

DEFINITION OF OIL AND GAS INSPECTOR

MAR 28 1997

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 ( Conoco ) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla B-10

Location: Unit: G Sec. 36 T. 26 N R. 4 W County Rio Arriba

Pit Type: Separator X Dehydrator      Other     

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 18' depth 24'

(Attach diagram) Reference: wellhead X other     

Footage from reference: 90'

Direction from reference: Straight Degrees X East of North       
West of South     

Depth to Ground Water:

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

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

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)

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)

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)

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)

RANKING SCORE (TOTAL POINTS):

10

Date Remediation Started: 9/9/96 Date Completed: 10-17-96

Remediation Method: Excavation X Approx. Cubic Yards 320

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 320

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 side walls as to get a below 100 ppm head space reading. Bottom was solid sand stone

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 23'

Sample date 9/9/96 Sample time 1338

Sample Results

Soil: Benzene (ppm) 50,000.2 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.9951 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 88.4 Ethylbenzene (ppb) \_\_\_\_\_

TPH 55.0 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 9/15/96 PRINTED NAME Ronald A. Dedrick

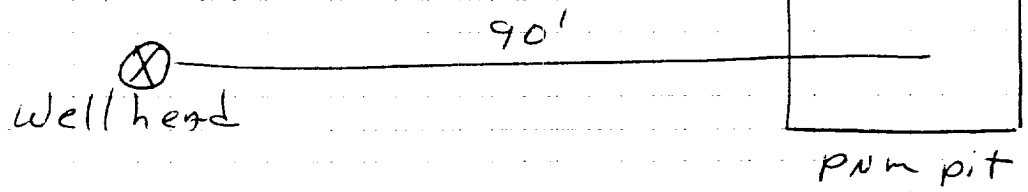
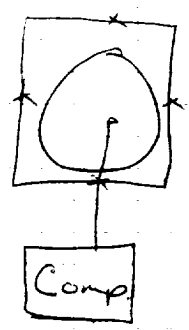
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

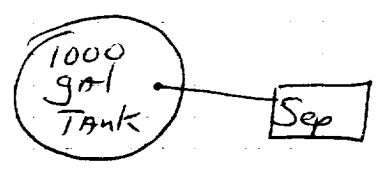
APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: K. C. Mammill DATE: 9-17-96

Jicarilla B-10  
Sec. 36 T26N R4W Unit G  
Conoco



Well head



Meter house

OFF: (505) 325-5667



LAB: (505) 325-556

***Diesel Range Organics***

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

Date: *11-Sep-96*  
 COC No.: *5254*  
 Sample No. *12073*  
 Job No. *2-1000*

Project Name: ***PNM Gas Services - Jicarilla B-10 Run 12-72***  
 Project Location: ***9609091338; 4pt. Composite***  
 Sampled by: EP Date: *9-Sep-96* Time: *13:38*  
 Analyzed by: DC Date: *11-Sep-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>99</i>	<i>0.6</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>98</i>	<i>114</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

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

Approved by: *[Signature]*  
 Date: *9/12/96*

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: *12-Sep-96*  
COC No.: *5254*  
Sample No.: *12073*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla B-10 Run 12-72*  
Project Location: *9609091338; 4pt. Composite*  
Sampled by: *EP* Date: *9-Sep-96* Time: *13:38*  
Analyzed by: *DC* Date: *11-Sep-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>Benzene</i>	<i>&lt;0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>48.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>54.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>836.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>55.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>		<i>995.1</i>		<i>ug/kg</i>

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

Approved by: *Jack*  
Date: *9/12/96*

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NATURAL  
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AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services ( <u>Conoco</u> )		<b>Telephone:</b> <u>324-3764</u>	
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>			
<b>Facility or Well Name:</b> <u>Jicarilla B-10</u>			
<b>Location:</b>	<b>Unit:</b> <u>G</u>	<b>Sec.</b> <u>36</u> <b>T.</b> <u>26</u> <b>N.</b> <u>4</u> <b>W.</b> <u>4</u>	<b>County:</b> <u>Rio Arriba</u>
<b>Land Type:</b> <u>Jicarilla Apache</u>			
<b>Date Remediation Started:</b> <u>9/9/96</u>		<b>Date Completed:</b> <u>10/7/96</u>	
<b>Remediation Method:</b> Landfarmed <u>X</u>		<b>Approx. cubic yards:</b> <u>320</u>	
Composted <u>      </u>			
Other <u>      </u>			
<b>Depth to Ground Water:</b> (pts.) <u>0</u>		<b>Final Closure Sampling:</b>  <b>Sampling Date:</b> <u>10/7/96</u> <b>Time:</b> <u>1353</u>  <b>Sampling Results:</b>  <b>Field Headspace (ppm):</b> <u>23.4</u>  <b>TPH (ppm):</b> <u>6.2</u> <b>Method:</b> <u>8015</u>  <b>Other:</b> <u>      </u>	
<b>Distance to an Ephemeral Stream:</b> (pts.) <u>10</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>10</u>			
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p>			
<b>DATE:</b> <u>10-11-96</u>		<b>PRINTED NAME:</b> <u>Roy Burnham</u>	
<b>SIGNATURE:</b> <u>Roy Burnham</u>		<b>AND TITLE:</b> <u>Environmental Technician II</u>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p>			
<b>APPROVED:</b> YES <u>✓</u> NO <u>      </u> (REASON) <u>      </u>			
<b>SIGNED:</b> <u>Habriel Julian</u>		<b>DATE:</b> <u>10/15/96</u>	

Sec. 36 T26N R4W  
Conoco

Land farm

⊗ wellhead

57'

120'

51.2 ppm

52.7 ppm

16.2 ppm

31.5 ppm

83.6 ppm

51

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: *10-Oct-96*  
 COC No.: *5353*  
 Sample No. *12478*  
 Job No. *2-1000*

Project Name: *PNM Gas Services - Jicarilla B-10 Landfarm Run 12-72*  
 Project Location: *9610071353; 5pt. Composite*  
 Sampled by: *RD* Date: *7-Oct-96* Time: *13:53*  
 Analyzed by: *DC/HR* Date: *9-Oct-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>6.2</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

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<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>3.8</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>89</i>	<i>98</i>	<i>(70-130)</i>	<i>7</i>	<i>20%</i>

***Method*** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *10/10/96*

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