

Lenny E. Foust

DEPUTY OIL & GAS INSPECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 16 1997

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

Approved SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit E, 1530' FNL & 905' FWL
Section 34, T29N, R6W

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

SF-080146

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

San Juan 29-6 Unit

8. Well Name and No.

San Juan 29-6 Unit #7A

9. API Well No.

30-039-21367

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Pit Closure
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The pit associated with the subject well's separator has been closed and replaced with a double bottom steel tank. Details of the closure are attached.

RECEIVED
MAR 20 1997

OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed

John N. White

Title Sr Safety & Environ. Spclst.

Date 3-18-97

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

District I

P.O. Box 980, 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 87504-2088SUBMIT COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT- REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum Company Telephone: (505) 599-3400Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401Facility Or: San Juan 29 - 6 Unit # 7 A

Well Name

Location: Unit or Qtr/Qtr Sec E SWNW Sec 34 T 29N R 6W County Rio ArribaPit Type: Separator X Dehydrator _____ Other Condensate TankLand Type: BLM X State _____ Fee _____ Other _____Pit Location: Pit dimensions: Length 20 ft, width 20 ft, depth 17 ft
(Attach diagram)Reference- wellhead X other _____Footage from reference: 65 ftDirection from reference: 45 Degrees X East of North _____
_____ West of South X

Depth to Ground Water: <u>60 ft</u>	Less than 50 feet	(20 points)	
(vertical distance from	<u>X</u> 50 ft to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	<u>10</u>
highwater elevation of			
ground water)			

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

P:\pits\PrC@WK3

RANKING SCORE (TOTAL POINTS): 10

RECEIVED
MAR 20 1997
OIL CON. DIV.
DIST. 3

Date Remediation Started: 6/29/93

Dated Completed: 2/24/97

Excavation X

Approx. cubic yards 219

Landfarmed X

In situ 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 13 feet below the original pit bottom. The excavated soils were landfarmed on location. The landfarm tested clean on 10/19/94. The landfarmed soils were then used to fill the excavation. A risk assessment was performed on 2/24/97 with samples received from 22 and 24 feet below the original pit depth. Based on the risk assessment there is little or no risk to human health or environment.

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, the bottom of the excavation, and the bottom of the boring.

Sample depth 28 feet

Sample date 2/24/97

Sample time 14:40

Sample Results

Benzene(ppm) ND

Total BTEX (PPM) 18.1

Field Headspace (ppm) _____

TPH 22.4

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

3-18-97

PRINTED NAME

Bob Wirtanen

SIGNATURE

Robert A. Wirtanen

and TITLE

-Sr. Safety & Environmental Specialist

PA 001

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

FIELD REPORT: SITE ASSESSMENT

JOE No: 93163
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS
CLIENT: PHILLIPS
CONTRACTOR: ENVIROTECH INC. / CIMARRON
EQUIPMENT USED: BACKHOE

DATE STARTED: 6-29-83
DATE FINISHED: _____
ENVIRO. SPCLT: REO
OPERATOR: PHILLIPS
ASSISTANT: mtl

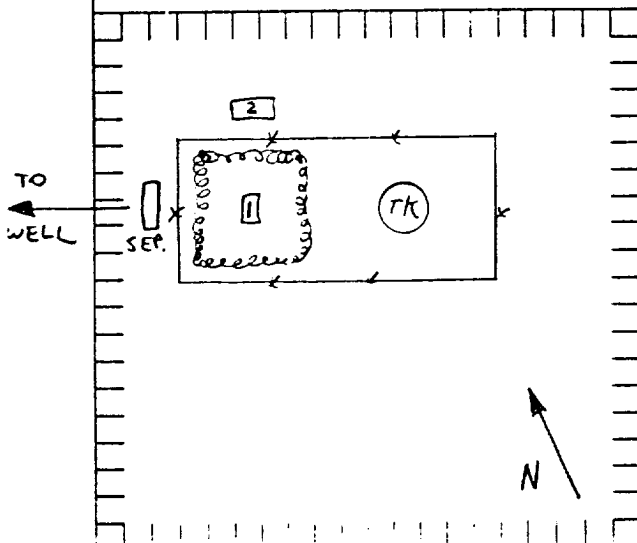
LOCATION: LEASE: SAN JUAN 29-6 WELL: UNIT # 7A QD: 1530' FNL, 895' FWL (E)
SEC: 34 TWP: 29 N RNG: 6 W PM: NW CNTY: RIO ARriba ST: PIT: SEP / MAY

LAND USE: RANGE
SURFACE CONDITIONS: EARTHEN PIT

FIELD NOTES & REMARKS: PIT IS LOCATED 65' S 45° E FROM WELHEAD.
OUM 2000 ~ 1.7 PPM BACKGROUND.
TI-MOST, SANDY-CLAY, SOFT, MED. PLASTIC, BROWN GRAY DISCOLORATION, NATURAL LT. BROWN.

[illegible]

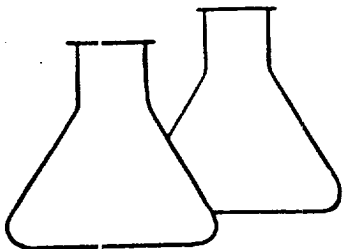
SCALE
0 10 20 FEET
SITE DIAGRAM



TEST HOLE LOGS:

TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH	TH#:	SOIL TYPE:	SMPL TYPE:	OVM/TPH
1				1	SC		4/				
2				2							
3				3							
4	PT		BOTOM	4							
5	SC			5							
6				6							
7				7							
8				8							
9				9							
10	CH		GRAB 725	10							
11				11	SC	GRAB	2.2				
12	SC			12	-	-	1.7				
13			GRAB 280	13							
14			TD 13'	14							
15				15							

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



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 @ 13'	Date Analyzed:	06-29-93
Project Location:	San Juan 29-6 Unit 7A	Date Reported:	07-06-93
Laboratory Number:	GAC0078	Sample Matrix:	Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	1940	10

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

Comments: Sep/Tank Pit PA001

R. E. O'Neil
Analyst

Maris D. Young
Review

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

FIELD REPORT: SITE ASSESSMENT

JCE No: 93153
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS
CLIENT: MILWAUKEE
CONTRACTOR: ENVIROTECH, INC. / CIMARRON
EQUIPMENT USED: BACKHOE

DATE STARTED: 6-29-83
DATE FINISHED: ~~6-29-83~~
ENVIRO. SPCL: RED
OPERATOR: PULLIY
ASSISTANT: M.R.

LOCATION: LEASE: SAN JUAN 29-WELL: UNIT # 7A GD: 1530' FWL, 895' FWL E.
SEC: 34 TWP: 29N RNG: 6W PM: NM CNTY: EL PASO ST: NM PIT SEP / JAN 4

LAND USE: RANGE
SURFACE CONDITIONS: EXPOSED PLT ~ 15' x 15'

FIELD NOTES & REMARKS: PIT IS LOCATED 65' S 45° E FROM WALKWAY.
GUM ZEROED ~ 1.7 ppm BACKGROUND.

TL - MOIST, SANDY-CLAY, SOFT, MED. PLASTIC, BROWN GRAY DISCOLORATION, NATURAL LT. BROWN.

SITE RANKING 10-19 \therefore TPH = 1000 ppm. CLOSURE SN.

[illegible]


TPH (6AC0078)

5-17-14 :

$\frac{S-17-11}{T1 @ 17'} =$ MOIST GRAY/BLUE CLAYEY SAND - SMW + OOL.
APPARENT

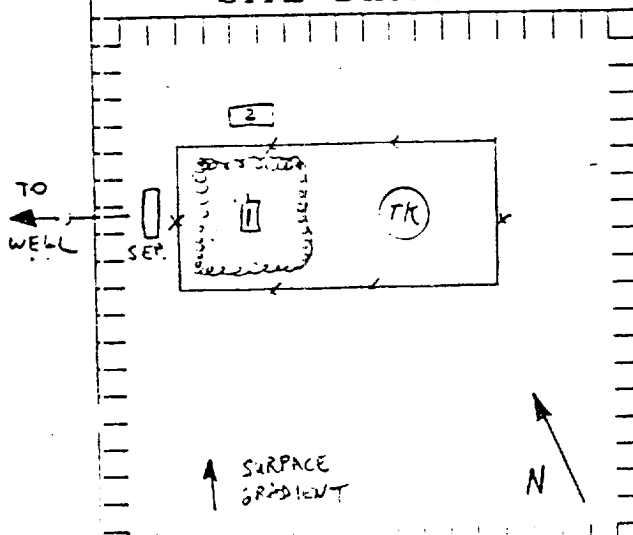
64C 503: 1135: 2.22 10.1 = 2.3 x 2 x 10 = 4360

SCALE



0 10 20 FEET

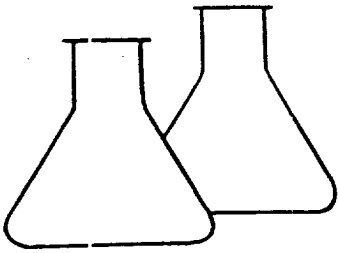
SITE DIAGRAM



TEST HOLE LOGS:

TH#:			TH#:			TH#:			TH#:		
SOIL	SWPL	DVM	SOIL	SWPL	DVM	SOIL	SWPL	DVM	SOIL	SWPL	DVM
TYPE	TYPE	TPH	TYPE	TYPE	TPH	TYPE	TYPE	TPH	TYPE	TYPE	TPH
6.5			SC	U/							
1			-	LEUCE-	16						
2			-	SE CLAY	17	SC	GRS	1098			5/17/94
3			-	2 CALICHE	18			TD = 17'			
4	PT BORDA		-	No soil	19						
5	SC		-	Diplo-	20						
6			-	CLAY							
7			-								
8			-								
9			-								
10	CH	GRS 725	-								
11			-	SC GRS 2.2							
12	SC		-	- 1.7							
13		GRS 280	-								
14		TD 13'	-								
15			-								

SOIL TYPE: C - Clay, M - Silty, S - Sand, G - Gravel Plasticity: L - None, P - Plastic Draining: P - Poor, D - 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 @ 17'	Date Analyzed:	5-17-94
Project Location:	San Juan 29-6 #7A	Date Reported:	5-17-94
Laboratory Number:	GAC0503	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	4400	100

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 PA001

R. E. O'Neil
Analyst

M. S. Young
Review

COPY

CLIENT: PHILLIPS PETROLEUM

ENVIROTECH Inc.

PIT NO: PA001

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

C.D.C. NO: 3867

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-6 WELL #: 7A PIT: Sep/Tank
QUAD/UNIT: E SEC: 34 TWP: 29N RNG: 6W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1530' FNL 895' FWL CONTRACTOR: Cimarron

DATE STARTED: _____
DATE FINISHED: 9 Aug. 94

ENVIRONMENTAL
SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 20 FT. x 17 FT. DEEP.
DISPOSAL FACILITY: Land Farm - On site CUBIC YARDAGE: _____
LAND USE: Range LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 65 FEET S45°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: 60' NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMDCD RANKING SCORE: 10 NMDCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown, slightly moist, silty sand to clayey sand

1 dilution

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5 @ 17'	GAC644	10	20	20	302	6040

1 cm = 10'
SCALE

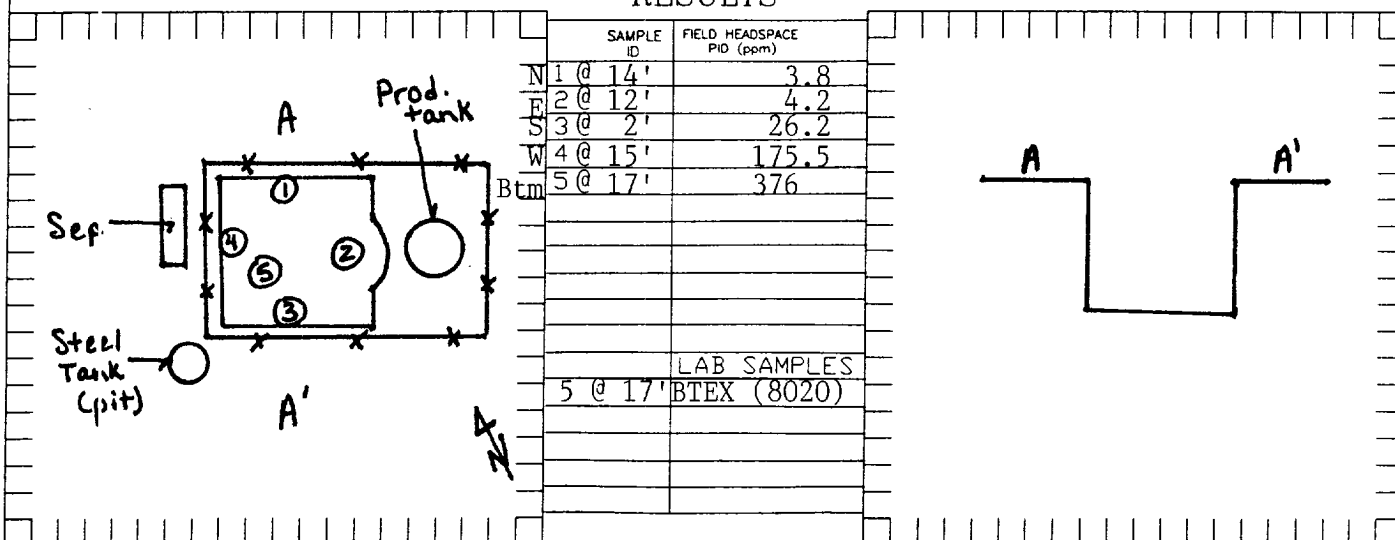


0 FEET

PIT PERIMETER

OVN RESULTS

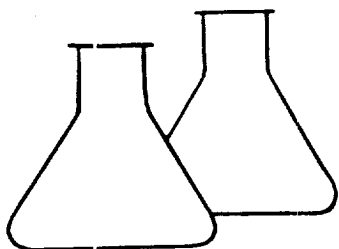
PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____



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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:	5 @ 17'	Date Analyzed:	8-9-94
Project Location:	San Juan 29-6 #7A	Date Reported:	8-9-94
Laboratory Number:	GAC0644	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	6,040	100


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

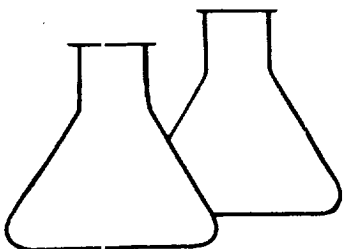
*Administrative Acceptance limits set at 30%.

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

Comments: Separator/Tank Pit PA001


Analyst


Review



ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	PHILLIPS	Project #:	93163
Sample ID:	5@17'	Date Reported:	08-16-94
Laboratory Number:	7796	Date Sampled:	08-09-94
Sample Matrix:	Soil	Date Received:	08-09-94
Preservative:	Cool	Date Extracted:	08-12-94
Condition:	Cool & Intact	Date Analyzed:	08-15-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	19.5
Toluene	24	19.5
Ethylbenzene	74	13.0
p,m-Xylene	828	19.5
o-Xylene	205	19.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	90 %
	Bromofluorobenzene	85 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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

ND - Parameter not detected at the stated detection limit.

Comments: SAN JUAN 29-6 # 7A PA001

Ref. L. Haffner
Analyst

Morris D. Young
Review

5861

Project Location

Client/Project Name

26.11.25

93163

San Juan 29-6 # 7A

ANALYSIS/PARAMETERS

continued on next page

Chain of Custody Tape No

No. of Containers

BTEX
(8020)

Remarks

Sample No./
Identification

**Sample
Date**

**Sample
Time**

Lab Number

**Sample
Matrix**

7796

5011

-

1

Signature by: (Signature)

John D. [Signature]

Date _____

Time

Received by: (Signature)

Date _____

Time

Retinquished by: (Signature)

2/9/94 15:52

Received by: (Signature)

Read by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

Phillips Petroleum

ENVIROTECH Inc.

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

PIT No: PA001

C.O.C. #

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 29-6 #7A

DATE STARTED: 10/19/94

SOURCE LOCATION:

DATE FINISHED: 10/19/94

SOURCE LOCATION:

ENVIRONMENTAL
SPECIALIST: CJC

SOURCE LOCATION:

FACILITY CLASSIFICATION: onsite landform

PIT TYPE: SEP

SOIL REMEDIATION: QUANTITY: 133 yds # OF COMP. SAMPLES: 1
DIMENSIONS: 57' x 63' x 1'

VISIBLE OBSERVATIONS: Clay/sand, red, brown, dry, no odor.
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX. 22 YARDS NE FROM WELLHEAD.

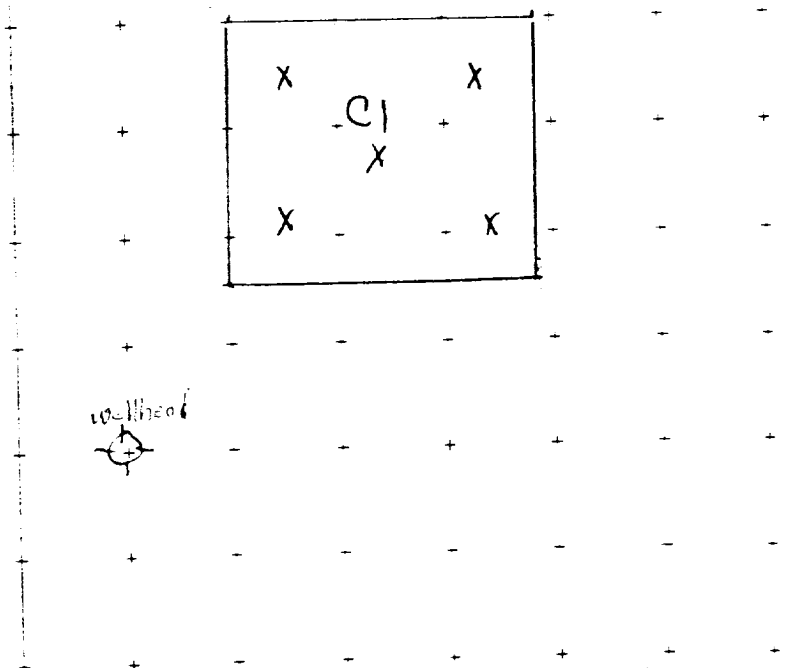
DEPTH TO GROUNDWATER 60
NEAREST WATER SOURCE/TYPE 1/4"
NEAREST SURFACE WATER 1/4"
MAX TPH PER NMOC 1000

No. OF 5-POINT
COMPOSITE SAMPLES
YARDAGE = #
1-1000=1
1001-2000=2
2001-3000=3
3001-4000=4
4001-5000=5

C1: $\frac{20 \text{ ml}}{10.14 \text{ g}} \times 12 \times 1 = 23.7 \text{ ppm TPH}$
#846

FACILITY DIAGRAM

GRID SCALE 1" = 20'



OVM RESULTS

SAMPLE ID: FIELD HEADSPACE ID (ppm)

C1 0.0

LAB RESULTS

SAMPLE ID: ANALYSIS REQUESTED: RESULTS PPM

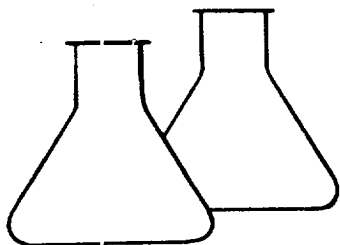
C1 TPH 24

NORTH

WELLHEAD

SURFACE
FLOW DIR.

ESTIMATED
GROUNDWATER
FLOW DIR.



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:	C1 - LANDFARM	Date Analyzed:	10-19-94
Project Location:	SAN JUAN 29-6, #7A	Date Reported:	10-21-94
Laboratory Number:	GAC0846	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Tota Recoverable Petroleum Hydrocarbons	24	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	98 *	96	1

*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 PA001

Jack Collins
Analyst

Morris Young
Review

**Risk Assessment
San Juan 29-6 #7A**

Depth to Groundwater	60'
Distance to Water Source	>1000'
Distance to Surface Water	>1000'
TPH Limit (ppm)	1000

The subject pit was located in hard, well cemented sandstone below a 2 foot layer of soft sandstone. The initial size of the pit was 15'x15'x4' deep. The stained soil was excavated to a final pit size of 20' x 20' x 17' deep. Excavated soil amounted to 219 total cubic yards, and was landfarmed on location.

The excavation was assessed by Envirotech on 8/9/94. The bottom of the excavation (17 ft. below ground level) had a high TPH reading of 4360 ppm and an OVM reading of 1098 ppm.. Excavation of the walls and bottom were performed on 8/9/94. Testing of the walls and bottom showed OVM levels ranging from 175.5 ppm on the West wall to 376 ppm on the bottom. The bottom was further tested for TPH and BTEX. Results of the testing revealed a TPH level of 6040 ppm, a Non-Detect reading of Benzene concentration and a Total BTEX of 1.13 ppm. The landfarm was tested on 10/19/94 by Envirotech and was found to be within closure guidelines (TPH = 24 ppm and an OVM reading of Non-Detect). The pit was subsequently filled (2/24/97) utilizing the landfarm soil.

On February 24, 1997, Cimarron Oilfield Services, utilizing a Geoprobe, bore a hole to approximately 28 feet in depth for purposes of determining vertical extent of stained soils. At 28 feet, a hard, well cemented sandstone was encountered below a 2 foot layer of soft sandstone. A sample at 28 feet was retrieved and submitted to Envirotech Labs for TPH and BTEX analysis utilizing EPA Method 8015 and EPA Method 8020 respectfully. Results provided a Non-Detect level of Benzene, Total BTEX level of 18.10 ppm, and a TPH level of 22.4 ppm. No groundwater was encountered, and first water was not recorded on the nearby cathodic well until a depth of 60 feet. The bore hole was backfilled with well cuttings and Bentonite.

Having achieved action levels below NMOCD and BLM requirements this pit should be considered to have reached "final closure". Phillips Petroleum has removed and remediated all soils to the extent practical. By filling the excavation, the driving force created by additional fluids will be eliminated. Based on this information and the physical location of the pit, there is little to no risk to human health or environment.

Location : San Juan 29 - 6 # 7 A		Overview of Pit Location and Sampling :																																																			
Quad : "E"	Section : 34																																																				
Township: 29N	Range: 6W																																																				
Pit : Separator	<table border="1"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVM(ppm)</th> <th>TPH</th> </tr> </thead> <tbody> <tr><td>1</td><td>@ 26 ft</td><td>623</td><td></td></tr> <tr><td>2</td><td>@ 28 ft</td><td>770</td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td></tr> </tbody> </table>	Sample #	Location	OVM(ppm)	TPH	1	@ 26 ft	623		2	@ 28 ft	770		3				4				5				6				7				8				9				10				11				12			
Sample #	Location	OVM(ppm)	TPH																																																		
1	@ 26 ft	623																																																			
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Reference : 65' S 45 E																																																					
From Wellhead																																																					
Pit Size : 20' x 20' x 17'																																																					
Depth to Groundwater : 60'	Soil Type : Brown, Silty Sandy Clay																																																				
Ranking Score : 10	Bedrock Encountered : Yes @ 28'																																																				
Closure Standard : 1000 ppm	Groundwater Encountered : No																																																				
Comments :	Pit backfilled with landfill material 0 to 26' : Soil is brown, sandy clay, wet, hydrocarbon odor is apparent. 26' to 28' : Soil is dry, yellow brown, soft sandstone with slight hydrocarbon odor. Total Depth reached is 28' due to BEDROCK. Bore hole was backfilled with Bentonite and well cuttings. Sample # 2, @ 28', was sent to Envirotech Labs for TPH (8015) & BTEX (8020) analysis.																																																				

[illegible]

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Bore Hole #1 @ 28'	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	02-24-97
Chain of Custody:	5078	Date Received:	02-24-97
Sample Matrix:	Soil	Date Analyzed:	02-25-97
Preservative:	Cool	Date Extracted:	02-25-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	17.5
Toluene	1,140	16.7
Ethylbenzene	911	15.2
p,m-Xylene	12,800	21.6
o-Xylene	3,260	10.4
Total BTEX	18,100	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	100 %

References: 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. 1994.

Comments: San Juan 29-6 #7A, Sep. Pit.


Analyst


Review

**QUALITY ASSURANCE / QUALITY CONTROL
DOCUMENTATION**

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-25-97
Laboratory Number:	02-25-BTEX.BLANK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-25-97
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.2
o-Xylene	ND	0.1

ND - Parameter not detected at the stated detection limit.

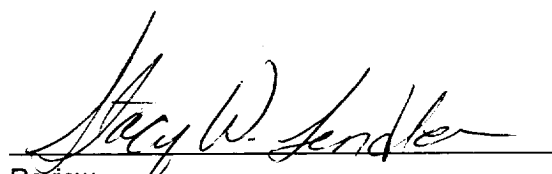
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: 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. 1994.

Comments: QA/QC for sample A975.


Analyst


Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	02-25-97
Concition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Difference
Benzene	ND	ND	17.5	0.0%
Toluene	1,140	1,140	16.7	0.0%
Ethylbenzene	911	936	15.2	2.8%
p,m-Xylene	12,800	13,400	21.6	4.5%
o-Xylene	3,260	3,340	10.4	2.6%

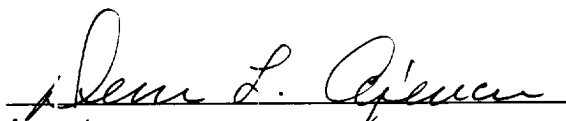
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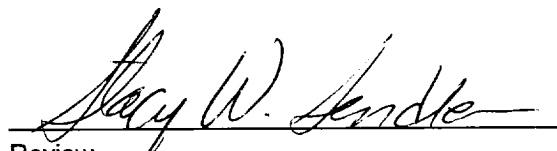
QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8020 Compounds	30 %

References: 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. 1994.

Comments: QA/QC for sample A975.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-25-97
Condition:	Cool and Intact	Date Analyzed:	02-25-97

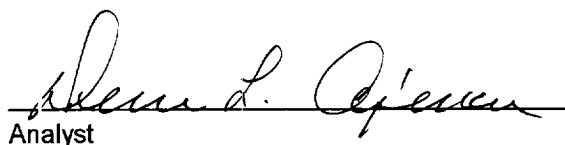
Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	50.0	49.5	17.5	99%	39-150
Toluene	1,140	50.0	1,190	16.7	100%	46-148
Ethylbenzene	911	50.0	960	15.2	100%	32-160
p,m-Xylene	12,800	100	12,900	21.6	100%	46-148
o-Xylene	3,260	50.0	3,310	10.4	100%	46-148

ND - Parameter not detected at the stated detection limit.

References: 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. 1994.

Comments: QA/QC for sample A975.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

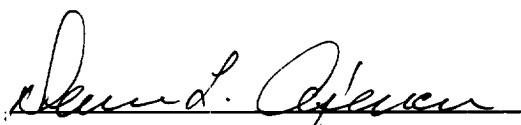
Client:	Phillips Petroleum	Project #:	93163
Sample ID:	Bore Hole #1 @ 28'	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	02-24-97
Chain of Custody No:	5078	Date Received:	02-24-97
Sample Matrix:	Soil	Date Extracted:	02-25-97
Preservative:	Cool	Date Analyzed:	02-25-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

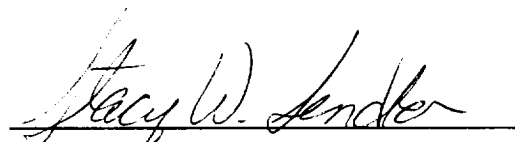
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	19.0	0.2
Diesel Range (C10 - C28)	3.4	0.1
Total Petroleum Hydrocarbons	22.4	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: San Juan 29-6 #7A, Sep. Pit.


Analyst


Review

QUALITY ASSURANCE / QUALITY CONTROL
DOCUMENTATION

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

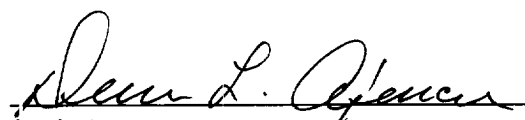
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-25-97
Laboratory Number:	02-25-TPH.BLANK	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-25-97
Condition:	N/A	Analysis Requested:	TPH

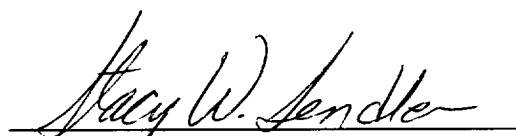
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for samples A975 - A976.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	02-25-97
Condition:	Cool and Intact	Analysis Requested:	TPH

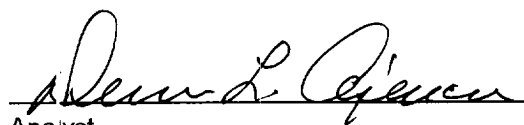
Parameter	Sample Result (mg/Kg)	Duplicate Result (mg/Kg)	Percent Difference
Gasoline Range (C5 - C10)	19.0	19.5	2.2%
Diesel Range (C10 - C28)	3.4	3.3	4.7%
Total Petroleum Hydrocarbons	22.4	22.8	1.1%

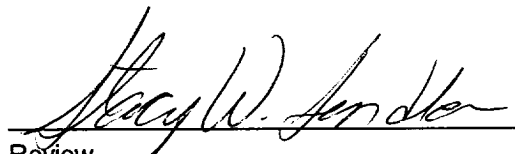
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Max Difference
	Petroleum Hydrocarbons	30%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for samples A975 - A976.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Hydrocarbons
Total Petroleum Hydrocarbons
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-25-97
Laboratory Number:	A975	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TPH	Date Analyzed:	02-25-97
Condition:	N/A		

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked Sample Result (mg/kg)	Det. Limit (mg/kg)	Percent Recovery
Gasoline Range (C5 - C10)	19.0	250	267	0.2	99%
Diesel Range (C10 - C28)	3.4	250	251	0.1	99%
Total Petroleum Hydrocarbons	22.4	500	518	0.2	99%

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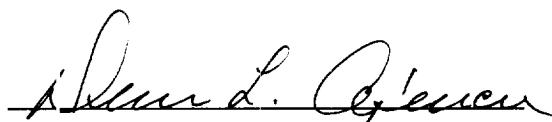
QA/QC Acceptance Criteria:	Parameter	Acceptance Range
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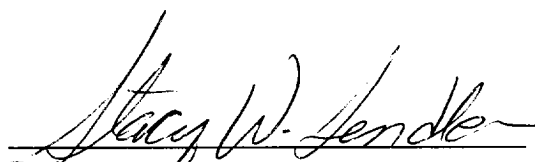
Petroleum Hydrocarbons

75 - 125%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **QA/QC for samples A975 - A976.**


Analyst


Review