
Field Headspace (ppm) 16

TPH 22

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 2/16/95 PRINTED NAME Ed Hasely

SIGNATURE  and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY

1994

ENVIROTECH, INC.

REVISED DATE: SEPT 29, 1994

CJC

PIT NO	WELL NAME	U S T R	PIT TYPE	RANK SCORE	CLOSURE STANDARD (PPM)	DATE	GROUNDWATER PRO CONTINUED Sub Well Depth	SOIL TYPE	SAMPLE NO	Organic Vapor Meter (PPM)	Recoverable Per Hydro (PPM)	EPA METHOD 8020 (PPB)					TOTAL BTEX	STATUS
												METHOD 5030 PURGE - AND - TRAP						
												Benzene	Toluene	Ethyl Benzene	Xylene			
PA220	SAN JUAN 32-7 #47	A35207	SEEP/BLOW	10	1000	07/13/94	NO	CLAY/SLT	T1@ 3.0'	688							CLOSE	
									T1E@ 6.0'	684	142							
									T1W@ 6.0'	681	248							
									T1S@ 6.0'	695	64	ND	97	ND	260	357		
									T1@ 14.0'	677	242							
PA226	SAN JUAN 30-5 #73 DK	B103005	SEEP	0	5000	08/17/94	NO	SHALE	T1@ 7.0'	176	290	43	1130	56	697	1828	CLOSE	
									T1@ 12.0'	396								
PA227	SAN JUAN 30-5 #61 MV	A153005	SEEP	10	1000	08/18/94	NO	CLAY	T1@ 4.5'	15	36						CLOSE	
PA227A	SAN JUAN 28-8 #107	A362908	SEEP	10	1000	08/22/94	NO	CLAY	T1@ 18.0'	490	68	32	96	ND	51	178	CLOSE	
27B	SAN JUAN 28-8 #107	A362908	SEEP	10	100	09/07/93	NO	CLAY	T2@ 4.5'	48	188	ND	ND	ND	ND	ND	CLOSE	
									T2@ 7.0'	345	74						REMEDIAL TO 5.5'	
PA228	SAN JUAN 28-5 #91	B352903	SEEP			08/22/94	NO	SAND	T1@ 5.5'	547	4275						BEDROCK	
									T3@ 3.0'	519	ND							
PA229	SAN JUAN 28-5 #80	N352905	SEEP	0	5000	08/22/94	NO	SANDY CLAY	T1@ 3.5'	158	36	48	183	84	565	880	CLOSE	
									T1@ 8.0'	157								
PA230	SAN JUAN 28-8 NP #86	M022908	SEEP	10	1000	08/23/94	NO	SLTY CLAY	T1@ 8.0'	65	34						CLOSE	
PA231	SAN JUAN 28-5 #103 PC	K042905	SEEP	0	5000	08/23/94	NO	SLTY CLAY	T1@ 4.0'	190	319	33	339	121	1440	1833	CLOSE	
PA232	SAN JUAN 28-8 #114	A072908	SEEP	0	5000	08/23/94	NO	SLTY CLAY	T1@ 4.5'	544	4720	34	76	19	240	368	CLOSE	
									T1@ 7.0'	80	24							
PA233	SAN JUAN 28-5 #71	M162905	SEEP	10	1000	08/29/94	NO	CLAY/SHALE	T1@ 5.5'	0	ND						CLOSE	
									T1@ 8.0'	16	22							
PA234	SAN JUAN 30-5 #89	A333005	SEEP	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	SEEP	0	5000	08/29/94	NO	SNDY SHALE	T1@ 5.5'	0	ND						CLOSE	
PA236	SAN JUAN 28-5 #69	G212905	SEEP	10	1000	08/29/94	NO	SAND/CLAY	T1@ 6.0'	288	359	84	29	91	299	503	CLOSE	
									T1@ 6.0'	386	3360							
37	SAN JUAN 28-5 #75	M222905	SEEP	10	1000	08/30/94	NO	SNDY CLAY	T1@ 11.0'	425	290	54	36			90	REMEDIAL TO 6.0'	
PA238	SAN JUAN 28-5 #70	H282905	SEEP	10	1000	08/30/94	NO	CLAY	T1@ 6.0'	147	20	52	31		76	181	CLOSE	
PA239	SAN JUAN 28-5 #87	C252905	SEEP	10	1000	08/30/94	NO	CLAY/SAND	T1@ 6.0'	486	7560						REMEDIAL TO 14.0'	
									T1@ 11.0'	302	8980						BEDROCK	
									T1@ 14.0'	216	1320							
PA240	SAN JUAN 28-5 #104 PC	B102905	SEEP	10	1000	08/31/94	NO	CLAY	T1@ 0.5'	168	6740	69	93	560	405	1127	REMEDIAL TO 4.0'	
									T1@ 4.0'	140	36							
PA241	SAN JUAN 28-5 #61	H082905	SEEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5'	2	ND						CLOSE	
									T1@ 7.0'	2	12							
PA242	SAN JUAN 28-5 #59	H312905	SEEP	10	1000	08/31/94	NO	CLAY/SAND	T1@ 7.0'	470	5640						REMEDIAL TO 11.0'	
									T1@ 11.0'	84	22						BEDROCK	
PA243	SAN JUAN 28-8 #78	L222906	SEEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5'	0	18						CLOSE	
									T1@ 7.0'	0	14							

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: _____
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: _____

DATE STARTED: 8/20/92
DATE FINISHED: 8/23/92
ENVIRO. SPCLT: ADL
OPERATOR: _____
ASSISTANT: _____

LOCATION: LEASE: SE 1/4 Sec 12-E WELL: 71 QD: 800' FSL + 970' FWL
SEC: 10 TWP: 23N RNG: EN PM: NMAD CNTY: McM ST: NM PIT: 5-10-1
LAND USE: Grass - Overgrazed Loc = E-23-10-2 July 1987/90
SURFACE CONDITIONS: Pit is open, clayey sand, no water in pit, no loose debris.

PIT CENTER IS LOCATED APPROXIMATELY 60 FEET N40°W OF WELLHEAD.

Contaminant levels below NMDC STANDARDS AND CRITERIA.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
<u>7105.5</u>	<u>683</u>	<u>10.01</u>	<u>20</u>	<u>—</u>	<u>3</u>	<u>ND</u>
<u>7103</u>	<u>634</u>	<u>10.00</u>	<u>20</u>	<u>—</u>	<u>11</u>	<u>22</u>

DEPTH TO GROUNDWATER: 90'
NEAREST WATER SOURCE/TYP: Y1000'
NEAREST SURFACE WATER: Y1000'
NMDC RANKING SCORE: 10
NMDC TPH CLOSURE STD: 1000'

SAMPLE INVENTORY

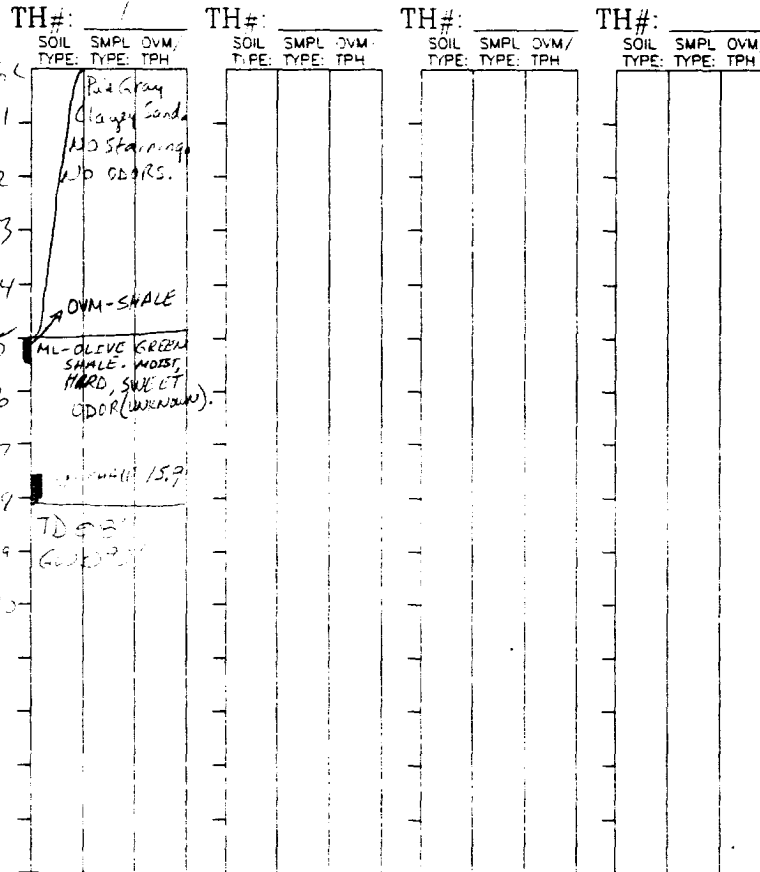
SMPL ID	SMPL TYPE	LABORATORY ANALYSIS

SCALE



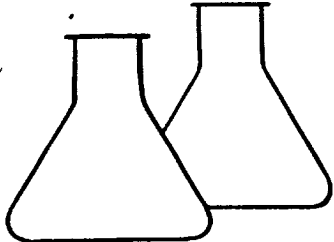
*Surface flow direction
flow direction
flow direction*

SITE DIAGRAM



SOIL TYPE: C - Clay, M - Sil, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well

Pit Dimensions 27' x 12' x 5'



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 @ 5.5'	Date Analyzed:	8-29-94
Project Location:	San Juan 29-5 #71	Date Reported:	9-23-94
Laboratory Number:	GAC0683	Sample Matrix:	Soil

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

ND = Not Detectable at stated detection limits.

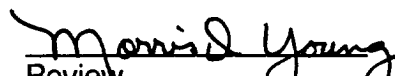
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2	2	0

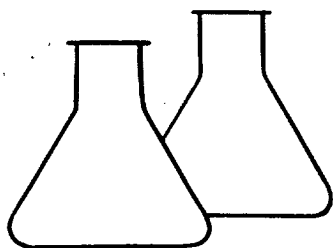
*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA233


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-1 @ 8.0'	Date Analyzed:	8-29-94
Project Location:	San Juan 29-5 #71	Date Reported:	9-23-94
Laboratory Number:	GAC0684	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	22	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	2	2	0

*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 PA233

Robert M. Young
Analyst

Morris D. Young
Review

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

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 4 COPY TO
DISTRICT OFFICE

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

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

MAR 28 1995

Approved

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 29-5 Unit #37

Well Name L

Location: Unit or Qtr/Qtr Sec NW Sec 31 T 29N R 5W County Rio Arriba

Pit Type: Separator X Dehydrator Other Condensate Tank

Land Type: BLM State Fee X Other

RECEIVED
JAN 31 1995

OIL CON. DIV.
DIST. 3

Pit Location: Pit dimensions: Length 10' width 10' depth 4'
(Attach diagram)

Reference: wellhead X other

Footage from reference: 65'

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

Depth to Ground Water: <u>80'</u> (vertical distance from contaminants to seasonal highwater elevation of ground water)	<u> </u>	Less than 50 feet (20 points)	
	<u>X</u>	50 ft to 99 feet (10 points)	<u>10</u>
	<u> </u>	Greater than 100 feet (0 points)	<u> </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> </u>	Yes (20 points)	
	<u>X</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> </u>	200 feet to 1000 feet (10 points)	
	<u>X</u>	Greater than 1000 feet (0 points)	<u>0</u>

PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 7/27/93 Dated Completed: 4/21/94

Excavation X Approx. cubic yards 11

Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: _____

Initial assessment showed soils to be clean at four feet below pit bottom. The pit surface soils were landfarmed on location. A composite of the landfarm on 12/9/93 tested clean (13 ppm TPH). The landfarm was closed on 4/21/94.

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 4' below pit bottom
Sample date 7-1-93 Sample time _____

Sample Results

Benzene (ppm) 0

Total BTEX (PPM) 3.276

Field Headspace (ppm) 516

TPH 57

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 1/30/95 PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY
REVISED DATE JULY 16, 1993

1993

ENVIROTECH, INC.

PIT NO	WELL NAME	U S T R	PIT TYPE	RANK SCORE	CLOSURE STANDARD (PPM)	DATE	ORGANIC/INORGANIC	SOIL TYPE	PIT TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Total					EPA METHOD 8200 (PPB)					TOTAL BTEX	STATUS
												Recoverable Pet. Hydro. (PPM)	Benzene	Toluene	Ethyl Benzene	Xylene	METHOD 5090 PURGE-AND-TRAP						
PA001	SAN JUAN 20-6, #7A	E342906	SEP / TANK	10	1000	6-29	NO	SC	EARTHEN	11-10	725	1940											REM
PA002	SAN JUAN 20-6, #7A	E342906	RES/BLOW	10	1000	6-29	NO	SC/SP	EARTHEN	11-7	0												CLOSE
PA003	SAN JUAN 20-6, #95	L342906	SEP	10	1000	6-29	NO	CL/SC	EARTHEN	11-12	483	184	0	07	24.1	200					397.1	TEST	
PA004	SAN JUAN 20-6, #52A	P342906	SEP	10	1000	6-29	NO	CL/SC	EARTHEN	11-10	419	380	640	39900	6200	59000					105740	REM	
PA005	SAN JUAN 20-6, #48-35	A352906	SEP	20	100	6-29	NO	CL/SP/SM	EARTHEN	11-10.5	442												REM
PA006	SAN JUAN 20-6, #50	H362906	SEP	10	1000	6-30	NO	SM/SC	EARTHEN	11-14	661												TEST
PA007	SAN JUAN 20-6, #101	A362906	SEP	10	1000	6-30	NO	SC/SM	EARTHEN	11-8	563	740											CLOSE
PA008	SAN JUAN 20-5, #41-31	A312905	SEP	20	100	6-30	NO	SM/SC	EARTHEN	11-14	574												REM
PA009	SAN JUAN 20-5, #37-31	L312505	SEP	10	1000	7-01	NO	CL/SC	EARTHEN	11-8	516	67	0	3000	136	140.3					3276.3	CLOSE	
PA010	SAN JUAN 20-5, #53	L322905	SEP	20	100	7-01	NO	CH	EARTHEN	11-4	1.9	18											CLOSE
PA011	SAN JUAN 20-5, #36	L332905	SEP	10	1000	7-01	NO	CH	EARTHEN	11-4	1.5	12											CLOSE
PA012	SAN JUAN 20-5, #89	K342905	SEP	20	100	7-01	NO	SM	EARTHEN	11-12	472	1200	87	235	3100	4230					7662	REM	
PA013	SAN JUAN 20-5, #88	G342905	SEP	0	5000	7-01	NO	SC/SM	EARTHEN	11-10	447												TEST
PA014	SAN JUAN 20-5, #46-21	B212905	SEP	10	1000	7-02	NO	CH/SC	EARTHEN	11-4.5	0.9	2	0										CLOSE
PA015	SAN JUAN 20-5, #24-17	B172905	SEP	10	1000	7-02	NO	CL/CH/SC	EARTHEN	11-4	3.9	12	0	70	13.4	86					199.4	CLOSE	
PA016	SAN JUAN 20-5, #20 MV	M072905	SEP	20	100	7-02	NO	SC/SM	EARTHEN	11-6.5	604	1380	640	59700	13900	102300					178740	REM	
PA017	SAN JUAN 20-6, #10 MV	B022906	SEP	10	1000	7-06	NO	CL/SM	EARTHEN	11-5	652	1940	0	9200	4350	63800					77350	REM	

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

C.O.C. 2759

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PT. ASSESSMENT
CLIENT: SA-1000
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: JCB EXTENDABLE

DATE STARTED: 7-1-93
DATE FINISHED: 7-1-93
ENVIRO. SPCLT: RES
OPERATOR: SIMAROL
ASSISTANT: _____

LOCATION: LEASE: SAT JUN 29-SWELL: # 37-31 QD: 1750' FSL, 1170' FWL (L)
SEC: 31 TWP: 25 N RNG: 5W PM: NM CNTY: RIO #22 AST: NM PIT: SEP.
LAND USE: RANGE LEASE SF- 078282
SURFACE CONDITIONS: EARTHEN PIT

FIELD NOTES & REMARKS: PIT IS LOCATED APPROX. 65' N 45° E OF WELLHEAD

CLOSURE STD: <1000 TPH
ppm

TI: moist, brown/black, silty, sandy, clay. bedrock @ 8'.

Rank score = 10

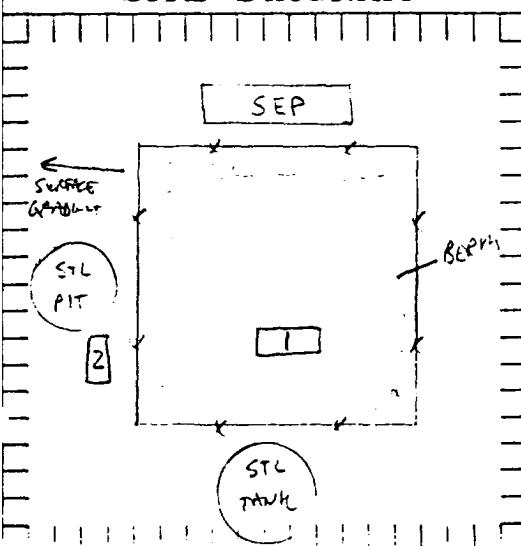
[illegible]

18.1
FIBS 744 1:1 (155 x 2)
GAC 0085

SCALE

0 5 10 FEET

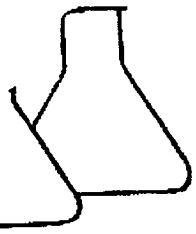
SITE DIAGRAM



TEST HOLE LOGS:

TH#:	SOIL TYPE:	SMPL TYPE:	QVM/TPH
1			
2			
3			
4	PT	Bottom	
5	CL	ADDP	
6			
7			
8	CL	GRAB	SLG
9	TD = 8' SANDSTONE		
10			

SOIL TYPE: C - Clay, M - Sil. S - Sand, J - Gravel Position: L - None, H - Present Grading: P - Poor, W - Good



ENVIROTECH LABS

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

*File
w/ P.L.s*

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Landfarm Composite	Date Sampled:	12-09-93
Laboratory Number:	6657	Date Received:	12-09-93
Sample Matrix:	Soil	Date Analyzed:	12-14-93
Preservative:	Cool	Date Reported:	12-14-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	13.1	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 29-5 #37

Tony Tistano
Analyst

Maria Young
Review

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

Denny E. Frost
DEPUTY OIL & GAS INSPECTOR
SUBMIT COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
STATE OFFICE

MAR 28 1995

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

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

Facility Or: San Juan 29-5 Unit #88

Well Name

Location: Unit or Qtr/Qtr Sec SW NE Sec 34 T 29N R 5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☐ State ☐ Fee ☒ Other ☐

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DIST. 3

Pit Location: Pit dimensions: Length 30' width 40' depth 2'
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 55

Direction from reference: 45 Degrees ☒ East North ☒
of
West South ☐

Depth to Ground Water: 200'
(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

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

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

☐	Yes	(20 points)	
☒	No	(0 points)	<u>0</u>

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

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

PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/25/93 Dated Completed: 4/25/94

Excavation X Approx. cubic yards 217

Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: _____

Initial assessments showed soils to be clean at 4' below the pit bottom.

Soils to this depth were excavated and landfarmed onsite. A composite analysis (3/29/94) tested 1390 ppm TPH. The landfarmed soil was used to fill in the excavation on 4/25/94.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Composite from bottom of excavation Sampled _____

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

with a backhoe.
Sample depth Excavation bottom (8' below ground surface)

Sample date 3/29/94 Sample time _____

Sample Results

Benzene (ppm) ND

Total BTEX (PPM) .01

Field Headspace (ppm) _____

TPH 960

} 8/2/93 at 6' below ground surface (prior to excavation and landfarm)

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 1/30/95 PRINTED NAME Ed Hasely

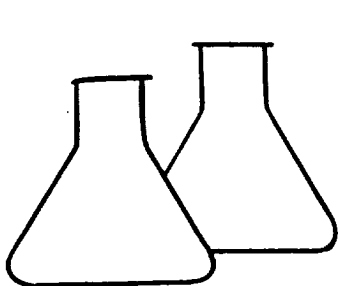
SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY
REVISED DATE JULY 16, 1993

1993

ENVIROTECH, INC.

PIT NO.	WELL NAME	U.S.I.R.	PIT TYPE	RANK SCORE	CLOSURE STANDARD (PPM)	DATE	GROUNDWATER ENCOUNTERED Sub-Surf. Depth	SOIL TYPE	PIT TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Total Benzene (PPM)	EPA METHOD 8200 (PPB)					TOTAL BTEX	STATUS
													METHOD 5090 PUDGE-AND-TRAP						
													Benzene	Toluene	Ethyl Benzene	Xylene			
PA001	SAN JUAN 20-6, #7A	E342906	SEP 7/1986	10	1000	6-28	NO	SC	EARTHEN	11-10	725	1940						REM	
										11-13	280								
										12-11	2.2								
PA002	SAN JUAN 20-6, #7A	E342906	RES/BL/OW	10	1000	6-28	NO	SC/SP	EARTHEN	11-7	0							CLOSE	
PA003	SAN JUAN 20-6, #95	L342906	SEP	10	1000	6-28	NO	CL/SC	EARTHEN	11-9	493	184	0	97	24.1	299	397.1	TEST	
										11-12	483								
PA004	SAN JUAN 20-6, #52A	P342906	SEP	10	1000	6-28	NO	CL/SC	EARTHEN	11-10	419	380	640	39900	6200	59000	106740	REM	
										12-8	13.4								
PA005	SAN JUAN 20-6, #48-35	A352906	SEP	20	100	6-28	NO	CL/SP/SM	EARTHEN	11-10.5	442							REM	
										11-12.5	323	12800							
										12-5	67.2								
										12-9	122.6								
PA006	SAN JUAN 20-6, #50	H362906	SEP	10	1000	6-30	NO	SM/SC	EARTHEN	11-14	581							TEST	
										11-16	781	300							
										11-18	742								
										12-15	137								
PA007	SAN JUAN 20-6, #101	A362906	SEP	10	1000	6-30	NO	SC/SM	EARTHEN	11-8	59.3	740						CLOSE	
PA008	SAN JUAN 20-5, #41-31	A312906	SEP	20	100	6-30	NO	SM/SC	EARTHEN	11-14	574							REM	
										11-19	775								
										12-10	5.3								
										12-14.5	1056	1100							
PA009	SAN JUAN 20-5, #37-31	L312906	SEP	10	1000	7-01	NO	CL/SC	EARTHEN	11-8	519	57	0	3000	139	140.3	3276.3	CLOSE	
										12-6	0								
PA010	SAN JUAN 20-5, #53	L322906	SEP	20	100	7-01	NO	CH	EARTHEN	11-4	1.9	18						CLOSE	
										11-8.5	0.8								
PA011	SAN JUAN 20-5, #36	L332906	SEP	10	1000	7-01	NO	CH	EARTHEN	11-4	1.5	12						CLOSE	
										11-7	1.9								
PA012	SAN JUAN 20-5, #89	K342906	SEP	20	100	7-01	NO	SM	EARTHEN	11-12	472	1200	87	235	3100	4230	7682	REM	
										11-16	512								
PA013	SAN JUAN 20-5, #66	G342906	SEP	0	5000	7-01	NO	SC/SM	EARTHEN	11-10	447							TEST	
										11-16	492	1190	15.5	202	6900	7130	14147.5		
PA014	SAN JUAN 20-5, #46-21	B212906	SEP	10	1000	7-02	NO	CH/SC	EARTHEN	11-4.5	0.9	0						CLOSE	
										11-7	2								
PA015	SAN JUAN 20-5, #24-17	B172906	SEP	10	1000	7-02	NO	CL/CH/SC	EARTHEN	11-4	3.9	12	0	70	13.4	86	199.4	CLOSE	
										11-6.5	13.2								
										11-11.5	76								
PA016	SAN JUAN 20-5, #20 MV	M072906	SEP	20	100	7-02	NO	SC/SM	EARTHEN	11-6.5	604	1380	940	59700	13900	102500	176740	REM	
										11-11.5	322								
										11-17.5	233	0							
										12-5	1.3								
										12-14	1.3								
PA017	SAN JUAN 20-6, #10 MV	B022906	SEP	10	1000	7-02	NO	CL/SM	EARTHEN	11-5	662	1940	0	9200	4350	63900	77350	REM	
										11-8	3.6	10							



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Pet	Project #:	93163
Sample ID:	4' below pit bottom	Date Reported:	08-04-93
Laboratory Number:	5810 (6' BGS)	Date Sampled:	08-02-93
Sample Matrix:	Soil	Date Received:	08-02-93
Preservative:	Cool	Date Extracted:	08-03-93
Condition:	Cool & Intact	Date Analyzed:	08-03-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.1
Toluene	65	26.1
Ethylbenzene	ND	13.1
p,m-Xylene	79	26.1
o-Xylene	ND	19.6

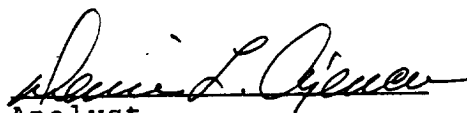
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	106 %
	Bromofluorobenzene	97 %

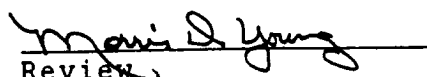
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

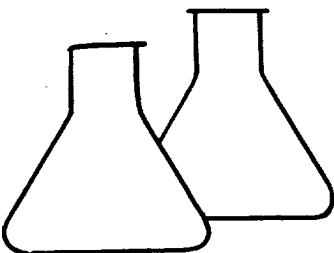
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: SJ - 29-5 - #88


Analyst


Review



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	4' below pit bottom	Date Sampled:	08-02-93
Laboratory Number:	5810 (6.1345)	Date Received:	08-02-93
Sample Matrix:	Soil	Date Analyzed:	08-03-93
Preservative:	Cool	Date Reported:	08-03-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	24.9	5.0

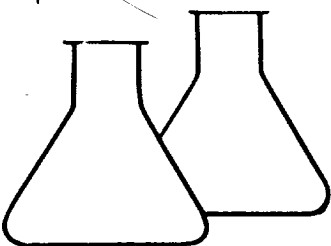
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: SJ 29-5 #88.

Ar Chabaz
Analyst

Maris D. Young
Review



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	8' bgs	Date Sampled:	03-29-94
Laboratory Number:	7114	Date Received:	03-29-94
Sample Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	960	20.0

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

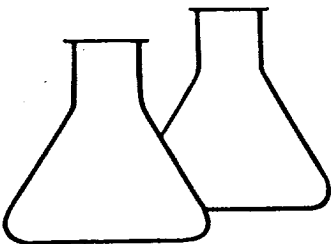
Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: SJ-29-5-88

Tony Tristano
Analyst

Excavation Composite

Marin D. Young
Review



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Landfarm	Date Sampled:	03-29-94
Laboratory Number:	7115	Date Received:	03-29-94
Sample Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	1,390	20.0

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-29-5-88

Tony Tristano
Analyst

LF Composite

Marin D. Young
Review

MAR 28 1995

Approved

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

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

Facility Or: San Juan 29-5 Unit #69

Well Name I

Location: Unit or Qtr/Qtr Sec NE SE Sec 21 T 29 R 5 County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other _____

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

Pit Location: Pit dimensions: Length 50', width 33', depth 3'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 110
Direction from reference: 20 Degrees X East North X
of
West South

Depth to Ground Water: 60

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

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

Wellhead Protection Area:				
(less than 200 feet from a private		Yes	(20 points)	
domestic water source, or: less than	<u>X</u>	No	(0 points)	<u>0</u>
1000 feet from all other water sources).				

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.)				

PJTCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

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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 assessment showed soils to be clean at the surface and at 3'
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 3' below pit bottom

Sample date 8-29-94 Sample time _____

Sample Results

Benzene (ppm) .084

Total BTEX (PPM) .503

Field Headspace (ppm) 288

TPH 359

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 2/16/95 PRINTED NAME Ed Hasely

SIGNATURE Ed Hasely and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY
REVISED DATE: SEPT 28, 1994

CJC

1994

ENVIROTECH, INC.

PIT NO	WELL NAME	U.S.T.R.	PIT TYPE	RANK SCORE	CLOSURE STANDARD (PPM)	DATE	GROUNDWATER INC. (INTEGRATED Sub Surf. Depth)	SOIL TYPE	SAMPLE NO.	Organic Vapor Meter (PPM)	Recoverable Per. Hydro. (PPM)	EPA METHOD 8020 (PPM)				TOTAL BTEX	STATUS
												Benzene	Toluene	Ethyl Benzene	Xylene		
PA220	SAN JUAN 32-7 #47	A353207	SEP/BIOW	10	1000	07/13/94	NO	CLAY/SILT	T1@ 3.0' T1E@ 6.0' T1W@ 6.0' T1S@ 6.0' T1@ 14.0'	688 684 681 695 877	142 248 64 242						CLOSE
PA228	SAN JUAN 30-5 #73 DK	B103005	SEP	0	5000	08/17/94	NO	SHALE	T1@ 7.0' T1@ 12.0'	178 39.6	280	43	1130	56	697	1928	CLOSE
PA227	SAN JUAN 30-5 #61 MV	A153005	SEP	10	1000	08/18/94	NO	CLAY	T1@ 4.5'	1.5	36						CLOSE
PA227A	SAN JUAN 28-6 #107	A362808	SEP	10	1000	08/22/94	NO	CLAY	T1@ 16.0'	490	68	32	86	ND	5.1	178	CLOSE
37B	SAN JUAN 28-6 #107	A362808	SEP	10	100	09/07/93	NO	CLAY	T2@ 4.5' T2@ 7.0'	48 345	168 74	ND	ND	ND	ND	ND	CLOSE
PA228	SAN JUAN 29-5 #81	B352803	SEP			08/22/94	NO	SAND	T1@ 5.5' T3@ 3.0'	547 5.9	427.15 ND						REMEDATE TO 5.5' BEDROCK
PA228	SAN JUAN 28-6 #80	N352805	SEP	0	5000	08/22/94	NO	SANDY CLAY	T1@ 3.5' T1@ 6.0'	158 157	36	48	183	84	565	880	CLOSE
PA230	SAN JUAN 29-6 NP #88	M022808	SEP	10	1000	08/23/94	NO	SILT CLAY	T1@ 6.0'	6.5	34						CLOSE
PA231	SAN JUAN 29-5 #103 PC	K042805	SEP	0	5000	08/23/94	NO	SILT CLAY	T1@ 4.0'	190	319	33	339	121	1440	1833	CLOSE
PA232	SAN JUAN 28-6 #114	A072808	SEP	0	5000	08/23/94	NO	SILT CLAY	T1@ 4.5' T1@ 7.0'	544 80	4720 24	34	76	19	240	388	CLOSE
PA233	SAN JUAN 29-5 #71	M182805	SEP	10	1000	08/28/94	NO	CLAY/SHALE	T1@ 5.5' T1@ 8.0'	0 16	ND 22						CLOSE
PA234	SAN JUAN 30-5 #89	A333005	SEP	0	5000	08/28/94	NO	CLAY/SHALE	T1@ 4.5' T1@ 7.0'	0 0	ND ND						CLOSE
PA235	SAN JUAN 30-5 #100 DK	A343005	SEP	0	5000	08/28/94	NO	SNDY SHALE	T1@ 5.5'	0	ND						CLOSE
PA236	SAN JUAN 29-5 #99	G212805	SEP	10	1000	08/28/94	NO	SAND/CLAY	T1@ 6.0'	288	359	84	29	91	289	503	CLOSE
37	SAN JUAN 28-5 #75	M222805	SEP	10	1000	08/30/94	NO	SNDY/CLAY	T1@ 6.0' T1@ 11.0'	388 425	3380 280		54	36		80	REMEDATE TO 6.0'
PA238	SAN JUAN 29-5 #70	H282805	SEP	10	1000	08/30/94	NO	CLAY	T1@ 6.0'	147	20	52	31		78	181	CLOSE
PA239	SAN JUAN 28-5 #87	C252805	SEP	10	1000	08/30/94	NO	CLAY/SAND	T1@ 6.0' T1@ 11.0' T1@ 14.0'	466 302 218	7580 8880 1320						REMEDATE TO 14.0' BEDROCK
PA240	SAN JUAN 29-5 #104 PC	B102805	SEP	10	1000	08/31/94	NO	CLAY	T1@ 0.5' T1@ 4.0'	166 140	6740 36	68	83	560	405	1127	REMEDATE TO 4.0'
PA241	SAN JUAN 29-5 #61	H082805	SEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5' T1@ 7.0'	2 2	ND 12						CLOSE
PA242	SAN JUAN 29-5 #59	H312805	SEP	10	1000	08/31/94	NO	CLAY/SAND	T1@ 7.0' T1@ 11.0'	470 84	5840 22						REMEDATE TO 11.0' BEDROCK
PA243	SAN JUAN 28-6 #78	L222806	SEP	0	5000	08/31/94	NO	CLAY	T1@ 4.5' T1@ 7.0'	0 0	18 14						CLOSE

ENVIROTECH Inc.

5796 US HWY. 64 FARMINGTON, NM 87401
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PIT NO: PA236

C.O.C. NO: 3896

FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT
CLIENT: Private
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: Excavator

DATE STARTED: 8/24/04
DATE FINISHED: 8/24
ENVIRO. SPCLT: PM
OPERATOR: —
ASSISTANT: —

LOCATION: LEASE: SW 1/4, 29N WELL: 69 QD: 2250' E / 1730' E
SEC: 2 TWP: 29N RNG: 5W PM: NM CNTY: R. AL ST: NM PIT: CONCRETE
LAND USE: RAINFOREST WATER FEED, ETC / 6000
SURFACE CONDITIONS: —

PIT CENTER IS LOCATED APPROXIMATELY 110 FEET N20°E OF WELLHEAD. LAND AREA: —

Recommended Closure for Pit: See Survey for Details

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	ML. FREQ.	DILUTION	READING	CALC. ppm
<u>T1 @ 6'</u>	<u>235</u>	<u>9.75</u>	<u>20</u>	<u>—</u>	<u>175</u>	<u>359</u>

DEPTH TO GROUNDWATER: 20'
NEAREST WATER SOURCE/TYPE: 500'
NEAREST SURFACE WATER: 500'
NMCD BANKING SCORE: 10
NMCD TPH CLOSURE STD: 1000

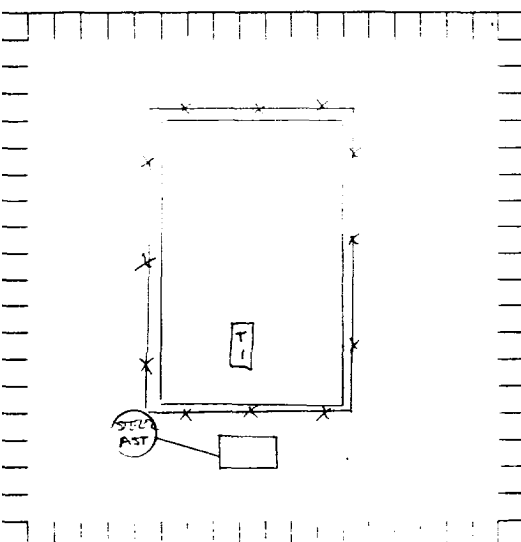
SAMPLE INVENTORY		
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
<u>T1 @ 6'</u>	<u>SOIL</u>	<u>BTEX</u>

SCALE



FEET

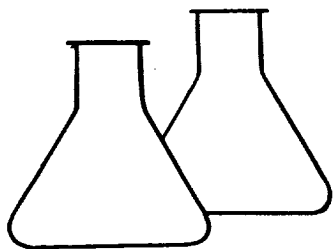
SITE DIAGRAM



TH#:	TH#:	TH#:	TH#:
SOIL TYPE:	SMPL OVM/TYPE:	SOIL TYPE:	SMPL OVM/TYPE:
<u>62</u>	<u>SP-Pale</u>		
<u>1</u>	<u>Reddish Brown,</u>		
<u>2</u>	<u>Poorly GRADED</u>		
<u>3</u>	<u>NO STAINING.</u>		
<u>4</u>	<u>SP-Poorly Graded</u>		
<u>5</u>	<u>Spd with</u>		
<u>6</u>	<u>Clay, BLACKISH</u>		
<u>7</u>	<u>BROWN, LOOSE,</u>		
<u>8</u>	<u>MOIST.</u>		
<u>9</u>	<u>SP-SPCL</u>		
<u>10</u>	<u>ZBB.</u>		
<u>11</u>	<u>TO 6'</u>		
<u>12</u>	<u>GW @ 6'</u>		

SOIL TYPE: C - Clay, M - Sil. S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, W - Well

- 0' 13' 33' X 1' 10'



ENVIROTECH LABS

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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:	T-1 @ 6.0'	Date Analyzed:	8-29-94
Project Location:	San Juan 29-5 #69	Date Reported:	9-23-94
Laboratory Number:	GAC0685	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	359	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	2	2	0

*Administrative Acceptance limits set at 30%.

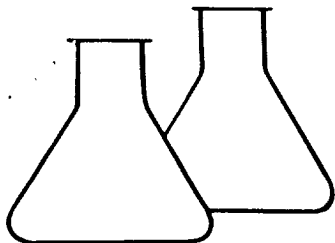
Method: Modified Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and Waste,
USEPA Storet No.4551, 1978

Comments: Separator Pit PA236

Robert M. Young
Analyst

M. David Young
Review

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips	Project #:	93163
Sample ID:	TI06'	Date Reported:	09-06-94
Laboratory Number:	7858	Date Sampled:	08-29-94
Sample Matrix:	Soil	Date Received:	08-29-94
Preservative:	Cool	Date Extracted:	09-01-94
Condition:	Cool & Intact	Date Analyzed:	09-02-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	84	20.0
Toluene	29	20.0
ethylbenzene	91	13.3
p,m-Xylene	ND	20.0
o-Xylene	299	20.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromofluorobenzene	113 %

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 29-5 # 69 Sep Pit PA236

Rex L. Griffin
Analyst

Morris D. Young
Review

RANKING SCORE (TOTAL POINTS): 20

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 assessment showed soils to be clean at the surface and at 5' 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 5' below pit bottom

Sample date 7-1-93 Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (PPM) _____

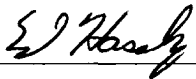
Field Headspace (ppm) .8

TPH 18 (6" below pit bottom)

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 1/30/95 PRINTED NAME Ed Hasely

SIGNATURE  and TITLE Environmental Engineer

PHILLIPS PETROLEUM PIT ASSESSMENT SUMMARY
 REVISED DATE JULY 16, 1993

1993

ENVIROTECH, INC.

PIT NO.	WELL NAME	U.S.T.R.	PIT TYPE	RANK SCORE	CLOSURE STANDARD	DATE	GROUNDWATER RECOVERED	SOIL TYPE	PIT TYPE	SAMPLE NO.	Original Vapor Meter (770)	Total Recoverable Per. Hydro. (770)	EPA METHOD 8020 (PPB)					TOTAL	STATUS
													Benzene	Toluene	Ethyl Benzene	Xylene	BTEX		
PA001	SAN JUAN 28-6, #7A	E342906	SEP / RANK	10	1000	6-28	NO	SC	EARTHEN	11-10	725	1940						REM	
										11-13	280								
										12-11	2.2								
PA002	SAN JUAN 28-6, #7A	E342906	RES/BL.OW	10	1000	6-28	NO	SC/SP	EARTHEN	11-7	0							CLOSE	
PA003	SAN JUAN 28-6, #95	L342906	SEP	10	1000	6-28	NO	CL/SC	EARTHEN	11-9	483							TEST	
										11-12	493	184	0	97	24.1	299	387.1		
PA004	SAN JUAN 28-6, #52A	P342906	SEP	10	1000	6-28	NO	CL/SC	EARTHEN	11-10	419	380	640	39900	6200	59000	105740	REM	
										12-8	13.4								
PA005	SAN JUAN 28-6, #49-35	A352906	SEP	20	100	6-28	NO	CL/SP/SM	EARTHEN	11-10.5	442							REM	
										11-12.5	323	12800							
										12-5	67.2								
										12-9	122.6								
PA006	SAN JUAN 28-6, #50	H362906	SEP	10	1000	6-30	NO	SM/SC	EARTHEN	11-14	681							TEST	
										11-16	781								
										11-16	742	390							
										12-15	137								
PA007	SAN JUAN 28-6, #101	A362906	SEP	10	1000	6-30	NO	SC/SM	EARTHEN	11-8	59.3	740						CLOSE	
PA008	SAN JUAN 28-5, #41-31	A312905	SEP	20	100	6-30	NO	SM/SC	EARTHEN	11-14	574							REM	
										11-16	775								
										12-10	5.3								
										12-14.5	1055	1100							
PA009	SAN JUAN 28-5, #37-31	L312905	SEP	10	1000	7-01	NO	CL/SC	EARTHEN	11-8	519	57	0	3000	136	140.3	3276.3	CLOSE	
										12-8	0								
PA010	SAN JUAN 28-5, #53	L322905	SEP	20	100	7-01	NO	CH	EARTHEN	11-4	1.9	18						CLOSE	
										11-8.5	0.8								
PA011	SAN JUAN 28-5, #30	L332905	SEP	10	1000	7-01	NO	CH	EARTHEN	11-4	1.8	12						CLOSE	
										11-7	1.9								
PA012	SAN JUAN 28-5, #89	K342905	SEP	20	100	7-01	NO	SM	EARTHEN	11-12	472							REM	
										11-18	512	1280	87	235	3100	4230	7682		
PA013	SAN JUAN 28-5, #88	G342905	SEP	0	5000	7-01	NO	SC/SM	EARTHEN	11-10	447							TEST	
										11-16	492	1100	15.5	202	6900	7130	14147.5		
PA014	SAN JUAN 28-5, #40-21	B212905	SEP	10	1000	7-02	NO	CH/SC	EARTHEN	11-4.5	0.9	0						CLOSE	
										11-7	2								
PA015	SAN JUAN 28-5, #24-17	B172905	SEP	10	1000	7-02	NO	CL/CH/SC	EARTHEN	11-4	3.9							CLOSE	
										11-6.5	13.2	12	0	79	13.4	89	199.4		
										11-11.6	79								
PA016	SAN JUAN 28-5, #20 MV	M072905	SEP	20	100	7-02	NO	SC/SM	EARTHEN	11-6.5	904	1380	940	59700	13900	102500	176740	REM	
										11-11.5	322								
										11-17.5	233	0							
										12-5	1.3								
										12-14	1.3								
PA017	SAN JUAN 28-6, #10 MV	B022906	SEP	10	1000	7-02	NO	CL/SM	EARTHEN	11-8	652	1940	0	9200	4350	63900	77390	REM	
										11-8	3.6	10							

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FIELD REPORT: SITE ASSESSMENT

JOB No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS
CLIENT: P411123
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: JCB EXTENDAROE

DATE STARTED: 7-1-93
DATE FINISHED: 7-1-93
ENVIRO. SPCLT: RES
OPERATOR: CIM ARROW
ASSISTANT: _____

LOCATION: LEASE: SAN JUAN SWELL: #53 QD: 1800' S, 990' W. (L)
SEC: 32 TWP: 29 N RNG: 5 W PM: NM CNTY: RIO ARIZONA ST: NM PIT: SEP
LAND USE: RANGE - LEASE # E-289-36
SURFACE CONDITIONS: EXPOSED PIT

FIELD NOTES & REMARKS: PIT IS LOCATED APPROX. 50' SOUTH OF WELLSHEAD
closure STD. < 100 ppm TPH TL: moist, brown, silty-clay. - no odor.

RANK SCORE = 20

PIT APPEARS CLEAN - RECOMMEND CLOSURE.

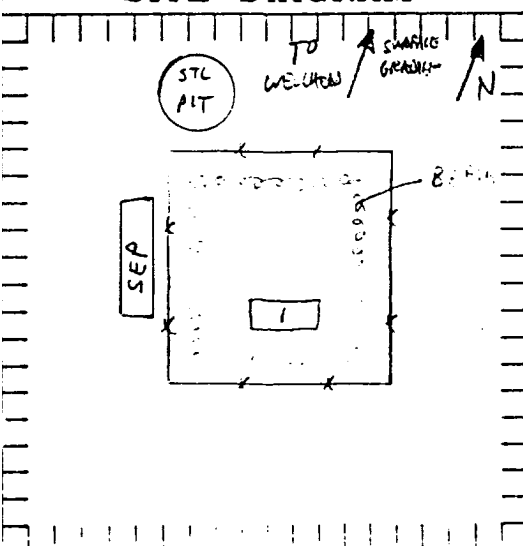
[illegible]

FIELD 418.1, 1:1 (9 x 2 = 18)
GAC0086

SCALE

0 5 10 FEET

SITE DIAGRAM



TEST HOLE LOGS:

TH#:	SOIL TYPE:	SMPL TYPE:	OVN/TPH
1			
2			
3			
4	CH	GRM	1.9
5			BROWN
6	CH		NO
7			CHART
8			
9	CH	GRM	0.8
10			TD = 8.5'
11			
12			
13			
14			
15			

SOIL TYPE: C - Clay, M - Sil, S - Sand, G - Gravel Plasticity: L - None, H - Plastic Grading: P - Poorly, G - Good