

**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

RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION  
OCT 6 1954

## PIT REMEDIATION AND CLOSURE REPORT

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<b>Operator:</b>	PNM Gas Services <u>Meridian</u>	<b>Telephone:</b>	324-3764
<b>Address:</b>	603 W. Elm Street Farmington, NM 87401		
<b>Facility or Well Name:</b>	<u>Jicarilla 103-11</u>		
<b>Location:</b>	Unit: <u>1450 FNL</u> <u>140 FNL</u>	Sec. <u>15</u>	T <u>26</u> N R. <u>4</u> W County <u>Rio Arriba</u>
<b>Pit Type:</b>	Separator <u>    </u>	Dehydrator <u>    </u>	Other <u>Unknown</u>
<b>Land Type:</b>	<u>Jicarilla Apache</u>		

<b>Pit Location:</b>	Pit dimensions:	length <u>19'</u>	width <u>17'</u>	depth <u>10'</u>
(Attach diagram)	Reference:	wellhead <u>X</u>	other <u>    </u>	
	Footage from reference:	<u>81'</u>		
	Direction from reference:	<u>45</u> Degrees	East <u>    </u>	North <u>    </u>
			West <u>    </u>	South <u>    </u>
			of	

<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)	<u>0</u>
	Greater than 100 feet	(0 points)	
<b>Wellhead Protection Area:</b>	Yes	(20 points)	<u>0</u>
(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)	<u>0</u>
	Greater than 1,000 feet	(0 points)	
<b>Distance to Ephemeral Stream (dry wash):</b>	Less than or equal to 100 feet	(10 points)	<u>10</u>
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet	(0 points)	
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b>	Less than or equal to 100 feet	(10 points)	<u>0</u>
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Greater than 100 feet	(0 points)	

<b>RANKING SCORE (TOTAL POINTS):</b>	<u>10</u>
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Date Remediation Started: 8/5/96 Date Completed: \_\_\_\_\_

Remediation Method: Excavation X Approx. Cubic Yards 120

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 85

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 and bottom of pit its to get it below 100 ppm head space reading.

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

Final Pit Closure Sampling: Sample Location North, East, South, West side walls and bottom of pit

(if multiple samples, attach sample result and diagram of sample locations and depths.) Sample depth 10'

Sample date 8/5/96 Sample time 1557

Sample Results

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

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

Field headspace (ppm) 5.9 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 8/11/96 PRINTED NAME Ronald A. Dedrick

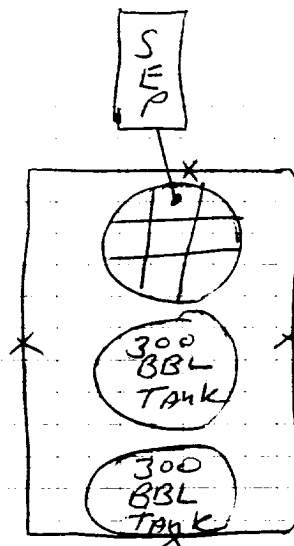
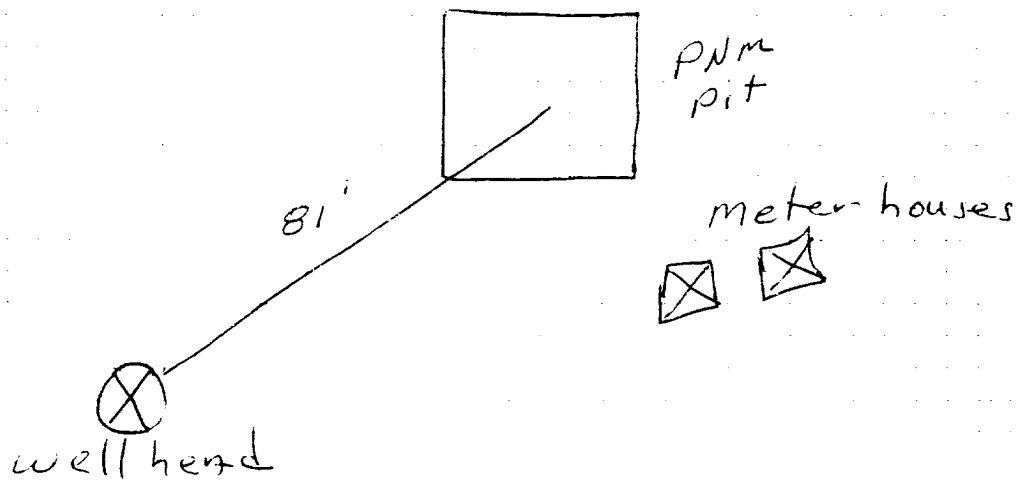
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

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

SIGNED: Karena Castille DATE: August 12, 1996

Jicarilla 103-11  
Sec. 18 T26N R4W  
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: *8-Aug-96*  
COC No.: *4765*  
Sample No. *11689*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla 103-11 Run 12-51*  
Project Location: *9608051557; 5pt. Composite*  
Sampled by: *EP* Date: *5-Aug-96* Time: *15:57*  
Analyzed by: *DC* Date: *8-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>100</i>	<i>101</i>	<i>1.0</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>96</i>	<i>91</i>	<i>(70-130)</i>	<i>4</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *8/8/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
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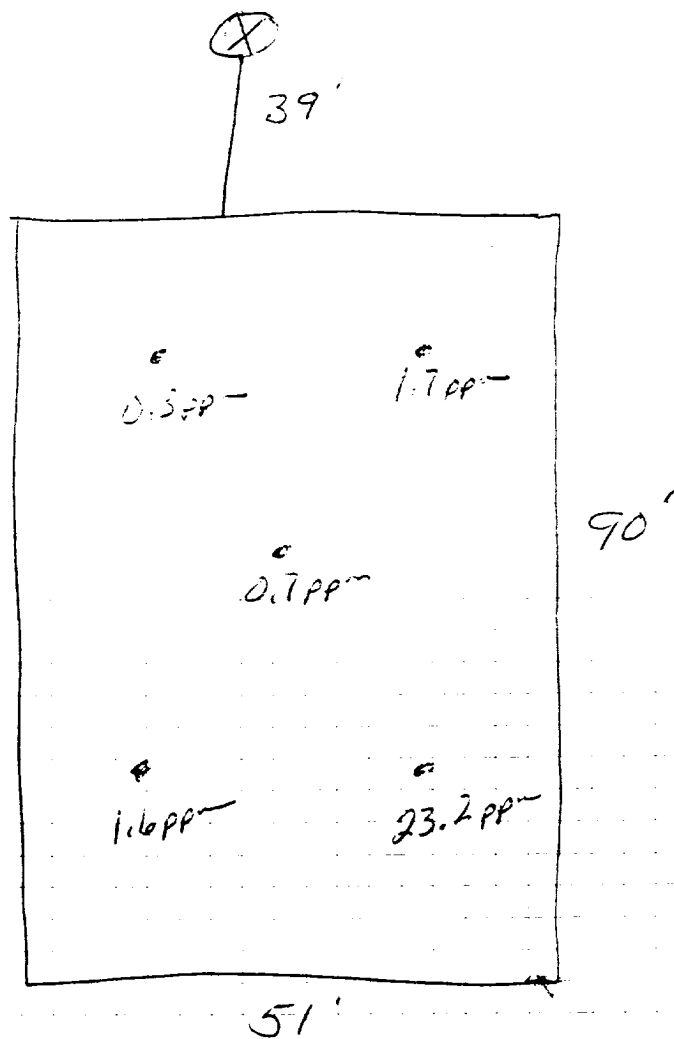
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services (Meridian) <b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401	
<b>Facility or Well Name:</b> Jicarilla 103-11	
<b>Location:</b>	Unit: 1450' FNL 190' FWL Sec. 18 T. 26 N R. 4 W County Rio Arriba
<b>Land Type:</b> Jicarilla Apache	
<b>Date Remediation Started:</b> 8/5/96 <b>Date Completed:</b> 9/5/96	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> <b>Approx. cubic yards:</b> 85	
Composted <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Depth to Ground Water:</b> (pts.) 0	<b>Final Closure Sampling:</b> <b>Sampling Date:</b> 8/13/96 <b>Time:</b> 1225 <b>Sampling Results:</b> Field Headspace (ppm) 23.2 TPH (ppm) 450 Method 8015 Other _____
<b>Distance to an Ephemeral Stream:</b> (pts.) 10	
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) 0	
<b>Wellhead Protection Area:</b> (pts.) 0	
<b>Distance to Surface Water:</b> (pts.) 0	
<b>Ranking Score (Total Points):</b> 10	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
<b>DATE:</b> 8/18/96 <b>PRINTED NAME:</b> Ronald A. Dedrick	
<b>SIGNATURE:</b> <u>Ronald A. Dedrick</u> <b>AND TITLE:</b> Environmental Technician II	
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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
<b>SIGNED:</b> <u>Joe C. Marshall</u> <b>DATE:</b> 8-19-96	

Jicarilla 103-11  
Sec. 18 T26N R4W  
Meridian

Land Farm



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: *16-Aug-96*  
COC No.: *4842*  
Sample No. *11786*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla 103-11 Landfarm Run 12-51*  
Project Location: *9608131225; 5pt. Composite*  
Sampled by: *RD* Date: *13-Aug-96* Time: *12:25*  
Analyzed by: *DC/HR* Date: *16-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.: 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>97</i>	<i>2.9</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>112</i>	<i>114</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *8/16/96*

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