PDistrict I P O Box 1980, Hobbs, NM

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

District II PO Drawn De Agesia NM 882213, Found DISTRICT DEBLIFY AND MARGAS INSPECTOR

OIL CONSERVATION DIVISION

JUL 1 8 1997

2040 South Pacheco Street Santa Fe, New Mexico 87505

PET REMEDIATION AND CLOSURE REPORT

| // 0   |  |
|--|--|
| Operator: PNM Gas Services Questar Energy )  | Telephone: 324-3764                            |
| Address: 603 W. Elm Street Farmington, NM 87401  |  |
| Facility or Well Name: Federal A #1  |  |
| Location: Unit: M Sec. 25 T.   | 30 N R. 13 W County San Juan                   |
| Pit Type: Separator Dehydrator   | Other  |
| Land Type: BLM 🗸 State Fee   | Other Loc for new High School                  |
| Pit Location: Pit dimensions: length 20  | width 12 depth 20                              |
| (Attach diagram) Reference: wellhead 💉   | other  |
| Footage from reference: 186'   |  |
| Direction from reference: 5 Degrees  | ✓ East North ✓                                 |
|  | of West South                                  |
|  | n 50 feet (20 points)<br>o 99 feet (10 points) |
| (Vertical distance from contaminants to Greater than seasonal high water elevation of ground water   |  |
| Wollenson Designation of the second of the s |  |
| Wellhead Protection Area:  | Yes (20 points)                                |
| (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)   | No OIL CON, DIV (1 points)0 DIST. 3            |
| 200 feet to  | (10 points)                                    |
| (Horizontal distance to perennial lakes.  ponds, rivers, streams, creeks, irrigation  canals and ditches   | ( o points)                                    |
| RANKIN   | G SCORE (TOTAL POINTS):                        |

| Date Remediation Started:  | 11/19/96             |                               | Date Comp                               | leted: 11/20/96  |
|--|----------------------|-------------------------------|---|--|
| Remediation Method:  | Excavation           | Х                             | Approx. Cu                              | bic Yard 713   |
| (Check all appropriate   | Landfarmed           | X                             | Amount La                               | ndfarmed (cubic yds)                                   |
| sections)  | Other                |                               |   |  |
| Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)   | Onsite               | 293 cu yds onsite             | Offsite                                 | 300 cu yds offsite Federal A #1E 25-30N-<br>13W.       |
| Backfill Material Location:  |                      |                               |   |  |
| General Description of Ren   | nedial Action:       |                               | -                                       |  |
| Excavated contaminated soil to Soil was aerated by plowing unt   | pit size of 31'X27xX | (23' and landfarmed 293 cu yo | ls soil onsite wit                      | thin a bermed area at a depth of 6" to 12".            |
| The state of proving difference of the state |                      | rievers. 300 cu yus ianufanne | d Offsite.                              |  |
|  |                      |                               |   |  |
| Ground Water Encountere  | d: No                | ✓ Yes                         |   | Donth  |
| S. June Water Encountere   | u. 190               | Yes                           | *************************************** | Depth  |
| Final Pit Closure<br>Sampling:   | Sample Locatio       | n 5 pt composite-4 side       | walls and cent                          | er of pit bottom                                       |
| (if multiple samples, attach sample result and diagram of  | Sample depth         | 23'                           |   |  |
| sample locations and depths.)  | Sample date          | 11/20/96                      | Sample                                  | time 10:20:00 AM                                       |
|  | Sample Results       |                               |   |  |
|  | Benzen               | e (ppm)0                      | .0028                                   |  |
|  | Total B              | TEX (ppm)                     | 0.1207                                  |  |
|  | Field he             | adspace (ppm)                 |   |  |
|  | ТРН                  | < 5.00                        | Method                                  | 8015A  |
| Vertical Extent (ft)   |                      | Risk Assessm                  | ent form attac                          | hed Yes No   |
| Ground Water Sample:   | Yes                  | No                            |   | (If yes, see attached Groundwater Site Summary Report) |
| I HEREBY CERTIFY THA<br>KNOWLEDGE AND MY I   |                      | ATION ABOVE IS TRUE           | E AND COMI                              | PLETE TO THE BEST OF MY                                |
| DATE April 28. 199<br>SIGNATURE  | 97<br>vulkli         | PRINTE<br>AND TI              |   | Denver Bearden<br>Administrator III                    |

Federal # A-1 Questar Energy Co. Scc. 25, 30N, 13W 990'FSL + 1190 FUL 11/18/96 S° E OF N 101



LAB: (505) 325-1556

# Diesel Range Organics

Denver Bearden Attn:

Date:

22-Nov-96

Company: PNM Gas Services

COC No.:

5136

Address: 603 W. Elm Sample No.

12949

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Federal #A1

**Project Location:** 

9611201020: Pit Excavation Composite Sample Date:

20-Nov-96 Time:

10:20

Sampled by: Analyzed by: RH DC/HR

Date:

21-Nov-96

Sample Matrix:

Soil

### Laboratory Analysis

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

## Quality Assurance Report

DRO QC No.:

0512-QC

#### Calibration Check

| Parameter                | Method<br>Blank | Unit of<br>Measure | True<br>Value | Analyzed<br>Value | % Diff | Limit |
|--------------------------|-----------------|--------------------|---------------|-------------------|--------|-------|
| Diesel Range (C10 - C28) | <5.0            | ppm                | 100           | 105               | 4.8    | 15%   |

Matrix Snika

| watrix Spiki           | <del> </del> |             |          |      |       |
|------------------------|--------------|-------------|----------|------|-------|
|                        | 1- Percent   | 2 - Percent |          |      |       |
| Parameter              | Recovered    | Recovered   | Limit    | %RSD | Limit |
|                        |              |             |          |      |       |
| Diesel Range (C10-C28) | 109          | 107         | (70-130) | 1    | 20%   |

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

Approved by: Date: 11/22/96



LAB: (505) 325-1556

## AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date: 22-Nov-96

Company: PNM Gas Services

COC No.:

5136

Address:

Sample No.:

12949

City, State: Farmington, NM 87401

603 W. Elm

Job No.:

2-1000

Project Name:

PNM Gas Services - Federal #A1

**Project Location:** Sampled by:

9611201020; Pit Excavation Composite Sample RH

Date:

20-Nov-96 Time:

10:20

Analyzed by:

DC

Date:

21-Nov-96

Sample Matrix:

Soil

### Laboratory Analysis

|              |       |        | Unit of        | Detection | Unit of       |
|--------------|-------|--------|----------------|-----------|---------------|
| Parameter    |       | Result | Measure        | Limit     | Measure       |
| Benzene      |       | 2.8    | ug/kg          | 0.2       | ug/kg         |
| Toluene      |       | 25.0   | ug/kg          | 0.2       | ug/kg         |
| Ethylbenzene |       | 4.4    | ug/kg          | 0.2       | ug/kg         |
| m,p-Xylene   |       | 68.8   | ug/kg          | 0.2       | ug/kg         |
| o-Xylene     | T     | 19.7   | ug/kg          | 0.2       | ug/ <b>kg</b> |
|              | TOTAL | 120.7  | ug/ <b>k</b> g |           |               |

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

Approved by:

Date:

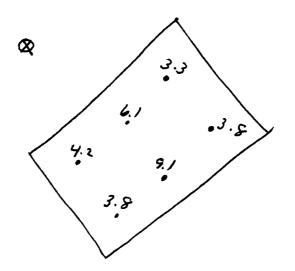
P.O. BOX 2606 • FARMINGTON, NM 87499

Federal # A-1 Questar Sec. 25, 30N, 13W

Landfarm: On location

Composite sample # 9701061115

Soil vapor head space PID reading = 33.6ppm



2"-12" depth



LAB: (505) 325-1556

# Diesel Range Organics

Attn: Denver Bearden Date:

8-Jan-97

Company: PNM Gas Services

COC No.:

5851

Address: 603 W. Elm Sample No.

13321

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Federal #A-1 Landfarm

**Project Location:** 

9701061115; 6pt. Composite, 2"-12" depth

Date: Date:

6-Jan-97 Time:

11:15

Sampled by: Analyzed by:

HR Soil 6-Jan-97

Sample Matrix:

# Laboratory Analysis

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

# Quality Assurance Report

DRO QC No.:

0512-QC

### Calibration Check

| Parameter                | Method<br>Blank | Unit of<br>Measure | True<br>Value | Analyzed<br>Value | % Diff | Limit |
|--------------------------|-----------------|--------------------|---------------|-------------------|--------|-------|
| Diesel Range (C10 - C28) | <5.0            | ppm                | 100           | 101               | 1.4    | 15%   |

Matrix Spike

|                        | 1- Percent | 2 - Percent |          |      |       |
|------------------------|------------|-------------|----------|------|-------|
| Parameter              | Recovered  | Recovered   | Limit    | %RSD | Limit |
|                        |            |             |          |      |       |
| Diesel Range (C10-C28) | 98         | 100         | (70-130) | 1    | 20%   |

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

Approved by: Date:

P.O. BOX 2606 • FARMINGTON, NM 87499

federal A#1 Questar Sec. 25, 30N, 13W

1-6-98

Landfarmed: Federal A#1E

Questar

Sec. 25, 30N, 13W

Composite sample # 970106 1145

Suil vapor headspace PID reading = 12.1 ppm

1.1 1.6

2"-12" depts



LAB: (505) 325-1556

# Diesel Range Organics

Attn:

Denver Bearden

Company: PNM Gas Services

603 W. Elm

Address:

City, State: Farmington, NM 87401

Date:

8-Jan-97

COC No.:

5863

Sample No.

13326

Job No.

2-1000

Project Name:

PNM Gas Services - Federal A #1 Landfarmed @ Federal A #1E

Project Location: Sampled by:

9701061145; 6pt. Composite, 2"-12" depth GC

Date:

6-Jan-97 Time:

11:45

Analyzed by: Sample Matrix: HR Soil Date:

6-Jan-97

# Laboratory Analysis

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

## Quality Assurance Report

DRO QC No.:

0512-QC

### Calibration Check

| Parameter                | Method<br>Blank | Unit of<br>Measure | True<br>Value | Analyzed<br>Value | % Diff | Limit |
|--------------------------|-----------------|--------------------|---------------|-------------------|--------|-------|
| Diesel Range (C10 - C28) | < 5.0           | ppm                | 100           | 101               | 1.4    | 15%   |

Matrix Spike

|                        | 1- Percent | 2 - Percent |          |      |       |
|------------------------|------------|-------------|----------|------|-------|
| Parameter              | Recovered  | Recovered   | Limit    | %RSD | Limit |
|                        |            |             |          |      |       |
| Diesel Range (C10-C28) | 98         | 100         | (70-130) | 1    | 20%   |

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

Approved by: Oate: 1/8/17

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -