

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Omler #5
Location: Unit: F Sec. 26 T. 28 N R. 10 W County San Juan
Pit Type: Separator ☒ Dehydrator ☐ Other ☐ Drip ☐
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐ No ☐

Pit Location: Pit dimensions: length 15 width 15 depth 3
(Attach diagram) Reference: wellhead ☒ other ☐
Footage from reference: 98'
Direction from reference: 72 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)

*Vertical distance from contaminants to
seasonal high water elevation of ground
water

0

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)

RECEIVED
IN APR 24 1997

0

Distance to Surface Water:

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

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

0

RANKING SCORE (TOTAL POINTS):

0

Date Remediation Started: 10/16/96 Date Completed: 10/16/96Remediation Method: Excavation X Approx. Cubic Yard 42

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 42

Other _____

Remediation Location: Onsite X Offsite _____

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

Backfill Material Location: _____

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 13'x11'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 10/16/96 Sample time 10:30:00 AM

Sample Results

Benzene (ppm) 0.0016Total BTEX (ppm) 0.0984

Field headspace (ppm) _____

TPH < 5.00 Method 8015AVertical 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

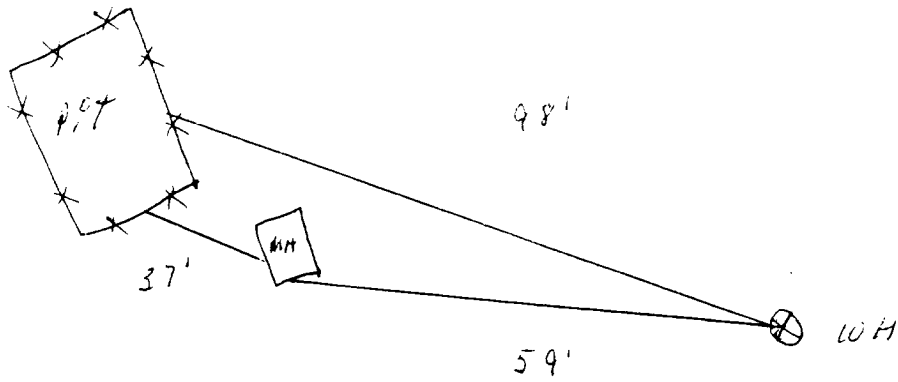
PRINTED NAME
AND TITLEDenver Bearden
Administrator III

Colmer #5

72° w of N

98' from wellhead

↑
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.: *4894*
Sample No. *12599*
Job No. *2-1000*

Project Name: ***PNM Gas Services - Olmer 5***
Project Location: ***9610161030; Pit Excavation Composite, Bottom Sample***
Sampled by: *RH* Date: *16-Oct-96* Time: *10:30*
Analyzed by: *DC/HR* Date: *17-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><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

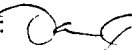
Quality Assurance Report*DRO QC No.: 0489-QC****Calibration Check***

<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><5.0</i>	<i>ppm</i>	<i>100</i>	<i>99</i>	<i>0.7</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>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: 
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.: 4894
Sample No.: 12599
Job No.: 2-1000

Project Name: *PNM Gas Services - Olmer 5*
Project Location: *9610161030; Pit Excavation Composite, Bottom Sample*
Sampled by: RH Date: 16-Oct-96 Time: 10:30
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>	1.6	ug/kg	0.2	ug/kg
<i>Toluene</i>	15.3	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	3.3	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	61.4	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	16.8	ug/kg	0.2	ug/kg
	TOTAL	98.4		ug/kg

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

Approved by: 
Date: 10/17/96

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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.: *4894*
 Sample No. *12600*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer 5*
 Project Location: *9610161035; Pit Excavation Composite, Wall Sample*
 Sampled by: *RH* Date: *16-Oct-96* Time: *10:35*
 Analyzed by: *DC/HR* Date: *17-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>6.7</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

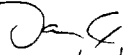
Quality Assurance ReportDRO QC No.: *0489-QC****Calibration Check***

<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><5.0</i>	<i>ppm</i>	<i>100</i>	<i>99</i>	<i>0.7</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>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: 
 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.: *4894*
Sample No. *12600*
Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer 5*
Project Location: *9610161035; Pit Excavation Composite, Wall Sample*
Sampled by: *RH* Date: *16-Oct-96* Time: *10:35*
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>	689.4	ug/kg	0.2	ug/kg
<i>Toluene</i>	2502.0	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	376.0	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	4023.5	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	1078.7	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	8669.7		ug/kg

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

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

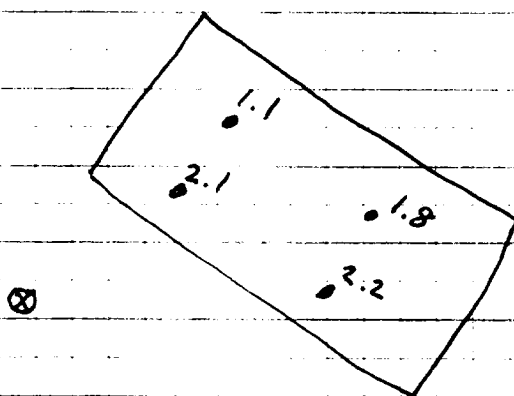
Omler # 5
Amoco
Sec. 26, 28N, 10W

12-26-96

LandFarm: On location

Composite sample # 962026 1000

Soil vapor head space PIO reading = 37.6 ppm



2"-12" depth

OIE: (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.: *5108*
 Sample No. *13261*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Omler #5 Landfarm*
 Project Location: *9612261000; 4pt. Composite, 2"-12" depth*
 Sampled by: GC Date: *26-Dec-96* Time: *10:00*
 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><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance ReportDRO 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><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 Chromatography

Approved by: *[Signature]*
 Date: *12/31/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -