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

NATURAL RESOURCE DEPT

DECENTED JUL 3 0 1893

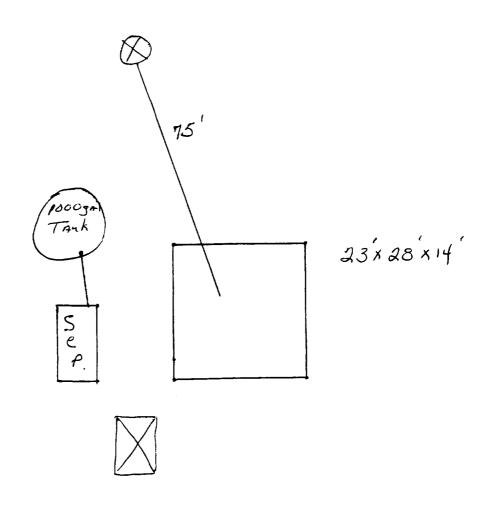
PIT REMEDIATION AND CLOSURE REPORT

OIL COM. DIV

| Ulbilli 3 |
|---|
| Operator: PNM GAS Services Telephone: 324-3763 |
| Address: 603 W Elm Farmington, N. Mex. 87401 |
| Facility or Well Name: Jicarilla C-2 (Conoco) |
| Location: Unit or Qtr/Qtr Sec M Sec // T260 R4W County Rio Arriba |
| Pit Type: Separator X Dehydrator Other |
| Land Type: Jicarilly Apriche |
| Pit Location: Pit dimensions: length 28', width 23', depth 14 |
| (Attach diagram) Reference: wellhead X, other |
| Footage from reference: 75' |
| Direction from reference: 85° Degrees East North West South of East |
| N |
| Dest To Croundwater Less than 50 feet (20 points) |
| (Vertical distance from Contaminants to seasonal) Contaminants to seasonal) Contaminants to seasonal) Contaminants to seasonal) |
| 1 |
| Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width) Less than 100 feet (10 points) (O points) |
| Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet (10 points) (Downgradical lakes, playas and livestock or wildlife watering ponds) |
| Wellhead Protection Area: (Less than 200 feet from a private Yes (20 points) No (0 points) |
| domestic water source, or: less than 1000 feet from all other water sources) |
| Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 100 feet (20 points) 100 feet to 1000 feet (0 points) Greater than 1000 feet (0 points) |
| RANKING SCORE (TOTAL POINTS): |

| Date Remediation Started: 6/3/96 | Date Completed: 4/24/94 |
|---|--|
| Remediation Method: Excavation X | Approx. cubic yards 334 |
| (Check all appropriate sections) Landfarmed X | Amt. landfarmed (yd3) 334 |
| Other | |
| Remediation Location: Onsite X Offsite | |
| General Description of Remedial Action: Removi | |
| to a field head space readings | of less than 100 ppm on 4 walls + botton |
| Groundwater Encountered: No X Yes | Depth |
| Closure Sampling: (if multiple samples. walls 4-1 botton | |
| Sample Results | |
| Soil: Benzene (ppm) | Water: Benzene (ppb) |
| Total BTEX (ppm) | Toluene (ppb) |
| Field Headspace (ppm) 4/. | Ethylbenzene (ppb) |
| TPH 8015 (ppm) 67.7 | Total Xylenes (ppb) |
| Groundwater Sample: Yes No X (If | yes, attach sample results) |
| I HEREBY CERTIFY THAT THE INFORMATION A KNOWLEGE AND BELIEF | BOVE IS TRUE AND COMPLETE TO THE BEST OF MY |
| DATE 6/9/96 PRINTED NAME | |
| SIGNATURE KANDAL COMOS AND TITLE | <u>E.T.</u> |
| AFTER REVIEW OF THE PIT CLOSURE INFORMA THE JICARILLA APACHE TRIBE PIT CLOSURE OF | TION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO RDINANCE. |
| APPROVED: YES Y NO (REASON) SIGNED: DATE: 6 | -10 9/ |
| SIGNED: Want DATE: 6 | <u> </u> |

Jicarilla C-2 Conoce Sec. 11 T26N R4W Unit M





LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

8-Jun-96

Company: PNM Gas Services

COC No.:

4675

Address:

Sample No.

603 W. Elm

11115

Job No.

2-1000

City, State: Farmington, NM 87401

Project Name:

PNM Gas Services - Jicarilla C #2 LD

Project Location:

RR

9606041040; 5pt. Composite Date: Date:

4-Jun-96 Time:

10:40

Sampled by: Analyzed by:

HR

7-Jun-96

Sample Matrix:

Soil

Laboratory Analysis

| Parameter | Result | Unit of Measure | Detection Limit | Unit of Measure |
|-----------------------------------|--------|--------------------|--------------------|--------------------|
| Diesel Range Organics (C10 - C28) | 74.9 | mg/kg | 5.0 | mg/kg |

Quality Assurance Report

DRO QC No.:

0475-QC

Calibration Check

| Calibration C | T | 44-14-4 | True | Analyzed | | |
|--------------------------|--------|---------|--|----------|--------|-------|
| | Method | Unit of | | i ' i | 0/ D#f | Limit |
| Parameter | Blank | Measure | Value | Value | % Diff | Limit |
| | | | Į. | | | |
| Diesel Range (C10 - C28) | <5.0 | mag | 1,765 | 1,897 | 7.5 | 15% |
| Diesei Kunge (C10 - C20) | 1 3.0 | | <u>. </u> | | | |

Matrix Spike

| | | | | |
|-------------|-------------------------|---------------------|--|---|
| 1- Percent | 2 - Percent | | | |
| Recovered | Recovered | Limit | %RSD | Limit |
| | | 1 | | |
| 106 | 105 | (70-130) | 1 | 20% |
| | 1- Percent Recovered | Recovered Recovered | 1- Percent 2 - Percent Recovered Recovered Limit | 1- Percent 2 - Percent Recovered Recovered Limit %RSD |

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 6/8/56

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

8-Jun-96

Company: PNM Gas Services

COC No.:

4675

Address:

603 W. Elm

Sample No.

11114

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jicarilla C #2

Project Location:

9606031140; 5pt. Composite

Date: Date:

3-Jun-96 Time:

11:40

Sampled by: Analyzed by: Sample Matrix:

HR Soil

RR

7-Jun-96

Laboratory Analysis

| Parameter | Result | Unit of Measure | Detection Limit | Unit of Measure |
|-----------------------------------|--------|--------------------|--------------------|--------------------|
| Diesel Range Organics (C10 - C28) | 67.7 | mg/kg | 5.0 | mg/kg |

Quality Assurance Report

DRO QC No.:

0475-QC

Calibration Check

| Parameter | Method Blank | Unit of Measure | True Value | Analyzed Value | % Diff | Limit |
|--------------------------|-----------------|--------------------|---------------|-------------------|--------|-------|
| Diesel Range (C10 - C28) | <5.0 | ppm | 1,765 | 1,897 | 7.5 | 15% |

Matrix Spike

| Parameter | 1- Percent Recovered | | | %RSD | Limit |
|------------------------|-------------------------|-----|----------|------|-------|
| Diesel Range (C10-C28) | 106 | 105 | (70-130) | 1 | 20% |

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

8-Jun-96

Company: PNM Gas Services

COC No.:

4675

Sample No.:

11115

Address:

603 W. Elm

Job No.:

2-1000

City, State: Farmington, NM 87401

PNM Gas Services - Jicarilla C #2 LD

Project Name: Project Location:

9606041040; 5pt. Composite

Sampled by:

RR

Date: Date: 4-Jun-96 Time: 7-Jun-96

10:40

Analyzed by: Sample Matrix: DC

Soil

Laboratory Analysis

| Component | | Result | Unit of Measure | Detection Limit | Unit of Measure |
|--------------|-------|--------|--------------------|--------------------|--------------------|
| Benzene | | 1.3 | ug/kg | 0.2 | ug/kg |
| Toluene | | 4.8 | ug/kg | 0.2 | ug/kg |
| Ethylbenzene | | 1.2 | ug/kg | 0.2 | ug/kg |
| m,p-Xylene | | 5.7 | ug/kg | 0.2 | ug/kg |
| o-Xylene | | 3.4 | ug/kg | 0.2 | ug/kg |
| | TOTAL | 16.3 | ug/kg | | |

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

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: PNN GAS Sev | -vices | <u> </u> | Telephone: 324-3763 | | | | |
| Address: 603 60 E/~ | Farming- | to Ne | ~ Maico 87400 | | | | |
| Facility or Well Name: Jichnilla C-2 (Conoco) | | | | | | | |
| Location: Unit or Qtr/Qtr Sec^1 | Sec//_ T= | RYW C | Sounty Kio Himba | | | | |
| Land Type: JICHTILA 17p. | Actic | £ | | | | | |
| Date Remediation Started: | 3/96 | Date C | Completed: <u>4/26/</u> 96 | | | | |
| Remediation Method: Landfarmed | | Approx. | cubic yards <u>333.33</u> | | | | |
| Composted | | | | | | | |
| Other | | | | | | | |
| Depth To Groundwater: | (pts.) | | Final Closure Sampling: | | | | |
| | • | Sampling Date | $\frac{4/19/96}{1000}$ Time: $\frac{1038}{1000}$ | | | | |
| Distance to an Ephemeral Stream | (pts.) / O | | , , | | | | |
| Distance to Nearest Lake, Playa, or Watering Pond | (pts.) | Sample Results | | | | | |
| Wellhead Protection Area: | (pts.) | 1 | pace (ppm) 2.5 | | | | |
| Distance To SurfaceWater: | (pts.) | | (ppm) $\angle S.C.$ Method $\angle S.C.S.$ | | | | |
| RANKING SCORE (TOTAL POIN | (TS): <u>/</u> | | | | | | |
| I HEREBY CERTIFY THAT THE INFO | RMATION ABOVE | E IS TRUE AND | COMPLETE TO THE BEST OF MY | | | | |
| SIGNATURE Racifor Did AND TITLE ET | | | | | | | |
| AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. | | | | | | | |
| APPROVED: YES X NO | (REASON) | | · | | | | |
| SIGNED: (C) Com | DATE | : <u>6-2</u> | 4-96 | | | | |



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

21-Jun-96

Company: PNM Gas Services

COC No.:

4563

Address:

603 W. Elm

Sample No.

11237

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jicarilla C-2 Soil Farm Run 12-51

Project Location:

9606191038; 5pt. Composite RD

Date:

19-Jun-96 Time:

10:38

Sampled by: Analyzed by:

DC

Date:

20-Jun-96

Sample Matrix:

Soil

Laboratory Analysis

| Parameter | Result | Unit of Measure | Detection Limit | Unit of Measure |
|-----------------------------------|--------|--------------------|--------------------|--------------------|
| Diesel Range Organics (C10 - C28) | <5.0 | mg/kg | 5.0 | mg/kg |

Quality Assurance Report

DRO QC No.:

0475-QC

Calibration Check

| Parameter | Method Blank | Unit of Measure | True Value | Analyzed Value | % Diff | Limit |
|--------------------------|-----------------|--------------------|---------------|-------------------|--------|-------|
| Diesel Range (C10 - C28) | <5.0 | ppm | 2,000 | 1,746 | 12.7 | 15% |

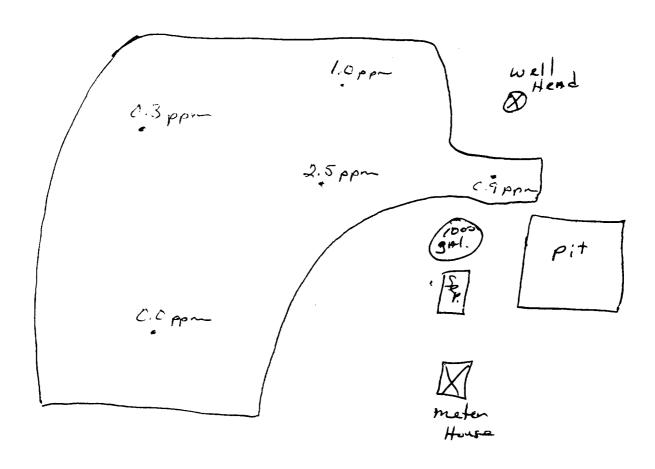
Matrix Spike

| mouth opino | | | | | |
|------------------------|-------------------------|--------------------------|----------|------|-------|
| | 1- Percent Recovered | 2 - Percent Recovered | Limit | %RSD | Limit |
| Parameter | | | | | |
| | | | | | |
| Diesel Range (C10-C28) | 103 | 94 | (70-130) | 6 | 20% |

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

P. O. BOX 2606 • FARMINGTON, NM 87499

100'x 90'x1'
333.33 chyds.



Turned 24 Times