

District I  
P. O. Box 1500  
Santa Fe, NM 87505

District II  
P. O. Drawer 1134  
Santa Fe, NM 87502

District III  
1000 Rio Brazos Rd. Aztec, NM 87410  
**JUL 18 1997**

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND COPY TO  
SANTA FE OFFICE

*Denny S. Frost*  
**DEPUTY OIL & GAS INSPECTOR**

**OIL CONSERVATION DIVISION**

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**PIT REMEDIATION AND CLOSURE REPORT**

*Approved*

**Operator:** PNM Gas Services (Amoco) **Telephone:** 324-3764

**Address:** 603 W. Elm Street Farmington, NM 87401

**Facility or Well Name:** Omler A #2E

**Location:** Unit: D Sec: 35 T: 28 N R: 10 W County: San Juan

**Pit Type:** Separator ☒ Dehydrator ☐ Other ☐

**Land Type:** BLM ☒ State ☐ Fee ☐ Other ☐

**Pit Location:** Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 93'

Direction from reference: 13 Degrees ☒ East ☐ North ☒  
of  
☐ West ☐ South ☐

**Depth to Ground Water:**

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

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

**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 ☐ No ☒  
**RECEIVED**  
APR 24 1997  
(20 points) 0  
(10 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)	<u>10</u>

**RANKING SCORE (TOTAL POINTS):** 10

**OIL CON. DIV.**  
**DIST. 3**

Date Remediation Started:

10/11/96

Date Completed:

10/14/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

143

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

143

Other

Remediation Location:

Onsite

☒

Offsite

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

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 23'x21'x8' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

Ground Water Encountered:

No

☒

Yes

Depth

Final Pit Closure Sampling:

Sample Location

Bottom of excavation.

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

Sample depth

8'

Sample date

10/17/96

Sample time

10:10:00 AM

Sample Results

Benzene (ppm)

0.0196

Total BTEX (ppm)

10.6815

Field headspace (ppm)

TPH

321.30

Method

8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

No

☒

(If yes, see attached Groundwater Site Summary Report)

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

DATE

April 28, 1997

SIGNATURE


PRINTED NAME  
AND TITLE

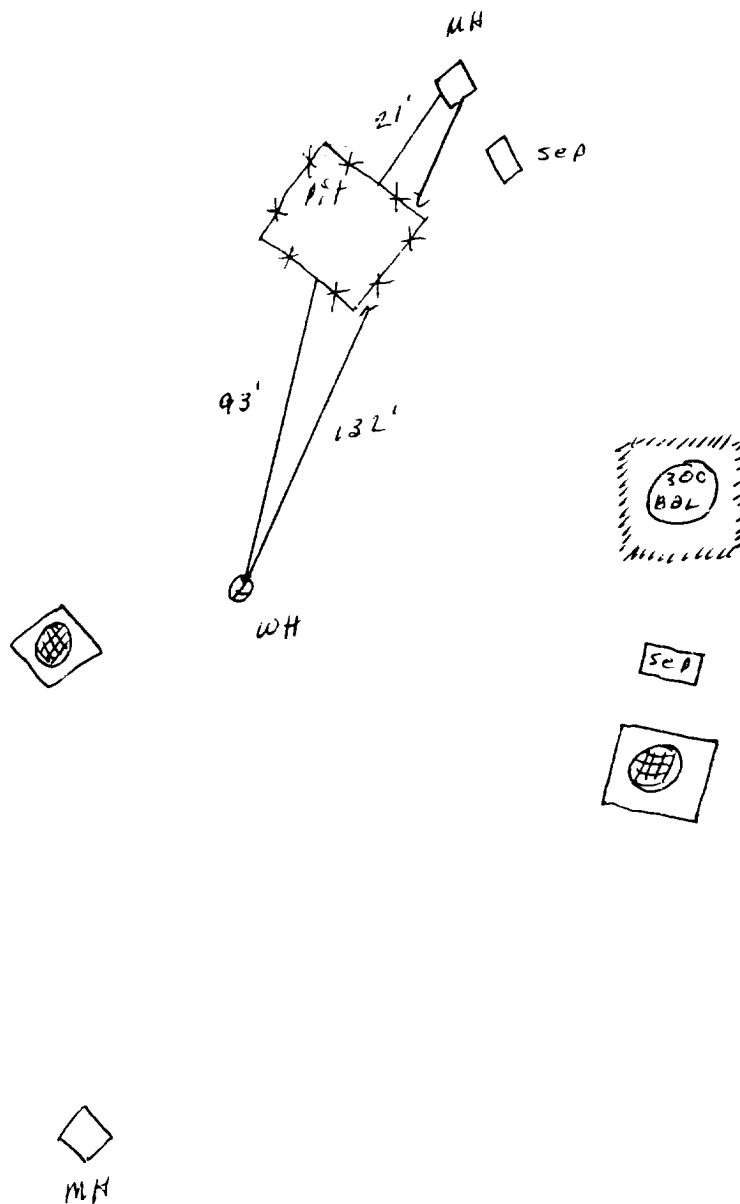
Denver Bearden  
Administrator III

Oliver A # 2E

13° E of N

93' from WH

↑  
N



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: *17-Oct-96*  
 COC No.: *4890*  
 Sample No. *12588*  
 Job No. *2-1000*

Project Name: ***PNM Gas Services - Olmer A #2E***  
 Project Location: ***9610141010; Pit Excavation Composite, Bottom Sample***  
 Sampled by: *RH* Date: *14-Oct-96* Time: *10:10*  
 Analyzed by: *DC/HR* Date: *17-Oct-96*  
 Sample Matrix: *Soil*

***Laboratory Analysis***

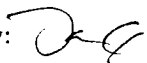
<b><i>Parameter</i></b>	<b><i>Result</i></b>	<b><i>Unit of Measure</i></b>	<b><i>Detection Limit</i></b>	<b><i>Unit of Measure</i></b>
<i>Diesel Range Organics (C10 - C28)</i>	<i>321.3</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

***Quality Assurance Report***DRO QC No.: *0489-QC****Calibration Check***

<b><i>Parameter</i></b>	<b><i>Method Blank</i></b>	<b><i>Unit of Measure</i></b>	<b><i>True Value</i></b>	<b><i>Analyzed Value</i></b>	<b><i>% Diff</i></b>	<b><i>Limit</i></b>
<i>Diesel Range (C10 - C28)</i>	<i>&lt; 5.0</i>	<i>ppm</i>	<i>100</i>	<i>99</i>	<i>0.7</i>	<i>15%</i>

***Matrix Spike***

<b><i>Parameter</i></b>	<b><i>1 - Percent Recovered</i></b>	<b><i>2 - Percent Recovered</i></b>	<b><i>Limit</i></b>	<b><i>%RSD</i></b>	<b><i>Limit</i></b>
<i>Diesel Range (C10-C28)</i>	<i>105</i>	<i>114</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

***Method*** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *10/17/96*

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: *17-Oct-96*  
COC No.: *4890*  
Sample No. *12588*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer A #2E*  
Project Location: *9610141010; Pit Excavation Composite, Bottom Sample*  
Sampled by: *RH* Date: *14-Oct-96* Time: *10:10*  
Analyzed by: *DC* Date: *17-Oct-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>19.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>929.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>679.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>7146.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>1906.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>10681.5</i>		<i>ug/kg</i>

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

Approved by: *[Signature]*  
Date: *10/17/96*

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: *17-Oct-96*  
COC No.: *4891*  
Sample No. *12589*  
Job No. *2-1000*

Project Name: ***PNM Gas Services - Olmer A #2E***  
Project Location: ***9610141000; Pit Excavation Composite, Wall Sample***  
Sampled by: *RH* Date: *14-Oct-96* Time: *10:00*  
Analyzed by: *DC/HR* Date: *17-Oct-96*  
Sample Matrix: *Soil*

***Laboratory Analysis***

<b><i>Parameter</i></b>	<b><i>Result</i></b>	<b><i>Unit of Measure</i></b>	<b><i>Detection Limit</i></b>	<b><i>Unit of Measure</i></b>
<i>Diesel Range Organics (C10 - C28)</i>	<i>104.5</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

***Quality Assurance Report***

DRO QC No.: *0489-QC*

***Calibration Check***

<b><i>Parameter</i></b>	<b><i>Method Blank</i></b>	<b><i>Unit of Measure</i></b>	<b><i>True Value</i></b>	<b><i>Analyzed Value</i></b>	<b><i>% Diff</i></b>	<b><i>Limit</i></b>
<i>Diesel Range (C10 - C28)</i>	<i>&lt;5.0</i>	<i>ppm</i>	<i>100</i>	<i>99</i>	<i>0.7</i>	<i>15%</i>

***Matrix Spike***

<b><i>Parameter</i></b>	<b><i>1 - Percent Recovered</i></b>	<b><i>2 - Percent Recovered</i></b>	<b><i>Limit</i></b>	<b><i>%RSD</i></b>	<b><i>Limit</i></b>
<i>Diesel Range (C10-C28)</i>	<i>105</i>	<i>114</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *10/17/96*

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**- 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: *17-Oct-96*  
COC No.: *4891*  
Sample No.: *12589*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Olmer A #2E*  
Project Location: *9610141000; Pit Excavation Composite, Wall Sample*  
Sampled by: *RH* Date: *14-Oct-96* Time: *10:00*  
Analyzed by: *DC* Date: *16-Oct-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	2.0	ug/kg	0.2	ug/kg
<i>Toluene</i>	22.1	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	44.6	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	575.9	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	176.5	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	821.2	ug/kg	

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

Approved by: *[Signature]*  
Date: *10/17/96*

Omler A #2E  
Amoco  
Sec. 35, 28N, 10W

12-26-96

LandFarmed: On location

Composite sample # 961226093D

Soil vapor headspace PID reading = 48.6 ppm

6.2	3.8	1.9
2.9	5.3	4.1

⊗

2"-12" depth

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: *31-Dec-96*  
 COC No.: *5110*  
 Sample No. *13263*  
 Job No. *2-1000*

Project Name: *PNM Gas Services - Omler A #2E Landfarm*  
 Project Location: *9612260930; 6pt. Composite, 2"-12" depth*  
 Sampled by: *GC* Date: *26-Dec-96* Time: *9:30*  
 Analyzed by: *HR* Date: *30-Dec-96*  
 Sample Matrix: *Soil*

**Laboratory Analysis**

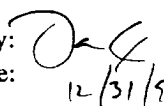
<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>754.4</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

**Quality Assurance Report**DRO QC No.: *0512-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>98</i>	<i>1.6</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>123</i>	<i>106</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

**Method** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *12/31/96*

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