District I

P.O. B 1980, Hobbs, NM District And NM 88211
Dis DEPUTY OIL & GAS INSPECTOR 1000 Rio Brazos Rd, Aztec, NM 87410

JUN 2 4 1997

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

| annove/ | | | |
|---|-------------------------------------|----------------------------------|----|
| Operator: Phillips Petroleum Company | Teleph | one: (505) 599-3400 | |
| Address: 5525 Hwy. 64, NBU 3004, Farming | on <u>NM</u> 87401 | | |
| Well Name | | | |
| Location: Unit or Qtr/Qtr Sec NWSE Sec 19 | 29N R 6W Con | ınty <u>Rio Arriba</u> | |
| Pit Type: SeparatorX Dehydra | Other Cond | ensate_Tank | - |
| Land Type: BLM, Stat | , Fee X | ,Other | |
| Pit Location: Pit dimensions: Length (Attach diagram) Reference wellhead | | 0 ft, depth3 ft | |
| Footage from reference: | 55 ft | | |
| - | Degrees X | East North of West South | |
| Depth to Ground Water: 40 ft | X Less than 50 fe | et (20 points) | |
| (vertical distance from contaminants to seasonal highwater elevation of ground water) | 50 ft to 99 feet Greater than 10 | ` ' ' | 20 |
| Wellhead Protection Area: (less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources) | (D) - <u>x</u> | Yes (20 points) No (0 points) | 0 |
| Distance to Surface Water: | Less than 200 t | (I) | |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.) | Z 200 feet to 1000 X Greater than 1 | ` . , | 0 |
| P:\pits\PrrC@.WK3 | RANKING SCORE | (TOTAL POINTS): | |

| Date Remediation Started: | <u>N/A</u> | D | ated Completed: | |
|--|---|---------------------------------------|------------------------|----------------------|
| | Excavation | <u> </u> | Approx. cubic yard | s |
| | Landfarmed | | Insitu Bioremediat | ion |
| | Other | | | |
| Remediation Method: | Onsite | | | |
| Check all appropriate | | - | | |
| ections) | | - | | |
| General Description of Remedial Act nitial assessment showed so | ils to be clean at | · · · · · · · · · · · · · · · · · · · | d at 3 ft below pi | |
| Ground Water Encountered: | | | De | |
| Closure Sampling: (if multiple samples, attach sample results | oe | | in NW corner. S | |
| and diagram of sample Sample de locations and depths) | epth 3'below p | it bottom | | |
| - | ate <u>2/26/97</u> | | Samp | le time <u>14:00</u> |
| Sample R | esults | | | |
| | Benzene(ppm) | | | CEIVEN |
| | Total BTEX (PPM) | · · · · · · · · · · · · · · · · · · · | uu AP | R 2 4 1997 |
| | Field Headspace (ppm TPH <u>Non-Dete</u> | | | CON. DIV |
| bround Water Sample: Yes | No | | yes, attach sample res | |
| HEREBY CERTIFY THAT THE IN | F. | E IS TRUE AND | COMPLETED TO TH | E BEST |
| DATE 4-22-97 | F | PRINTED NAME | Bob Wirtanen | |
| DATE 4-22-97 IGNATURE Roll A. V | AL a | nd TITLE <u>S</u> | r. Safety & Envir | onmental Specialist |

Pit Closure San Juan 29-6 #65A

| Depth to Groundwater | 40' |
|---------------------------|--------|
| Distance to Water Source | >1000' |
| Distance to Surface Water | >1000' |
| TPH Limit (ppm) | 100 |

The subject pit was located on moist, brown, clayey silt. The pit is located 55 feet East of the wellhead. The initial size of the pit was 20'x20'x3' deep. The earthen pit has a double bottomed steel tank located in the pit.

On February 26, 1997, Cimarron Oilfield Services, utilizing a Geoprobe, bore a hole to approximately 6 feet in depth (3 feet below pit bottom), for purposes of determining vertical extent of stained soils. A sample at 6 feet was retrieved and tested utilizing an OVM and the field headspace method for BTEX and a TPH sample submitted to Intermountain Labs for TPH analysis utilizing EPA Method 8015. Results provided an OVM reading of 0 ppm and a TPH level of Non-Detect. No groundwater was encountered, and first water was not recorded on the nearby cathodic well until a depth of 40 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". By installing a steel pit with a leak detection system, 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.

Cimarron Oilfield Services

Page 1 of

| Client/Project Name | | | Projec | Project Location | | | | | | | |
|--|---------|---|---------------------------|---|----------------------|---|-------------------------------------|--|----------------------|-------|------|
| Phillips Petroleum | Jryin | | <i>い</i> | 3 29.6 | # 65A | | A | ANALYSES / PARAMETERS | RAMETERS | | |
| # T | D | 1 | Chain of Custody Tape No. | tody Tape N | ·o | | 1 | | Remarks | rks | |
| Sample No./ Identification | Date | Time | Lab Number | | Matrix | lo. oll | No. of Contain Bol 5 GRO/L | | | | |
| 8tm @ (0) | 2/24/97 | 1400 | | 1.08 | | | X | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | - | | | | | | | | |
| Religquished by: (Signature) | , | | | Date | Time | Received by: (Signature) | (Signature) | | | Date | Time |
| That Mal | R | | | 2/27/77 | 11:48 | Alland | | boutlet | | 42767 | _ |
| Refinquished by: (Signature) | <i></i> | | | Dafe | Time | Received by: (Signature) | (Signature) | | | Date | Time |
| Relinquished by: (Signature) | | | | Date | Time | Received by is | Received by laboratory: (Signature) | ature) | | Date | Пте |
| | | | Inter-Mo | untain L | aborat | untain Laboratories, Inc. | Ö | | | | |
| 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945 | | 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945 | | 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737 | eet 101 5-4737 | 1160 Research Dr. Bozeman, Montana 59715 Telephone (406) 586-8450 | n Dr. ntana 59715 6) 586-8450 | 11183 SH 30 College Station, TX 77845 Telephone (409) 776-8945 | TX 77845 776-8945 | 67897 | 671 |
| | | | | | | | | | | | |

DIESEL RANGE ORGANICS - DRO

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Client:

PHILLIPS PETROLEUM COMPANY

Sample ID: Btm @ 6'

Project ID: Lab ID:

Matrix:

None Given

B971016

Soil

0397G00276

Date Reported: Date Sampled:

03/10/97

Date Received:

02/26/97 02/28/97

Date Extracted:

03/03/97

Date Analyzed:

03/03/97

| Parameter | Result | PQL | Units |
|---------------------------------|--------|-----|-------|
| Diesel Range Organics | ND | 5.0 | mg/kg |
| Diesel Range Organics as Diesel | ND | 5.0 | mg/kg |
| Total Extractable Hydrocarbons | ND | 5.0 | mg/kg |

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 3, 05/08/92.

WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of

Ecology, Revision 3, October 1991.

Client:

PHILLIPS PETROLEUM COMPANY

Sample ID:

Btm @ 6'

Project ID: Lab ID:

None Given

B971016 Matrix: Soil

0397G00276

Date Reported: Date Sampled:

03/04/97 02/26/97

Date Received: Date Extracted: 02/28/97 02/28/97

Date Analyzed:

02/28/97

| Parameter | Result | PQL | Units |
|--------------------------------------|--------|---------|-------|
| Gasoline Range Organics | ND | 5.0 | mg/kg |
| Gasoline Range Organics as Gasoline | ND | 5.0 | mg/kg |
| Total Purgeable Hydrocarbons | ND | 5.0 | mg/kg |
| QUALITY CONTROL - Surrogate Recovery | % | QC Limi | ts |
| Bromofluorobenzene | 103 | 40 - | 163 |

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Rev. 5, February 1992.

WTPH-G Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of

Ecology, Revision 6, 08/18/93.

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QUALITY ASSURANCE / QUALITY CONTROL

i.e.

LAB QA/QC **GASOLINE RANGE ORGANICS - GRO METHOD BLANK**

Date Analyzed: 03/03/97

Lab ID:

MBS97059

Matrix:

Sand

Date Extracted 02/28/97

| Parameter | Result | PQL | Units |
|--------------------------------------|--------|-----------|-------|
| Gasoline Range Organics | ND | 5.0 | mg/kg |
| Gasoline Range Organics as Gasoline | ND | 5.0 | mg/kg |
| Total Purgeable Hydrocarbons | ND | 5.0 | mg/kg |
| QUALITY CONTROL - Surrogate Recovery | % | QC Limits | |
| Bromofluorobenzene | 99 | 40 - 163 | |

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ND - Not Detected at Practical Quantitation Level (PQL)

50 Analyst_

Reviewed_

1160 Research Drive Bozeman, Montana 59718

LAB QA/QC **DIESEL RANGE ORGANICS - DRO METHOD BLANK**

Date Analyzed: 03/03/97

Lab ID:

MBS970062

Matrix:

Sand

Date Extracted 03/03/97

| Parameter | Result | PQL | Units |
|-----------------------|--------|-----|-------|
| Diesel Range Organics | ND | 5.0 | mg/kg |

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ND - Not Detected at Practical Quantitation Level (PQL)

Analyst_

Reviewed

1160 Research Drive Bozeman, Montana 59718

LAB QA/QC **GASOLINE RANGE ORGANICS - GRO INSTRUMENT BLANK**

Date Analyzed: 02/28/97

IBS97059A

Lab ID:

Matrix:

Water

| Parameter | Result | PQL | Units |
|--------------------------------------|--------|-----------|-------|
| Gasoline Range Organics as Gasoline | ND | 0.01 | mg/L |
| Total Purgeable Hydrocarbons | ND | 0.01 | mg/L |
| QUALITY CONTROL - Surrogate Recovery | % | QC Limits | |
| Bromofluorobenzene | 100 | 40 - 163 | |

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ND - Not Detected at Practical Quantitation Level (PQL)

60 Analyst_

LAB QA/QC **GASOLINE RANGE ORGANICS - GRO** MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

Date Analyzed: 02/28/97

Lab ID:

0597H01016

Matrix:

Sand

Date Extracted: 02/28/97

Original Sample Parameters

| Parameter | Spike Added (mg/kg) | Sample Result (mg/kg) | Spike Result (mg/kg) | MS Recovery % | QC Limits Rec. |
|-------------------------------------|---------------------------|-----------------------------|----------------------------|---------------------|-------------------|
| Gasoline Range Organics as Gasoline | 25 | 0 | 14 | 56 | 52 -117 |

Duplicate Sample Parameters

| | Spike Added | MSD Result | MSD Recovery | RPD | QC Limits | |
|-------------------------------------|----------------|---------------|-----------------|-----|-----------|----------|
| Parameter | (mg/kg) | | % | % | RPD | Rec. |
| Gasoline Range Organics as Gasoline | 25 | 16 | 64 | 13 | 25 | 52 - 117 |

Note:

Spike Recoveries are calculated using zero for Sample result

if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 2 outside QC limits.

RPD:

0 out of 1 outside QC limits.

50 Analyst_

Reviewed____

LAB QA/QC **GASOLINE RANGE ORGANICS - GRO** LAB CONTROL SAMPLE

Date Analyzed: 02/28/97

Lab ID:

LCS97059

Matrix:

Sand

Date Extracted 02/28/97

| Parameter | Spike Added (mg/kg) | Sample Result (mg/kg) | LCS Result (mg/kg) | LCS Recovery % | QC Limits Rec. |
|--------------------------------------|---------------------------|-----------------------------|--------------------------|----------------------|-------------------|
| Gasoline Range Organics as Gasoline | 25 | 0 | 20 | 80 | 52 -117 |
| QUALITY CONTROL - Surrogate Recovery | | | % | · | QC Limits |
| Bromofluorobenzene | | | 109 | | 40 -163 |

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Spike Recovery:

0 out of 1 outside QC limits.

Surrogates:

Surrogate Recoveries within QC Limits.

SD Analyst_

DIESEL RANGE ORGANICS - DRO BLANK SPIKE / BLANK SPIKE DUPLICATE SUMMARY

Date Analyzed: 03/03/97

Lab ID:

BSS970062

Matrix:

Sand

Date Extracted: 03/03/97

Original Sample Parameters

| Parameter | Spike Added (mg/kg) | Sample Result (mg/kg) | Spike Result (mg/kg) | BS Recovery % | QC Limits Rec. |
|-----------------------|---------------------------|-----------------------------|----------------------------|---------------------|-------------------|
| Diesel Range Organics | 25.5 | 0 | 15.5 | 61 | 50 -150 |

Duplicate Sample Parameters

| Parameter | Spike Added (mg/kg) | BSD Result (mg/kg) | BSD Recovery % | RPD % | QC Limits | |
|-----------------------|---------------------------|--------------------------|----------------------|----------|-----------|----------|
| | | | | | RPD | Rec. |
| Diesel Range Organics | 25.5 | 15.7 | 62 | 1 | 25 | 50 - 150 |

Note:

Spike Recoveries are calculated using zero for Sample result

if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery:

0 out of 2 outside QC limits.

RPD:

O out of 1 outside QC limits.

Analyst_

Reviewed____