

Denny E. Foust  
DEPUTY OIL & GAS INSPECTOR

FEB 26 1998

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (WFS) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla G-12 Drip  
Location: Unit: N Sec. 1 T. 26 N R. 5 W County Rio Arriba  
Pit Type: Separator      Dehydrator      Other Line Drip  
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 16' width 16' depth 4'  
(Attach diagram) Reference: wellhead      other Drip riser  
Footage from reference: 24'  
Direction from reference: 30 Degrees      East      North       
     West      South     

Depth to Ground Water:

(Vertical distance from contaminants  
to seasonal high water elevation or  
ground water)

Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 points) e

Wellhead Protection Area:

(Less than 200 feet from a private domestic  
water source, or, less than 1,000 feet from all  
other water sources)

Yes (20 points)  
No (0 points) e

Distance to Surface Water:

(Horizontal distance to perennial  
lakes, ponds, rivers, streams,  
creeks, irrigation canals and ditches)

Less than 200 feet (20 points)  
200 feet to 1,000 feet (10 points)  
Greater than 1,000 feet (0 points) e

Distance to Ephemeral Stream (dry wash):

(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) e

Distance to Nearest Lake, Playa, or Watering  
Pond:

(Horizontal distance to all downgradient  
lakes, playas, and livestock or wildlife  
water ponds)

Less than or equal to 100 feet (10 points)  
Greater than 100 feet (0 points) e

RANKING SCORE (TOTAL POINTS): e

Date Remediation Started: 6/24/97 Date Completed: 7/28/97

Remediation Method: Excavation X Approx. Cubic Yards 37

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 37

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Jicarilla G-12 Location  
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contamination from all four side walls  
175 to get it below 100 ppm head space readings  
Bottom is solid rock

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

Final Pit Closure Sampling:

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

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

Sample depth 4'

Sample date 6/24/97 Sample time 0800

Sample Results

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

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

Field headspace (ppm) 82.1 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND 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 7/2/97 PRINTED NAME Ronald A. Dedrick

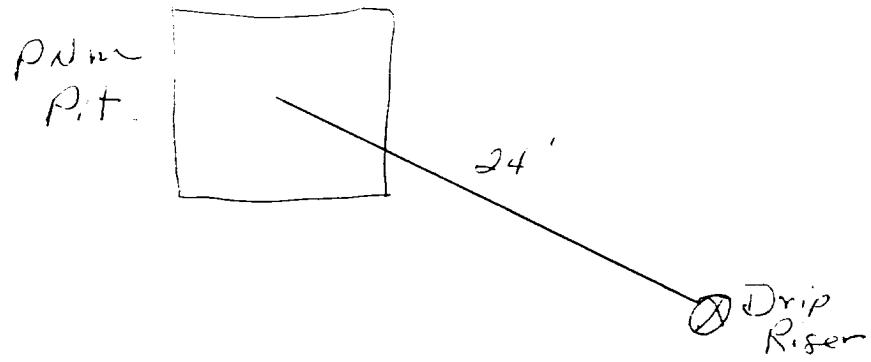
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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): spring + close

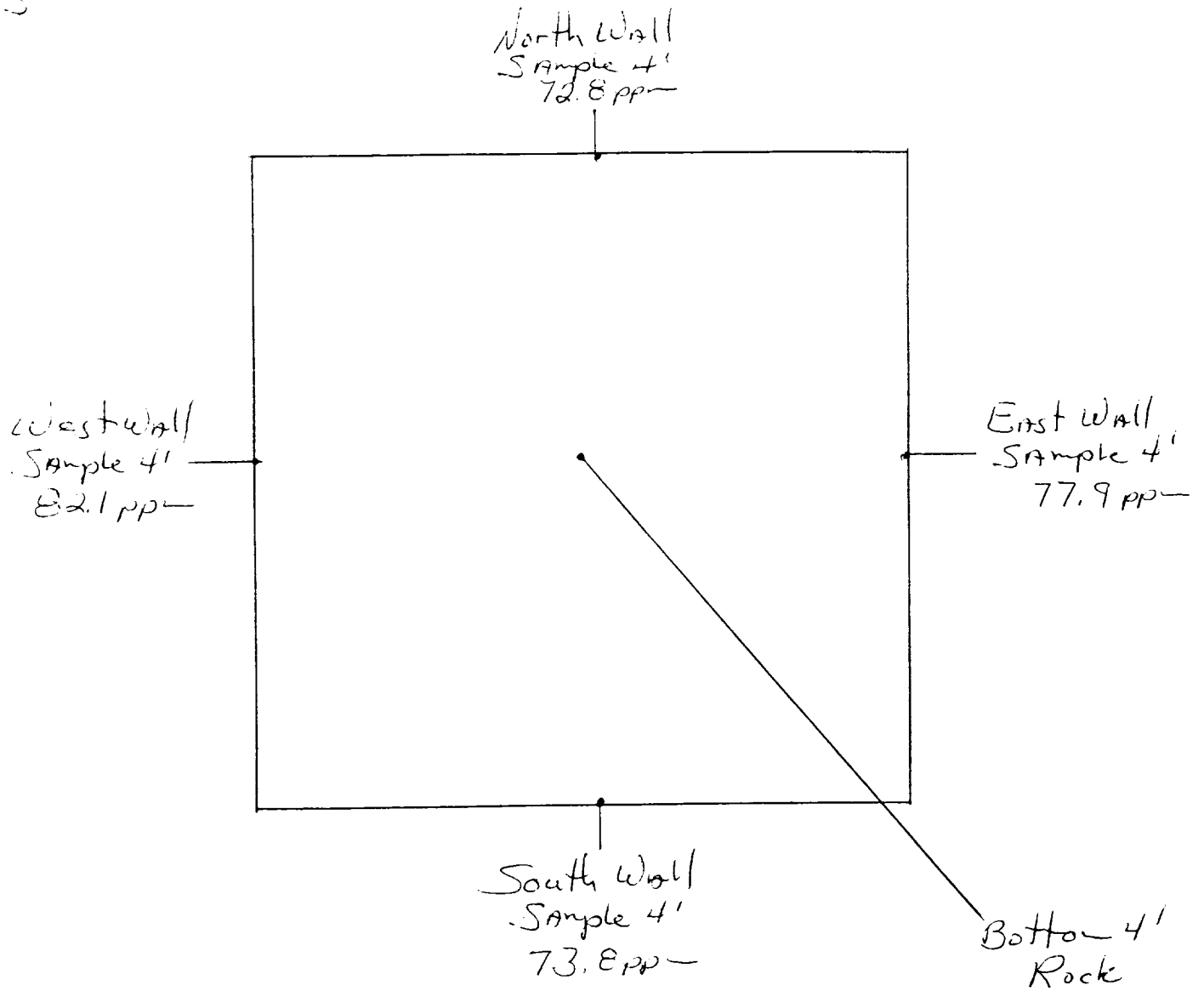
SIGNED: Kate E. Munnell DATE: 7-3-97

Jicarilla G-12 Drip  
Sec. 1 T26N R5W Unit N  
WFS



Jicarilla G-12 Drip  
Sec. 1 T26N R5W Unit N  
WFS

16' x 16' x 4'



OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

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

Date: **2-Jul-97**  
COC No.: **5496**  
Sample No.: **15086**  
Job No.: **2-1000**

Project Name: **PNM Gas Services - Jicarilla G-12 Drip**  
Project Location: **9706240800; 4pt. Composite**  
Sampled by: **TE** Date: **24-Jun-97** Time: **8:00**  
Analyzed by: **DC/HR** Date: **2-Jul-97**  
Sample Matrix: **Soil**

### Laboratory Analysis

| Parameter                                | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|------------------------------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Diesel Range Organics (C10 - C28)</i> | ND                  | mg/kg           | 5                     | mg/kg           |

ND - Not Detected at Limit of Quantitation

### Quality Assurance Report

DRO QC No.: 0548-STD

#### Continuing Calibration Verification

| Parameter                       | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD | RPD Limit |
|---------------------------------|--------------|-----------------|------------|----------------|-----|-----------|
| <i>Diesel Range (C10 - C28)</i> | ND           | ppm             | 200        | 197            | 1.6 | 15%       |

#### Matrix Spike

| Parameter                     | 1- Percent Recovered | 2 - Percent Recovered | Limit    | RPD | RPD Limit |
|-------------------------------|----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 92                   | 95                    | (70-130) | 3   | 20%       |

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

Approved by: 

Date: **2/6/97**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

### *ANALYTICAL REPORT*

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

Date: *2-Jul-97*  
COC No.: *5496*  
Sample No.: *15086*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-12 Drip***  
Project Location: ***9706240800; 4pt. Composite***  
Sampled by: *TE* Date: *24-Jun-97* Time: *8:00*  
Analyzed by: *DC* Date: *30-Jun-97*  
Sample Matrix: *Soil*

#### *Laboratory Analysis*

| Parameter           | Results<br>as Received | Unit of<br>Measure | Limit of<br>Quantitation | Unit of<br>Measure |
|---------------------|------------------------|--------------------|--------------------------|--------------------|
| <i>Benzene</i>      | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>Toluene</i>      | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>Ethylbenzene</i> | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>m,p-Xylene</i>   | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>o-Xylene</i>     | ND                     | ug/kg              | 1                        | ug/kg              |
|                     | <i>TOTAL</i>           | ND                 |                          | ug/kg              |

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*  
Date: *2/3/97*

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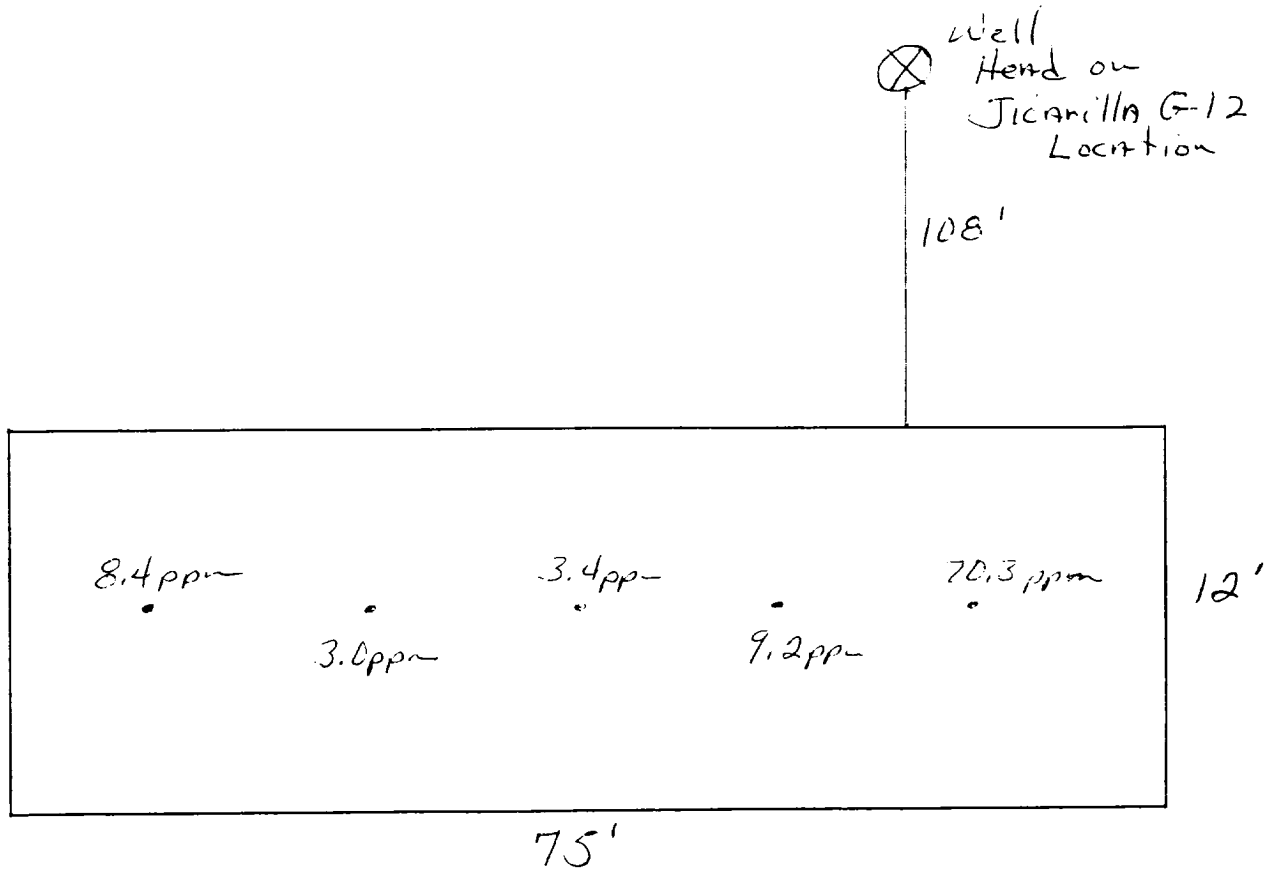
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

|                                                                                                                                                  |                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operator: <u>PNM Gas Services</u> <u>WFS</u> Telephone: <u>324-3764</u>                                                                          |                                                                                                                                                                                             |
| Address: <u>503 W. Elm Street Farmington, NM 87401</u>                                                                                           |                                                                                                                                                                                             |
| Facility or Well Name: <u>Jicarilla G-12 Drip</u>                                                                                                |                                                                                                                                                                                             |
| Location: Unit: <u>N</u> Sec. <u>1</u> T. <u>26</u> N R. <u>5</u> W County <u>Rio Arriba</u>                                                     |                                                                                                                                                                                             |
| Land Type: <u>Jicarilla Apache</u>                                                                                                               |                                                                                                                                                                                             |
| Date Remediation Started: <u>6/24/97</u> Date Completed: <u>7/3/97</u>                                                                           |                                                                                                                                                                                             |
| Remediation Method: Landfilled <input checked="" type="checkbox"/> Approx. cubic yards <u>57</u>                                                 |                                                                                                                                                                                             |
| Composted <input type="checkbox"/>                                                                                                               |                                                                                                                                                                                             |
| Other <input type="checkbox"/>                                                                                                                   |                                                                                                                                                                                             |
| Depth to Ground Water: (pts.) <u>2</u>                                                                                                           | Final Closure Sampling:<br>Sampling Date: <u>7/3/97</u> Time <u>1021</u><br>Sampling Results:<br>Field Headspace (ppm) <u>70.3</u><br>TPH (ppm) <u>6</u> Method <u>GC/MS</u><br>Other _____ |
| Distance to an Ephemeral Stream: (pts.) <u>6</u>                                                                                                 |                                                                                                                                                                                             |
| Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>                                                                               |                                                                                                                                                                                             |
| Wellhead Protection Area: (pts.) <u>0</u>                                                                                                        |                                                                                                                                                                                             |
| Distance to Surface Water: (pts.) <u>6</u>                                                                                                       |                                                                                                                                                                                             |
| Ranking Score (Total Points): <u>6</u>                                                                                                           |                                                                                                                                                                                             |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                          |                                                                                                                                                                                             |
| DATE <u>7/9/97</u>                                                                                                                               | PRINTED NAME <u>Ronald A. Dedrick</u>                                                                                                                                                       |
| SIGNATURE <u>Ronald A. Dedrick</u>                                                                                                               | AND TITLE <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 |                                                                                                                                                                                             |
| APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) <u>we can Backfill</u>                                    |                                                                                                                                                                                             |
| SIGNED: <u>Kate C. Mammill</u>                                                                                                                   | DATE: <u>7-9-97</u>                                                                                                                                                                         |

Jicarilla G-12 Drip  
Sec. 1 T26N R5W Unit N  
WFS

Land farm





OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

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

Date: *8-Jul-97*  
COC No.: *5506*  
Sample No.: *15191*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services -Jicarilla G-12 Drip Landfarm***

Project Location: ***9707031021; 5pt. Composite***

Sampled by: *RB* Date: *3-Jul-97* Time: *10:21*

Analyzed by: *DC/HR* Date: *8-Jul-97*

Sample Matrix: *Soil*

### Laboratory Analysis

| Parameter                                | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|------------------------------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Diesel Range Organics (C10 - C28)</i> | <i>6</i>            | <i>mg/kg</i>    | <i>5</i>              | <i>mg/kg</i>    |

ND - Not Detected at Limit of Quantitation

### Quality Assurance Report

DRO QC No.: 0548-STD

### Continuing Calibration Verification

| Parameter                       | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD        | RPD Limit  |
|---------------------------------|--------------|-----------------|------------|----------------|------------|------------|
| <i>Diesel Range (C10 - C28)</i> | <i>ND</i>    | <i>ppm</i>      | <i>200</i> | <i>185</i>     | <i>8.0</i> | <i>15%</i> |

### Matrix Spike

| Parameter                     | 1- Percent Recovered | 2 - Percent Recovered | Limit           | RPD      | RPD Limit  |
|-------------------------------|----------------------|-----------------------|-----------------|----------|------------|
| <i>Diesel Range (C10-C28)</i> | <i>84</i>            | <i>89</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: *Heidi Rees*  
Date: *7/9/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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