

District I  
P.O. Box 1980, Hobbs, NM 88240  
District II  
P.O. Drawer DD, Aztec, NM 87412  
District III  
1000 Rio Brazos Rd, Aztec, NM 87412

State of New Mexico  
Energy, Minerals and Natural Resources Department  
DEPUTY OIL & GAS INSPECTOR  
OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

*Denny L. Faust*  
JUN 16 1997

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

## PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum Company Telephone: 505-599-3400  
Address: 5525 Hwy. 64, NBU 3004, Farmington, NM 87401  
Was  
Facility Or: San Juan 32-7 #58: (Now San Juan 32-7 #29A)  
Well Name  
Location: Unit or Qtr/Qtr Sec SW NE 18 T 32N R 7W County San Juan  
Pit Type: Separator X Dehydrator        Other         
Land Type: BLM        State        Fee X Other       

Pit Location: Pit dimensions: Length 22', width 22', depth 13'  
Attach diagram) Reference: wellhead X, other         
Footage from reference: 45'  
Direction from reference: 45' Degrees X East North         
of  
West South X

Depth to Ground Water: 120'  
Vertical distance from  
contaminants to seasonal  
groundwater elevation of  
ground water) X

|                       |             |          |
|-----------------------|-------------|----------|
| 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  
100 feet from all other water sources) X

|     |             |          |
|-----|-------------|----------|
| Yes | (20 points) |          |
| No  | ( 0 points) | <u>0</u> |

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

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

P:\pits\PITCFRM.WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 6/21/94 Dated Completed: 10/14/94

Excavation ☒ Approx. cubic yards 119

Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Method: Onsite ☒ Offsite \_\_\_\_\_  
(Check all appropriate sections)

General Description of Remedial Action: Based on the initial assessment, soils were excavated to a depth of 9 feet below the original bottom. The soils were landfarmed on location. The excavation tested clean on 6/21/94. The landfarm tested clean on 10/14/94. The landfarmed soils were then used to fill the excavation.

Ground Water Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location Individual samples were collected from each wall and the bottom of the excavation.

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

Sample depth South wall @ 5'

Sample date 6/21/94 Sample time \_\_\_\_\_

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (PPM) \_\_\_\_\_

Field Headspace (ppm) 1

TPH 20

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (If yes, attach sample results)

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

DATE 2-14-97

PRINTED NAME Bob Wirtanen

SIGNATURE Robert A. Wirtanen

and TITLE Sr. Safety & Environmental Specialist

COPY

## ENVIROTECH Inc.

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

PIT NO: PA046

C.O.C. NO: 2817

## FIELD REPORT: SITE ASSESSMENT

JOB No: 93163

PAGE No: 1 of 1

PROJECT: PIT ASSESSMENT

CLIENT: PHILLIPS PETROLEUM

CONTRACTOR: ENVIROTECH INC.

EQUIPMENT USED: JOB EXTENDAHOE

DATE STARTED: 7-12-93

DATE FINISHED: 7-12-93

ENVIRO. SPCLT: REO

OPERATOR: Cimarron

ASSISTANT:

LOCATION: LEASE: San Juan 32-7 WELL: #58 QD: 2360' FNL, 1840' FEL (G)  
SEC: 18 TWP: 32N RNG: 7W PM: NM CNTY: S.J. ST: NM PIT: SEP.

LAND USE: Range - Lease - Fee

SURFACE CONDITIONS: Earthen pit - Dry with dead &amp; live weeds - Some trash in bottom

PIT CENTER IS LOCATED APPROXIMATELY 45 FEET S. 45° E. OF WELLHEAD.

CLOSURE STD: —

RANKING SCORE: —

T1: Organic, silt clay - gray, moist, plastic  
T2: Moist->Dry, hard, stiff silty, sandy, clay.

## TEST HOLE LOGS

| SAMPLE INVENTORY |           |                     |
|------------------|-----------|---------------------|
| SMPL ID          | SMPL TYPE | LABORATORY ANALYSIS |
| T1@13'           | Soil      | 418.1               |
|                  |           |                     |
|                  |           |                     |
|                  |           |                     |

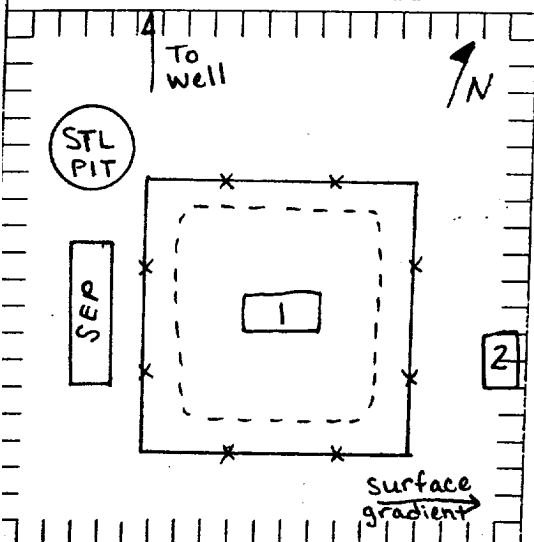
SCALE



22'x22'

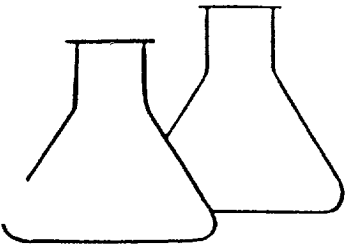
0 5 10 FEET

## SITE DIAGRAM



| TH#:       | 1          | TH#:    | 2          | TH#:       |         | TH#:       |            |
|------------|------------|---------|------------|------------|---------|------------|------------|
| SOIL TYPE: | SMPL TYPE: | OVM/TPH | SOIL TYPE: | SMPL TYPE: | OVM/TPH | SOIL TYPE: | SMPL TYPE: |
| GD         |            |         |            |            |         |            |            |
| 1          |            |         |            |            |         |            |            |
| 2          |            |         |            |            |         |            |            |
| 3          |            |         |            |            |         |            |            |
| 4          | Pit bottom |         |            |            |         |            |            |
| 5          | OHGRB 1858 |         |            |            |         |            |            |
| 6          | Gray       |         | CLGRB 2.1  |            |         |            |            |
| 7          | OHGRB 691  |         |            |            |         |            |            |
| 8          |            |         |            |            |         |            |            |
| 9          |            |         |            |            |         |            |            |
| 10         |            |         |            |            |         |            |            |
| 11         | CL Brown   |         | CLGRB 1.1  |            |         |            |            |
| 12         |            |         |            |            |         |            |            |
| 13         | CLGRB 100  |         | CLGRB 1.1  |            |         |            |            |
| 14         | TD=13'     |         | TD=13'     |            |         |            |            |

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



# ELVIROTECH LABS

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

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                    |               |                  |          |
|--------------------|---------------|------------------|----------|
| Client:            | Phillips      | Project #:       | 93163    |
| Sample ID:         | T1 @ 13'      | Date Sampled:    | 07-12-93 |
| Laboratory Number: | 5676          | Date Received:   | 07-12-93 |
| Sample Matrix:     | Soil          | Date Analyzed:   | 07-15-93 |
| Preservative:      | Cool          | Date Reported:   | 07-15-93 |
| Condition:         | Cool & Intact | Analysis Needed: | TPH      |

| Parameter<br>-----              | Concentration<br>(mg/kg)<br>----- | Det.<br>Limit<br>(mg/kg)<br>----- |
|---------------------------------|-----------------------------------|-----------------------------------|
| Total Petroleum<br>Hydrocarbons | 68                                | 5.0                               |

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

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

Comments: San Juan 32-7 #58, Separator Pit, PA046.

An Chaharley  
Analyst

Marie D. Young  
Review



\*Revised by MDR 3-13-97

CLIENT: PHILLIPS PETROLEUM

**ENVIROTECH Inc.**

PIT NO: PA046

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

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

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 93163

PAGE No: 1 of 1

LOCATION: NAME: San Juan 32-7 WELL #: 58 PIT: Sep

DATE STARTED: 7-12-81

QUAD/UNIT: G SEC: 18 TWP: 32N RNG: 7W BM: NM CNTY: SJ ST: NM

DATE FINISHED: 6/21/94

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

ENVIRONMENTAL  
SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 22 FT. x 22 FT. x 13 FT. DEEP.  
DISPOSAL FACILITY: Landfarmed on-site CUBIC YARDAGE: \_\_\_\_\_  
LAND USE: Range LEASE: Fee

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 45 FEET S45E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 120'\* NEAREST WATER SOURCE: 200-1000 NEAREST SURFACE WATER: >1000

NMCD RANKING SCORE: 10 \* NMCD TPH CLOSURE STD: 1000\* PPM

## SOIL AND EXCAVATION DESCRIPTION:

Silt and clay with sand, light brown, slightly moist, cohesive  
Excavation extended slightly south (within fence limits) for 3A

## FIELD 418.1 CALCULATIONS

|       | SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|-------|-------------|---------|------------|-----------|----------|---------|-----------|
| South | 3 @ 5'      | 571     | 10         | 20        | —        | 1412    | 2824      |
| South | 3A @ 5'     | 574     | 10         | 20        | —        | 10      | 20        |
|       |             |         |            |           |          |         |           |

SCALE

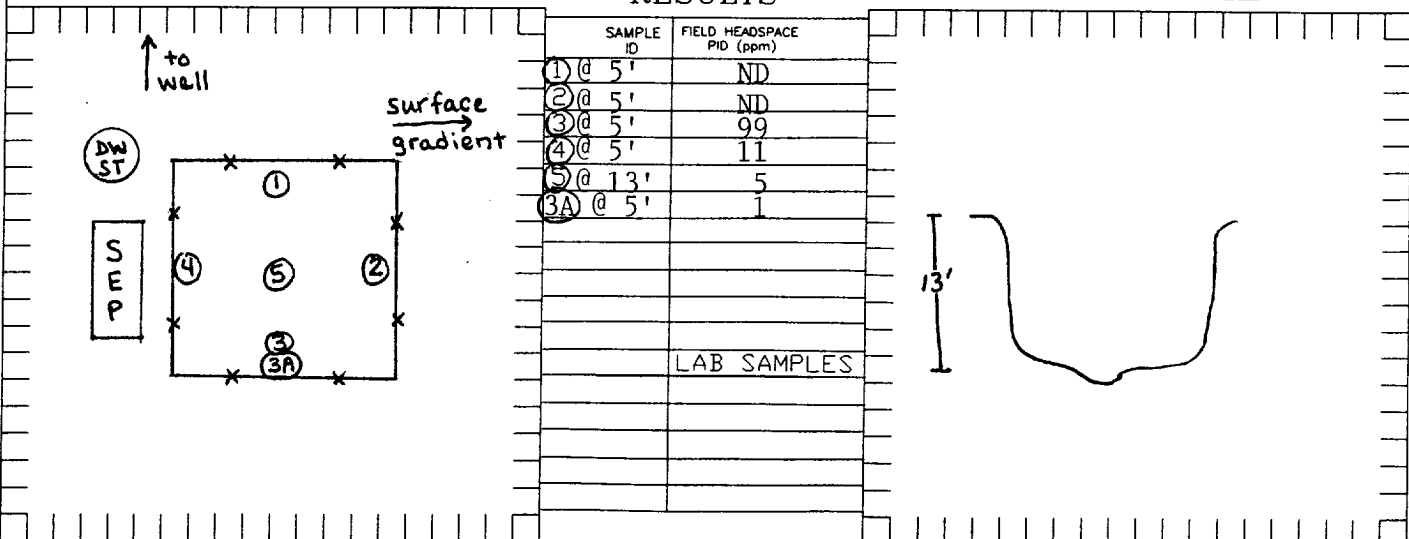


0 FEET

# PIT PERIMETER

## OVM RESULTS

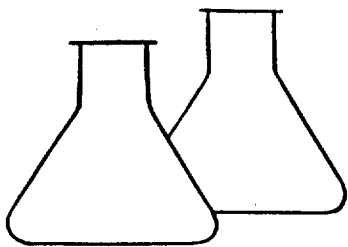
PIT PROFILE



TRAVEL NOTES: CALLOUT: 6/21/94 ONSITE: 6/21/94

COPY

COPY



# 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  
Sample ID: 3 @ 5'  
Project Location: San Juan 32-7 #58  
Laboratory Number: GAC0571

Project #: 93163  
Date Analyzed: 6-21-94  
Date Reported: 6-24-94  
Sample Matrix: Soil

| Parameter                                | Result, mg/kg | Detection Limit, mg/kg |
|------------------------------------------|---------------|------------------------|
| -----                                    | -----         | -----                  |
| Total Recoverable Petroleum Hydrocarbons | 2,824         | 10                     |

ND = Not Detectable at stated detection limits.

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

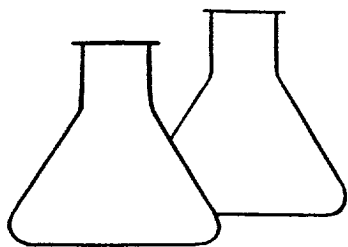
\*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA046

Christine Gault  
Analyst

Morris D. Young  
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:         | 3A @ 5'            | Date Analyzed: | 6-21-94 |
| Project Location:  | San Juan 32-7 #58  | Date Reported: | 6-24-94 |
| Laboratory Number: | GAC0574            | Sample Matrix: | Soil    |

| Parameter                                   | Result, mg/kg | Detection Limit, mg/kg |
|---------------------------------------------|---------------|------------------------|
| -----                                       | -----         | -----                  |
| Total Recoverable<br>Petroleum Hydrocarbons | 20            | 10                     |

ND = Not Detectable at stated detection limits.

| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*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 PA046

Christie Ganthier  
Analyst

Maris D Young  
Review

REC. NO. \_\_\_\_\_

FIELD REPORT: CLOSURE VERIFICATION

Case No: \_\_\_\_\_

PAGE No: \_\_\_\_\_ of: \_\_\_\_\_

LOCATION: NAME: WELL #: PIT:  
QUAD/UNIT: SEC: TWP: RNG: BM: CNTY: ST:  
QTR/FOOTAGE CONTRACTOR:

DATE STARTED: \_\_\_\_\_  
DATE FINISHED: 6-21-94

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

SOIL REMEDIATION: EXCAVATION APPROX. \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP.  
DISPOSAL FACILITY: \_\_\_\_\_ CUBIC YARDAGE: \_\_\_\_\_  
LAND USE: \_\_\_\_\_ LEASE: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY \_\_\_\_\_ FEET \_\_\_\_\_ FROM WELLHEAD  
DEPTH TO GROUNDWATER: \_\_\_\_\_ NEAREST WATER SOURCE: \_\_\_\_\_ NEAREST SURFACE WATER: \_\_\_\_\_  
NMOC RANKING SCORE: \_\_\_\_\_ NMOC TPH CLOSURE STD: \_\_\_\_\_ PPM

SOIL AND EXCAVATION DESCRIPTION:

landform sample (S of San Juan 32-7 #58) - dry, light brown, sand w/silt & ck  
" " (W " " ) - "

FIELD 418.1 CALCULATIONS

| FIELD 418: CALCULATIONS |         |            |           |          |         |           |
|-------------------------|---------|------------|-----------|----------|---------|-----------|
| SAMPLE I.D.             | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
| LF-south                | 572     | 10         | 20        | -        | 91      | 182       |
| LF-west                 | 573     | 10         | 20        | -        | 6       | 12        |
|                         |         |            |           |          |         |           |

SCALE



0

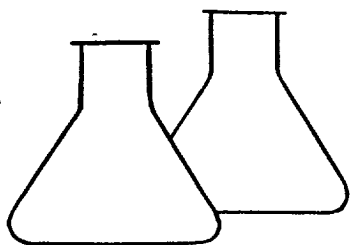
FEET

PIT PERIMETER

## OVM RESULTS

# PIT PROFILE

[illegible]



# 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:         | Landfarm - south   | Date Analyzed: | 6-21-94 |
| Project Location:  | San Juan 32-7 #58  | Date Reported: | 6-24-94 |
| Laboratory Number: | GAC0572            | Sample Matrix: | Soil    |

| Parameter                                | Result, mg/kg | Detection Limit, mg/kg |
|------------------------------------------|---------------|------------------------|
| Total Recoverable Petroleum Hydrocarbons | 182           | 10                     |

ND = Not Detectable at stated detection limits.

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

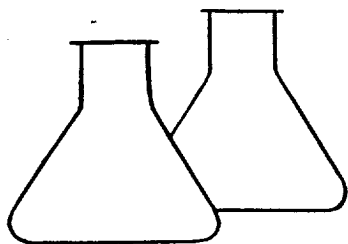
\*Administrative Acceptance limits set at 30%.

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

Comments: Separator Pit PA046

Christine Gault  
Analyst

Morris D. Young  
Review



# 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:         | Landfarm - west    | Date Analyzed: | 6-21-94 |
| Project Location:  | San Juan 32-7 #58  | Date Reported: | 6-24-94 |
| Laboratory Number: | GAC0573            | Sample Matrix: | Soil    |

| Parameter                                | Result, mg/kg | Detection Limit, mg/kg |
|------------------------------------------|---------------|------------------------|
| Total Recoverable Petroleum Hydrocarbons | 12            | 10                     |

ND = Not Detectable at stated detection limits.

| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*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 PA046

Christine Gentry  
Analyst

Morris D. Young  
Review

# ENVIROTECH Inc.

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

FIT No. PA 046  
C.O.C. #

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 93163  
PAGE No: 1

FACILITY LOCATION: San Juan 32-7, #58

SOURCE LOCATION:

SOURCE LOCATION:

SOURCE LOCATION:

FACILITY CLASSIFICATION: On site landfarm PIT TYPE: seep

DATE STARTED: 10/14/94  
DATE FINISHED: 10/17/94

ENVIRONMENTAL  
SPECIALIST: CWL

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: 6' x 5' x 1'

VISIBLE OBSERVATIONS: Clay, Sand, green, dry, no odor  
SAMPLING PLAN:

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 32 YARDS S FROM WELLHEAD.

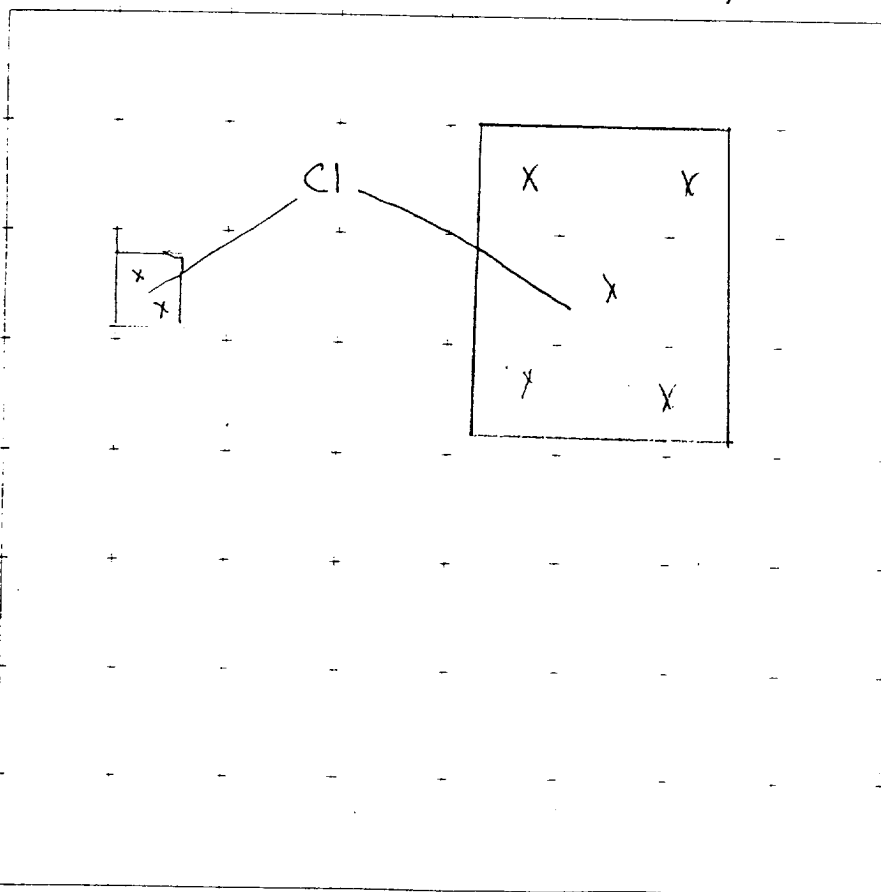
DEPTH TO GROUNDWATER: > 50'  
NEAREST WATER SOURCE TYPE: 800' / Pipe R.  
NEAREST SURFACE WATER: 1000'  
MAX TPH PER NMOC: 1000

NO. OF 5-POINT  
COMPOSITE SAMPLES:  
RANGE--#  
0-200=1  
201-400=2  
401-1000=3  
1000=5

CI: #839  $\frac{20 \text{ ml}}{10.32 \text{ g}} \times 1 \times 121 = 234 \text{ ppm TPH}$

## FACILITY DIAGRAM

GRID SCALE 1" = 40'



## OVN RESULTS

| SAMPLE ID | FIELD HEADSPACE (ppm) |
|-----------|-----------------------|
| CI        | 0.2                   |
|           |                       |
|           |                       |
|           |                       |
|           |                       |
|           |                       |

## LAB RESULTS

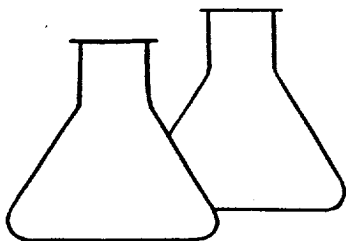
| SAMPLE ID | ANALYSIS REQUESTED | RESULTS (PPM) |
|-----------|--------------------|---------------|
| CI        | TPH                | 234           |
|           |                    |               |
|           |                    |               |
|           |                    |               |
|           |                    |               |
|           |                    |               |

4  
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: | 10-14-94 |
| Project Location:  | San Juan 32-7 # 58 | Date Reported: | 10-17-94 |
| Laboratory Number: | GAC0839            | Sample Matrix: | Soil     |

| Parameter                                   | Result, mg/kg | Detection Limit, mg/kg |
|---------------------------------------------|---------------|------------------------|
| -----                                       | -----         | -----                  |
| Total Recoverable<br>Petroleum Hydrocarbons | 234           | 10                     |

ND = Not Detectable at stated detection limits.

| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*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 PA046

C. Jack Collins  
Analyst

Morris D. Young  
Review