

**DEPUTY OIL & GAS INSPECTOR**

## JICARILLA APACHE TRIBE

FEB 28 1997

**ENVIRONMENTAL PROTECTION OFFICE**

P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

RECEIVED  
OCT 3 1996

## PIT REMEDIATION AND CLOSURE REPORT

67-10000-10000  
10000-10000

Operator: PNM Gas Services (Meridian) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla J-10E

Location: Unit: N Sec. 26 T. 26 N R. 5 W County Rio Arriba

Pit Type: Separator      Dehydrator X Other     


Land Type: Jicarilla Apache


**Pit Location:** Pit dimensions: length 32' width 29' depth 13'  
(Attach diagram) Reference: wellhead X other \_\_\_\_\_  
Footage from reference: 165'  
Direction from reference: Straight Degrees X East North \_\_\_\_\_  
West of South \_\_\_\_\_

|  |                       |             |   |
|--|-----------------------|-------------|---|
| <b>Depth to Ground Water:</b>  | Less than 50 feet     | (20 points) |  |
| (Vertical distance from contaminants to seasonal high water elevation of ground water) | 50 feet to 99 feet    | (10 points) |   |
|  | Greater than 100 feet | ( 0 points) |   |

|  |     |             |   |
|--|-----|-------------|---|
| <b>Wellhead Protection Area:</b>   | 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  | ( 0 points) |   |

|   |                         |             |   |
|---|-------------------------|-------------|---|
| <b>Distance to Surface Water:</b>   | Less than 200 feet      | (20 points) |  |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | 200 feet to 1,000 feet  | (10 points) |   |
|   | Greater than 1,000 feet | ( 0 points) |   |
|   |                         |             |   |

|   |                                |             |   |
|---|--------------------------------|-------------|---|
| <b>Distance to Ephemeral Stream (dry wash):</b><br>(Horizontal distance to all downgradient streams having a width of at least 10 feet) | Less than or equal to 100 feet | (10 points) |  |
|   | Greater than 100 feet          | (0 points)  |   |

| Distance to Nearest Lake, Playa, or Watering Pond:   | Less than or equal to 100 feet | (10 points) |   |
|--|--------------------------------|-------------|---|
| (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds) | Greater than 100 feet          | (0 points)  |   |
|  |                                |             |  |

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: 7/31/96 Date Completed: 9/5/96

Remediation Method: Excavation X Approx. Cubic Yards 447

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 447

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four walls to get a below 100 ppm head space reading. The bottom is rock.

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

Final Pit Closure Sampling:

Sample Location North, East, South, and West side walls

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 13'

Sample date 7/31/96 Sample time 1150

Sample Results

Soil: Benzene (ppm) 0.0005 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.0166 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 32.4 Ethylbenzene (ppb) \_\_\_\_\_

TPH <5.0 ppm Method 8015 Total Xylenes (ppb) \_\_\_\_\_

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

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

DATE 8/3/96 PRINTED NAME Ronald A. Dedrick

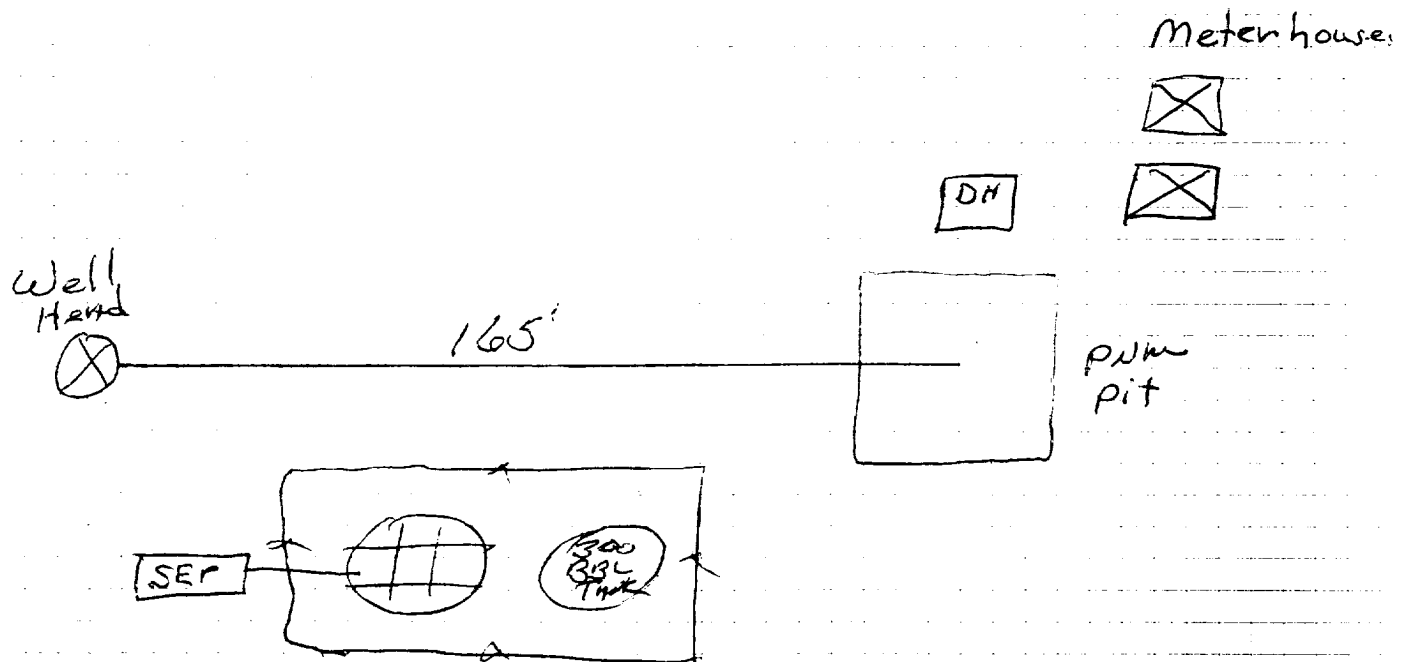
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: Kenn C. Merrill DATE: 8-5-96

Jicarilla J-10E  
Sec. 26 T26N R5W Unit N  
Meridian



OFF: (505) 325-5667



LAB: (505) 325-1556

### *Diesel Range Organics*

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *603 W. Elm*  
City, State: *Farmington, NM 87401*

Date: *2-Aug-96*  
COC No.: *4815*  
Sample No. *11666*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla J-10E Run 12-62*  
Project Location: *9607311150; 4pt. Composite*  
Sampled by: *EP* Date: *31-Jul-96* Time: *11:50*  
Analyzed by: *DC/HR* Date: *1-Aug-96*  
Sample Matrix: *Soil*

### *Laboratory Analysis*

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

### *Quality Assurance Report*

DRO QC No.: *0479-QC*

#### *Calibration Check*

| <i>Parameter</i>                | <i>Method Blank</i> | <i>Unit of Measure</i> | <i>True Value</i> | <i>Analyzed Value</i> | <i>% Diff</i> | <i>Limit</i> |
|---------------------------------|---------------------|------------------------|-------------------|-----------------------|---------------|--------------|
| <i>Diesel Range (C10 - C28)</i> | <i>&lt; 5.0</i>     | <i>ppm</i>             | <i>2,000</i>      | <i>1,994</i>          | <i>0.3</i>    | <i>15%</i>   |

#### *Matrix Spike*

| <i>Parameter</i>              | <i>1 - Percent Recovered</i> | <i>2 - Percent Recovered</i> | <i>Limit</i>    | <i>%RSD</i> | <i>Limit</i> |
|-------------------------------|------------------------------|------------------------------|-----------------|-------------|--------------|
| <i>Diesel Range (C10-C28)</i> | <i>93</i>                    | <i>99</i>                    | <i>(70-130)</i> | <i>5</i>    | <i>20%</i>   |

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

Approved by: *[Signature]*  
Date: *8/2/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

### AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *603 W. Elm*  
City, State: *Farmington, NM 87401*

Date: *2-Aug-96*  
COC No.: *4815*  
Sample No.: *11666*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla J-10E Run 12-62*  
Project Location: *9607311150; 4pt. Composite*  
Sampled by: *EP* Date: *31-Jul-96* Time: *11:50*  
Analyzed by: *DC* Date: *1-Aug-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

| Component           | Result     | Unit of Measure | Detection Limit | Unit of Measure |
|---------------------|------------|-----------------|-----------------|-----------------|
| <i>Benzene</i>      | <i>0.5</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>Toluene</i>      | <i>5.6</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>Ethylbenzene</i> | <i>0.8</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>m,p-Xylene</i>   | <i>7.6</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>o-Xylene</i>     | <i>2.2</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>TOTAL</i>        |            | <i>16.6</i>     |                 | <i>ug/kg</i>    |

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

Approved by: *[Signature]*  
Date: *8/2/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
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DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

|  |   |
|--|---|
| <b>Operator:</b> PNM Gas Services (Mendon) <b>Telephone:</b> 324-3764  |   |
| <b>Address:</b> 603 W. Elm Street Farmington, NM 87401   |   |
| <b>Facility or Well Name:</b> Jicarilla J-10E  |   |
| <b>Location:</b> Unit: <u>N</u> Sec. <u>24</u> T. <u>24</u> N R. <u>5</u> W County <u>Rio Arriba</u>   |   |
| <b>Land Type:</b> Jicarilla Apache   |   |
| <b>Date Remediation Started:</b> <u>7/31/96</u> <b>Date Completed:</b> <u>8/20/96</u>  |   |
| <b>Remediation Method:</b> Landfarmed <u>X</u> <b>Approx. cubic yards:</b> <u>447</u>  |   |
| Composted <u>    </u>  |   |
| Other <u>    </u>  |   |
| <b>Depth to Ground Water:</b> (pts.) <u>0</u>  | <b>Final Closure Sampling:</b><br><b>Sampling Date:</b> <u>8/20/96</u> <b>Time</b> <u>1842</u><br><b>Sampling Results:</b><br><b>Field Headspace (ppm)</b> <u>86.7</u><br><b>TPH (ppm)</b> <u>654</u> <b>Method</b> <u>8015</u><br><b>Other</b> <u>    </u> |
| <b>Distance to an Ephemeral Stream:</b> (pts.) <u>0</u>  |   |
| <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>0</u>  |   |
| <b>Wellhead Protection Area:</b> (pts.) <u>0</u>   |   |
| <b>Distance to Surface Water:</b> (pts.) <u>0</u>  |   |
| <b>Ranking Score (Total Points):</b> <u>0</u>  |   |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF  |   |
| <b>DATE</b> <u>8/25/96</u> <b>PRINTED NAME</b> <u>Ronald A. Dedrick</u>  |   |
| <b>SIGNATURE</b> <u>Ronald A. Dedrick</u> <b>AND TITLE</b> <u>Environmental Technician II</u>  |   |
| AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE |   |
| <b>APPROVED:</b> YES <u>X</u> NO <u>    </u> (REASON) <u>    </u>  |   |
| <b>SIGNED:</b> <u>Kenneth C. Marshall</u> <b>DATE:</b> <u>8-26-96</u>  |   |

Jicarilla J-10E

Sec. 26 T26N R5W Unit N

Meridian

Land Farm

193

8.8 ppm

15.5 ppm

43.7 ppm

6.5 ppm

86.7 ppm

65'

OFF: (505) 325-5667



LAB: (505) 325-1556

### *Diesel Range Organics*

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *603 W. Elm*  
City, State: *Farmington, NM 87401*

Date: *23-Aug-96*  
COC No.: *4852*  
Sample No. *11862*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla J-10E Landfarm Run 12-62*  
Project Location: *9608201842; 5pt. Composite*  
Sampled by: *RD* Date: *20-Aug-96* Time: *18:42*  
Analyzed by: *DC/HR* Date: *22-Aug-96*  
Sample Matrix: *Soil*

### *Laboratory Analysis*

| <i>Parameter</i>                         | <i>Result</i> | <i>Unit of Measure</i> | <i>Detection Limit</i> | <i>Unit of Measure</i> |
|--|---------------|------------------------|------------------------|------------------------|
| <i>Diesel Range Organics (C10 - C28)</i> | <i>653.6</i>  | <i>mg/kg</i>           | <i>5.0</i>             | <i>mg/kg</i>           |

### *Quality Assurance Report*

DRO QC No.: *0489-QC*

#### *Calibration Check*

| <i>Parameter</i>                | <i>Method Blank</i> | <i>Unit of Measure</i> | <i>True Value</i> | <i>Analyzed Value</i> | <i>% Diff</i> | <i>Limit</i> |
|---------------------------------|---------------------|------------------------|-------------------|-----------------------|---------------|--------------|
| <i>Diesel Range (C10 - C28)</i> | <i>&lt; 5.0</i>     | <i>ppm</i>             | <i>100</i>        | <i>104</i>            | <i>3.9</i>    | <i>15%</i>   |

#### *Matrix Spike*

| <i>Parameter</i>              | <i>1 - Percent Recovered</i> | <i>2 - Percent Recovered</i> | <i>Limit</i>    | <i>%RSD</i> | <i>Limit</i> |
|-------------------------------|------------------------------|------------------------------|-----------------|-------------|--------------|
| <i>Diesel Range (C10-C28)</i> | <i>88</i>                    | <i>101</i>                   | <i>(70-130)</i> | <i>10</i>   | <i>20%</i>   |

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

Approved by: *[Signature]*  
Date: *8/23/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -





**PLEASE PAY FROM  
THIS INVOICE**

P.O. Box 2606 Farmington, NM 87499 (505) 325-5667

**LABORATORY INVOICE**

**Attention:** Denver Bearden  
PNM Gas Services  
603 W. Elm  
Farmington, NM 87401

**Invoice No.:** 4852  
**COC No.:** 4852  
**Job No.:** 2-1000  
**Customer No.:** PNM1002

**Subject:** Soil Analysis

**Invoice Date:** 23-Aug-96  
**Location:** NM  
**Analysis Completion:** 22-Aug-96

| Laboratory Analysis            | Sample Identification          | Quantity | Unit Price | Total   |
|--------------------------------|--------------------------------|----------|------------|---------|
| TPH EPA Method 8015 Mod. (DRO) | Jicarilla J-10E LF; 9608201842 | 1        | \$55.00    | \$55.00 |
| Sub-Total                      |                                |          |            | \$55.00 |
| NM Sales Tax                   |                                |          |            | 0.05938 |
|                                |                                |          |            | \$3.27  |
| TOTAL                          |                                |          |            | \$58.27 |

**Terms:** Net 15 days