

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

JUL 18 1997

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

*Approved*

**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

**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

505-599-3462

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

SE/NE, 1386 FNL & 1236 FEL

Section 16, T27N, R3W

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

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

Jicarilla Cont. # 90

7. If Unit or CA, Agreement Designation

Indian P

8. Well Name and No.

Indian P # 1

9. API Well No.

30-039-07094

10. Field and Pool, or Exploratory Area  
Pictured Cliffs &  
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.)\*

This well was plugged and abandoned on September 10, 1996 ~~per the attached report~~

The separator pit along with the associated landfarms were closed 12/6/96 and 12/12/96 per Jicarilla Environmental

Protection Office approval ( See attached report ). The location was recontoured and reseeded utilizing Jicarilla EPO approved seed.

in April of 1997.

**RECEIVED**  
MAY 22 1997  
**OIL CON. DIV.**  
DIST. 3

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

Signed

*Robert A. Winters*

Title Sr. Safety & Environ. Spclst.

Date

5-19-97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

**JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528**

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: Phillips Petroleum Company Telephone: 505-599-3462

Address: 5525 Highway 64 Farmington, NM 87401

Facility or Well Name: Indian P#1

Location: Unit or Qtr/Qtr Sec. H Sec. 16 T27N/R24W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Range

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MAY 22 1997

**OIL CON. DIV.**  
DIST. 3

Pit Location:  
(Attach diagram)

Pit dimensions: length 10, width 10, depth 7 - BEFORE EXCAVATION

Reference: wellhead ☒ other 25 12 - AFTER EXCAVATION

Footage from reference: 15

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

**Depth To Groundwater:**

(Vertical distance from  
contaminants to seasonal  
high water elevation of  
groundwater)

Less than 50 feet (20 points)  
☒ 50 feet to 99 feet (10 points)  
Greater than 100 feet (0 points) 10

**Distance to an Ephemeral Stream**

(Downgradient dry wash greater than  
ten feet in width)

Less than 100 feet (10 points)  
☒ Greater than 100 feet (0 points) 0

**Distance to Nearest Lake, Playa, or Watering Foud**  
(Downgradient lakes, playas and  
livestock or wildlife watering ponds)

Less than 100 feet (10 points)  
☒ Greater than 100 feet (0 points) 0

**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) 0

**Distance To Surface Water:**

(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

Less than 100 feet (20 points)  
100 feet to 1000 feet (10 points)  
☒ Greater than 1000 feet (0 points) 0

**RANKING SCORE (TOTAL POINTS):** 10

Date Remediation Started: 11-8-96 Date Completed: 11-11-96Remediation Method: Excavation ☒ Approx. cubic yards 167

(Check all appropriate sections)

Landfarmed ☒

Insitu Bioremediation \_\_\_\_\_

Other SamplingRemediation Location: Onsite ☒ Offsite India P#1 well site  
(i.e. landfarmed onsite, name and location of offsite facility)General Description of Remedial Action: Excavation & thin spreading in onsite land farmGroundwater Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_Final Pit: Sample location Composite of Pit walls & Bottom; see attached field notes & sample results.  
Closure Sampling: (if multiple samples, attach sample results and diagrams of sample locations and depths) Sample depth ~12'Sample date 11-11-96 Sample time 1330

## Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) NATotal BTEX (ppm) 2.66 Toluene (ppb) NAField Headspace (ppm) 1579 Ethylbenzene (ppb) NATPH (ppm) 370 Total Xylenes (ppb) NAGroundwater Sample: Yes \_\_\_\_\_ No ☒ (If yes, attach sample results)

HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11-15-96 PRINTED NAME C. Jack Collins, P.G.SIGNATURE C. Jack Collins AND TITLE Senior Scientist/Hydrogeologist

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) \_\_\_\_\_SIGNED: [Signature] DATE: 12/12/96OIL CON. DIV.  
DIST. 3  
MAY 22 1997

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

## ON-SITE SOIL REMEDIATION REPORT

|                                                                                                                                                      |                                                  |                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|
| Operator: <u>Phillips Petroleum Co</u> Telephone: <u>505-599-3462</u>                                                                                |                                                  | <b>RECEIVED</b><br>MAY 22 1997<br>OIL CON. DIV.<br>DIST. 3 |
| Address: <u>5525 Hwy 64 NBU 3004 Farmington, NM 87401</u>                                                                                            |                                                  |                                                            |
| Facility or Well Name: <u>INDIAN P#1</u>                                                                                                             |                                                  |                                                            |
| Location: Unit or Qtr/Qtr Sec <u>NE</u> Sec <u>16</u> T <u>27N</u> R <u>3W</u> County <u>Rio Arriba</u>                                              |                                                  |                                                            |
| Land Type: <u>RANGE</u>                                                                                                                              |                                                  |                                                            |
| Date Remediation Started: <u>11-11-96</u> Date Completed: <u>12-2-96</u>                                                                             |                                                  |                                                            |
| Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>167</u>                                                                               |                                                  |                                                            |
| Composted <u>    </u>                                                                                                                                |                                                  |                                                            |
| Other <u>    </u>                                                                                                                                    |                                                  |                                                            |
| Depth To Groundwater: (pts.) <u>10</u>                                                                                                               | Final Closure Sampling:                          |                                                            |
| Distance to an Ephemeral Stream (pts.) <u>0</u>                                                                                                      | Sampling Date: <u>11-26-96</u> Time: <u>1342</u> |                                                            |
| Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>                                                                                    | Sample Results:                                  |                                                            |
| Wellhead Protection Area: (pts.) <u>0</u>                                                                                                            | <u>RTX = 0.945 ppm</u>                           |                                                            |
| Distance To Surface Water: (pts.) <u>0</u>                                                                                                           | <u>Field Headspace (ppm) = 393</u>               |                                                            |
| RANKING SCORE (TOTAL POINTS): <u>10</u>                                                                                                              | TPH (ppm) <u>77</u> Method <u>418.1</u>          |                                                            |
| Other <u>    </u>                                                                                                                                    |                                                  |                                                            |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                              |                                                  |                                                            |
| DATE <u>12-3-96</u> PRINTED NAME <u>C. Jack Collins, P.G.</u>                                                                                        |                                                  |                                                            |
| SIGNATURE <u>C. Jack Collins</u> AND TITLE <u>Senior Scientist/Hydrogeologist</u>                                                                    |                                                  |                                                            |
| AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. |                                                  |                                                            |
| APPROVED: YES <u>X</u> NO <u>    </u> (REASON) <u>    </u>                                                                                           |                                                  |                                                            |
| SIGNED: <u>Ken C. Mann</u> DATE: <u>12-6-96</u>                                                                                                      |                                                  |                                                            |

# ENVIROTECH Inc.

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

PIT NO: \_\_\_\_\_

C.O.C. NO: \_\_\_\_\_

## FIELD REPORT: SITE ASSESSMENT

JOB No. 93163-01  
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT  
CLIENT: PHILLIPS PETROLEUM  
CONTRACTOR: ENVIROTECH, INC.  
EQUIPMENT USED: \_\_\_\_\_

DATE STARTED: 11-8-96  
DATE FINISHED: 11-11-96  
ENVIRO. SPCLT: CJC  
OPERATOR: Keith  
ASSISTANT: \_\_\_\_\_

LOCATION: LEASE: Indian WELL: P #1 QD: H  
SEC: 16 TWP: 27N RNG: 3W PM: NM CNTY: R. Arr ST: NM PIT: Sep.

LAND USE: Range

SURFACE CONDITIONS: \_\_\_\_\_

PIT CENTER IS LOCATED APPROXIMATELY 15 FEET NE OF WELLHEAD.

Pit is 12' x 12' x 7'

### FIELD 418.1 CALCULATIONS TPH

| SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|-------------|---------|------------|-----------|----------|---------|-----------|
| T1 @ 8'     | 1236    | 10.52      | 20        | 1        | 517     | 982       |
| T1 @ 13'    | 1237    | 10.97      | 20        | 1        | 57      | 103       |
|             |         |            |           |          |         |           |
|             |         |            |           |          |         |           |

DEPTH TO GROUNDWATER: 875'  
NEAREST WATER SOURCE/TYPE: >1000'  
NEAREST SURFACE WATER: >1000'  
NMCD RANKING SCORE: 10  
NMCD TPH CLOSURE STD: 1000ppm

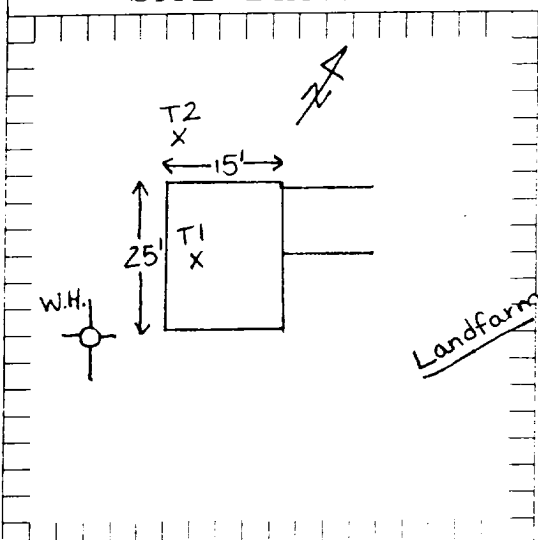
### SAMPLE INVENTORY

| SMPL ID | SMPL TYPE | LABORATORY ANALYSIS |
|---------|-----------|---------------------|
| None    |           |                     |
|         |           |                     |
|         |           |                     |
|         |           |                     |

SCALE

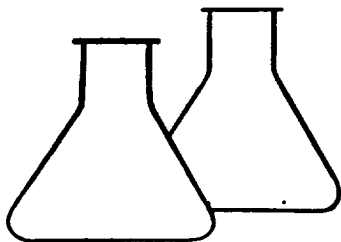


FEET  
SITE DIAGRAM



| TH#: | SOIL TYPE: | SMPL TYPE: | OVMTYPE: | TH#: | SOIL TYPE: | SMPL TYPE: | OVMTYPE: | TH#: | SOIL TYPE: | SMPL TYPE: | OVMTYPE: | TH#: | SOIL TYPE: | SMPL TYPE: | OVMTYPE: |
|------|------------|------------|----------|------|------------|------------|----------|------|------------|------------|----------|------|------------|------------|----------|
| 1    |            |            |          | 2    |            |            |          |      |            |            |          |      |            |            |          |
| 2    |            |            |          | 2    |            |            |          |      |            |            |          |      |            |            |          |
| 4    |            |            |          | 4    |            |            |          |      |            |            |          |      |            |            |          |
| 6    |            |            |          | 6    |            |            |          |      |            |            |          |      |            |            |          |
| 8    |            |            |          | 8    |            |            |          |      |            |            |          |      |            |            |          |
| 10   |            |            |          | 10   |            |            |          |      |            |            |          |      |            |            |          |
| 12   |            |            |          | 12   |            |            |          |      |            |            |          |      |            |            |          |
| 14   |            |            |          | 14   |            |            |          |      |            |            |          |      |            |            |          |

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



# 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

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OIL CON. DIV.  
DIST. 3

|                    |                            |                |          |
|--------------------|----------------------------|----------------|----------|
| Client:            | Phillips Petroleum Company | Project #:     | 93163-01 |
| Sample ID:         | T1 @ 8'                    | Date Analyzed: | 11/08/96 |
| Project Location:  | Indian P #1: S16 T27N R3W  | Date Reported: | 11/14/96 |
| Laboratory Number: | GAC1236                    | Sample Matrix: | Soil     |

| <u>Parameter</u>                            | <u>Result, mg/kg</u> | <u>Detection<br/>Limit, mg/kg</u> |
|---------------------------------------------|----------------------|-----------------------------------|
| Total Recoverable<br>Petroleum Hydrocarbons | 980                  | 10                                |

ND = Not Detectable at stated detection limits.

|        |              |           |        |
|--------|--------------|-----------|--------|
| QA/QC: | QA/QC Sample | Duplicate | %      |
|        | TPH mg/kg    | TPH mg/kg | *Diff. |
|        | 580          | 510       | 13     |

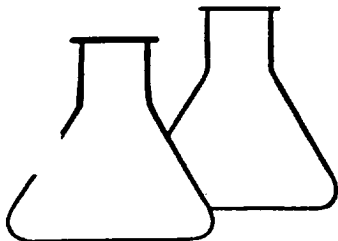
\*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit

Jack Collins  
Analyst

Shaharaz  
Review



# ENVIROTECH LABS

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

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OIL CON. DIST. 3

## FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                    |                            |                |          |
|--------------------|----------------------------|----------------|----------|
| Client:            | Phillips Petroleum Company | Project #:     | 93163-01 |
| Sample ID:         | T1 @ 13'                   | Date Analyzed: | 11/08/96 |
| Project Location:  | Indian P #1: S16 T27N R3W  | Date Reported: | 11/14/96 |
| Laboratory Number: | GAC1237                    | Sample Matrix: | Soil     |

| <u>Parameter</u>                            | <u>Result, mg/kg</u> | <u>Detection<br/>Limit, mg/kg</u> |
|---------------------------------------------|----------------------|-----------------------------------|
| Total Recoverable<br>Petroleum Hydrocarbons | 100                  | 10                                |

ND = Not Detectable at stated detection limits.

|        |              |           |        |
|--------|--------------|-----------|--------|
| QA/QC: | QA/QC Sample | Duplicate | %      |
|        | TPH mg/kg    | TPH mg/kg | *Diff. |
|        | 580          | 510       | 13     |

\*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

Jack Collins  
Analyst

Lu Shabbar  
Review

CLIENT: PHILLIPS PETROLEUM**ENVIROTECH Inc.**

PIT NO: \_\_\_\_\_

5798 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0815C.D.C. NO: 5001**FIELD REPORT: CLOSURE VERIFICATION**JOB No: 93163PAGE No: 1 of 1LOCATION: NAME: Indian WELL #: P #1 PIT: Sep.DATE STARTED: 11-8-96DATE FINISHED: 11-11-96QUAD/UNIT: H SEC: 16 TWP: 27N RNG: 3W BM: NM CNTY: R.A. ST: NMENVIRONMENTAL  
SPECIALIST: CJC

QTR/FOOTAGE: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 25 FT. x 12 FT. DEEP.DISPOSAL FACILITY: Landfarm CUBIC YARDAGE: 175LAND USE: Range LEASE: \_\_\_\_\_FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 15 FEET NW FROM WELLHEAD.DEPTH TO GROUNDWATER: >75' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPMSOIL AND EXCAVATION DESCRIPTION: 0 - 5' Clay brown, dry, slight odor  
10 -12' Clay tan, brown, grey, strong odor**RECEIVED**  
MAY 22 1997

## FIELD 418.1 CALCULATIONS

| SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|-------------|---------|------------|-----------|----------|---------|-----------|
| W.Wall@12'  | 1238    | 10.13      | 20        | 1        | 322     | 636       |
| Comp. @12'  | 1239    | 10.04      | 20        | 1        | 183     | 365       |

**OIL CON. LOG**  
DIST. 3

SCALE



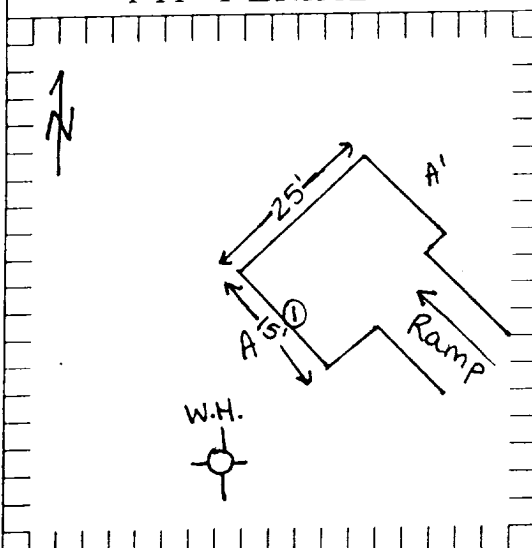
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FEET

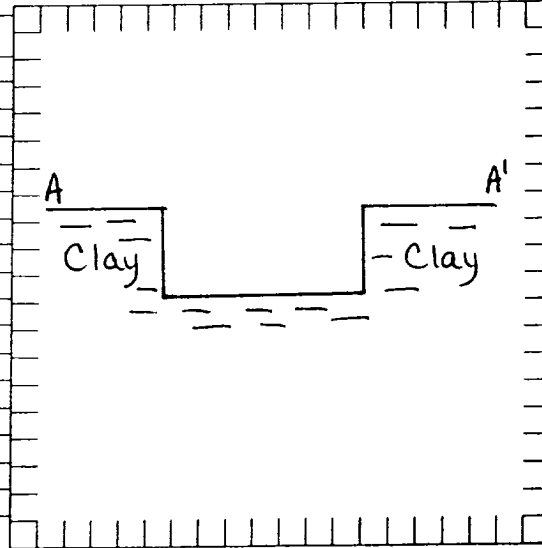
## PIT PERIMETER

OVM  
RESULTS

## PIT PROFILE

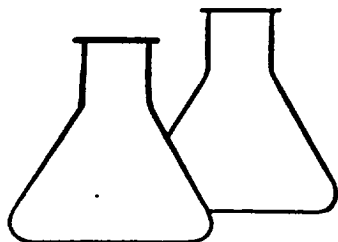


| SAMPLE ID   | FIELD HEADSPACE PID (ppm) |
|-------------|---------------------------|
| 1W.Wall@12' | 1560                      |
| 2Comp.@12'  | 1579                      |
| 3           |                           |
| 4           |                           |
| 5           |                           |
| LAB SAMPLES |                           |
| Comp.@12'   | BTEX                      |



TRAVEL NOTES:

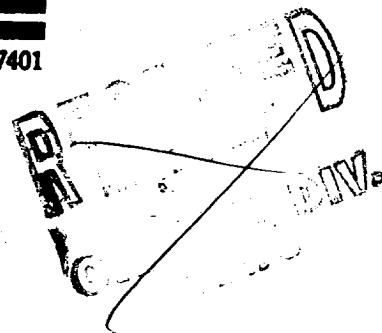
CALLOUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_



# 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 Company | Project #:     | 93163-01 |
| Sample ID:         | WW @ 12'                   | Date Analyzed: | 11/11/96 |
| Project Location:  | Indian P #1: S16 T27N R3W  | Date Reported: | 11/14/96 |
| Laboratory Number: | GAC1238                    | Sample Matrix: | Soil     |

| <u>Parameter</u>                         | <u>Result, mg/kg</u> | <u>Detection Limit, mg/kg</u> |
|------------------------------------------|----------------------|-------------------------------|
| Total Recoverable Petroleum Hydrocarbons | 640                  | 10                            |

ND = Not Detectable at stated detection limits.

|        |                           |                        |             |
|--------|---------------------------|------------------------|-------------|
| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*Diff. |
|        | 580                       | 510                    | 13          |

\*Administrative Acceptance limits set at 30%.

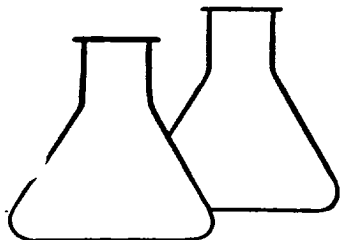
Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

RECEIVED  
MAY 22 1997  
OIL CON. DIV.  
DIST. 3

Comments: Separator Pit

Jack Collins  
Analyst

Shobana  
Review



# ENVIROTECH LABS

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

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OIL CON. DET.  
DIST. 3

## FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                    |                            |                |          |
|--------------------|----------------------------|----------------|----------|
| Client:            | Phillips Petroleum Company | Project #:     | 93163-01 |
| Sample ID:         | Composite @ 12'            | Date Analyzed: | 11/11/96 |
| Project Location:  | Indian P #1: S16 T27N R3W  | Date Reported: | 11/14/96 |
| Laboratory Number: | GAC1239                    | Sample Matrix: | Soil     |

| Parameter                                | Result, mg/kg | Detection Limit, mg/kg |
|------------------------------------------|---------------|------------------------|
| Total Recoverable Petroleum Hydrocarbons | 370           | 10                     |

ID = Not Detectable at stated detection limits.

|        |                                |                             |             |
|--------|--------------------------------|-----------------------------|-------------|
| QA/QC: | QA/QC Sample<br>_____TPH mg/kg | Duplicate<br>_____TPH mg/kg | %<br>*Diff. |
|        | 580                            | 510                         | 13          |

\*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

Jack Collins  
Analyst

Lu Chaharlang  
Review

# ENVIROTECH LABS

CRITICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | Phillips Petroleum | Project #:          | 93163    |
| Sample ID:         | Comp. @ 12'        | Date Reported:      | 11-12-96 |
| Laboratory Number: | A735               | Date Sampled:       | 11-11-96 |
| Chain of Custody:  | 5001               | Date Received:      | 11-11-96 |
| Sample Matrix:     | Soil               | Date Analyzed:      | 11-12-96 |
| Preservative:      | Cool               | Date Extracted:     | 11-12-96 |
| Condition:         | Cool & Intact      | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 11.7                     |
| Toluene      | 74.2                     | 11.1                     |
| Ethylbenzene | ND                       | 10.1                     |
| p,m-Xylene   | 1,460                    | 14.4                     |
| o-Xylene     | 1,130                    | 6.9                      |
| Total BTEX   | 2,660                    |                          |

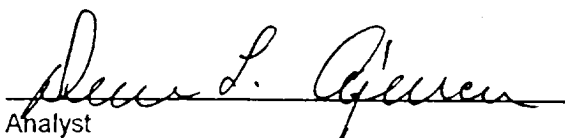
ND - Parameter not detected at the stated detection limit.

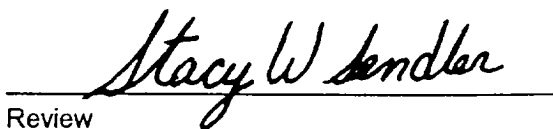
| Surrogate Recoveries: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Trifluorotoluene   | 97 %             |
|                       | Bromofluorobenzene | 99 %             |

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: Indian P #1 Sep. Pit.

  
Analyst

  
Review

## 5001

CON. DIV.  
DIST. 3

**ENVIROTECH INC.**  
5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401  
(505) 32-0615

**ENVIROTECH Inc.**5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615PIT No: \_\_\_\_\_  
C.O.C #: 5015

PHILLIPS PETROLEUM COMPANY

**FIELD REPORT: REMEDIATION FACILITY  
CLOSURE VERIFICATION**JOB No: 93163-01  
PAGE No: 1 of 1FACILITY LOCATION: Indian P #1DATE STARTED: 11-26-96  
DATE FINISHED: \_\_\_\_\_

SOURCE LOCATION: \_\_\_\_\_

SOURCE LOCATION: \_\_\_\_\_

SOURCE LOCATION: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: CJCFACILITY CLASSIFICATION: Landfarm PIT TYPE: Sep.SOIL REMEDIATION: QUANTITY: 65 cy # OF COMP. SAMPLES: 1DIMENSIONS: 50' x 70' x 0.5'

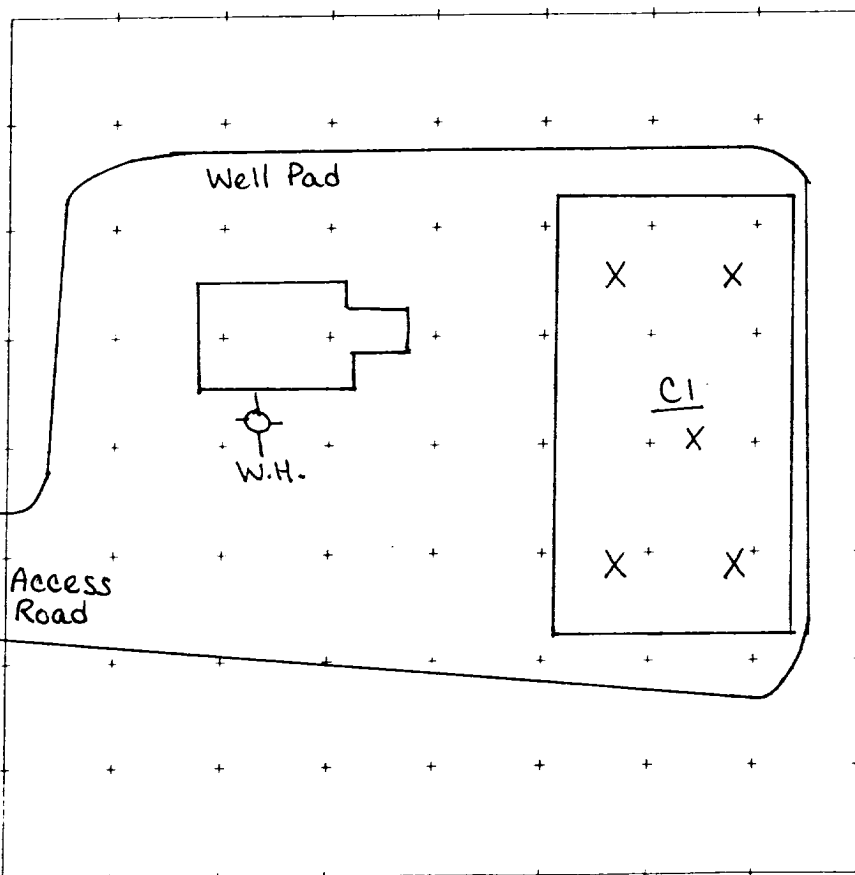
VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: 1 5-point compositeFIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 18 YARDS East FROM WELLHEAD.DEPTH TO GROUNDWATER: >75'NEAREST WATER SOURCE/TYPE: >1000'NEAREST SURFACE WATER: >1000'MAX TPH PER NMDCD: 1000ppm

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

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DIST. 3**FACILITY DIAGRAM**

GRID SCALE:

**OVM  
RESULTS**

| SAMPLE ID: | FIELD HEADSPACE PID (ppm) |
|------------|---------------------------|
| C1         | 393                       |
|            |                           |
|            |                           |
|            |                           |
|            |                           |
|            |                           |
|            |                           |
|            |                           |

**LAB  
RESULTS**

| SAMPLE ID: | ANALYSIS REQUESTED | RESULTS PPM |
|------------|--------------------|-------------|
| C1         | BTEX               | TPH         |
|            |                    |             |
|            |                    |             |
|            |                    |             |
|            |                    |             |
|            |                    |             |
|            |                    |             |
|            |                    |             |

NORTH

WELLHEAD

SURFACE  
FLOW DIR.ESTIMATED  
GROUNDWATER  
FLOW DIR.

# ENVIROTECH LABS

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                      |                    |                  |           |
|----------------------|--------------------|------------------|-----------|
| Client:              | Phillips Petroleum | Project #:       | *93163-01 |
| Sample ID:           | Indian P #1 C1 LF  | Date Reported:   | 12-04-96  |
| Laboratory Number:   | A774               | Date Sampled:    | 11-26-96  |
| Chain of Custody No: | 5015               | Date Received:   | 11-26-96  |
| Sample Matrix:       | Soil               | Date Extracted:  | 12-04-96  |
| Preservative:        | Cool               | Date Analyzed:   | 12-04-96  |
| Condition:           | Cool and Intact    | Analysis Needed: | TPH-418.1 |

| Parameter                    | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 77.0                     | 5.0                      |

ND = Parameter not detected at the stated detection limit.

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

Comments:

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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | Phillips Petroleum | Project #:          | 93163-01 |
| Sample ID:         | Indian P #1 C1 LF  | Date Reported:      | 11-27-96 |
| Laboratory Number: | A774               | Date Sampled:       | 11-26-96 |
| Chain of Custody:  | 5015               | Date Received:      | 11-26-96 |
| Sample Matrix:     | Soil               | Date Analyzed:      | 11-27-96 |
| Preservative:      | Cool               | Date Extracted:     | 11-27-96 |
| Condition:         | Cool & Intact      | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 11.7                     |
| Toluene      | 57.5                     | 11.1                     |
| Ethylbenzene | 60.3                     | 10.1                     |
| p,m-Xylene   | 561                      | 14.4                     |
| o-Xylene     | 267                      | 6.9                      |
| Total BTEX   | 945                      |                          |

ND - Parameter not detected at the stated detection limit.

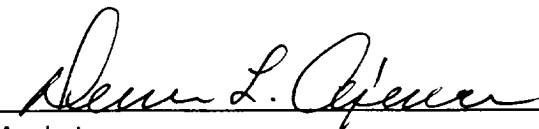
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| Surrogate Recoveries: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Trifluorotoluene   | 100 %            |
|                       | Bromofluorobenzene | 99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

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:

  
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Farmington, New Mexico 87401

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