

Farmington, NM
DEPUTY OIL & GAS INSPECTOR

District III
1000 Rio Brazos Rd. Aztec, NM 87401
JUL 18 1997

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

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 A #1E

Location: Unit: F Sec. 26 T. 28 N R. 10 W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other None

Land Type: BLM ☒ State ☐ Fee ☐ Other No

Pit Location: Pit dimensions: length 18 width 18 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 112

Direction from reference: 6 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) 0

(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 ☐ (20 points)
No ☐ (0 points) 0

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) 10

RANKING SCORE (TOTAL POINTS): 10

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Date Remediation Started:

10/15/96

Date Completed:

10/15/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

196

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

176

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 a pit size of 18'X14'X21' and landfarmed soil onsite within a bermed area of 6" to 12". Soil was aerated by disking/plowing 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

21'

Sample date

10/15/96

Sample time

10:40:00 AM

Sample Results

Benzene (ppm)

0.3160

Total BTEX (ppm)

17.1749

Field headspace (ppm)

TPH

601.30

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

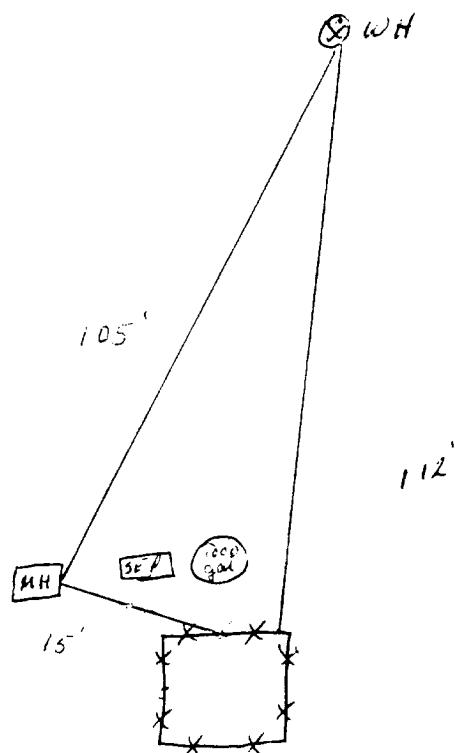
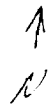

PRINTED NAME
AND TITLE

Denver Bearden
Administrator III

Column A #12

6° w of S

112' from Ref.



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.: *4893*
 Sample No. *12591*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer A #1E*
 Project Location: *9610151040; Pit Excavation Composite, Bottom Sample*
 Sampled by: *RH* Date: *15-Oct-96* Time: *10:40*
 Analyzed by: *DC/HR* Date: *17-Oct-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>601.3</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0489-QC*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<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

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<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*

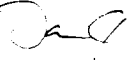
Date: *17-Oct-96*
COC No.: *4893*
Sample No. *12591*
Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer A #1E*
Project Location: *9610151040; Pit Excavation Composite, Bottom Sample*
Sampled by: *RH* Date: *15-Oct-96* Time: *10:40*
Analyzed by: *DC* Date: *17-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	316.0	ug/kg	0.2	ug/kg
Toluene	560.5	ug/kg	0.2	ug/kg
Ethylbenzene	839.5	ug/kg	0.2	ug/kg
m,p-Xylene	12286.8	ug/kg	0.2	ug/kg
o-Xylene	3172.1	ug/kg	0.2	ug/kg
	TOTAL	17174.9	ug/kg	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics 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

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.: *4892*
 Sample No. *12590*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer A #1E*
 Project Location: *9610151045; Pit Excavation Composite, Wall Sample*
 Sampled by: *RH* Date: *15-Oct-96* Time: *10:45*
 Analyzed by: *DC/HR* Date: *17-Oct-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	1194.3	mg/kg	5.0	mg/kg

Quality Assurance Report

DRG QC No.: *0489-QC*


Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	100	99	0.7	15%

Matrix Spike

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

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.: *4892*
Sample No. *12590*
Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer A #1E*
Project Location: *9610151045; Pit Excavation Composite, Wall Sample*
Sampled by: *RH* Date: *15-Oct-96* Time: *10:45*
Analyzed by: *DC* Date: *16-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	68.1	ug/kg	0.2	ug/kg
Toluene	367.0	ug/kg	0.2	ug/kg
Ethylbenzene	1875.5	ug/kg	0.2	ug/kg
m,p-Xylene	15875.0	ug/kg	0.2	ug/kg
o-Xylene	4377.8	ug/kg	0.2	ug/kg
	TOTAL	22563.4	ug/kg	

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

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

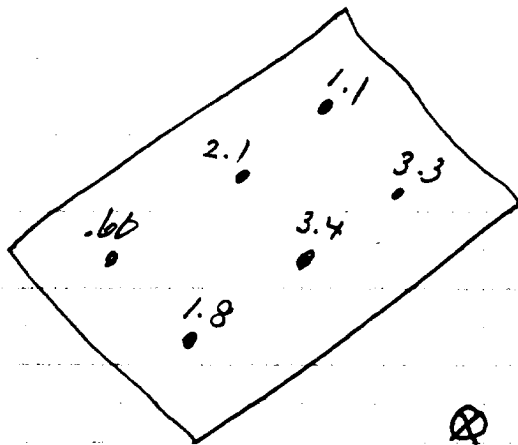
Omler A# 1E
Amold
Sec. 26; 28N, 10W

12-26-96

Land Farmed: On location

Composite sample # 9612260945

soil vapor head space PID reading = 58.3 ppm



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.: *5109*
 Sample No. *13262*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Omler A #1E Landfarm*
 Project Location: *9612260945; 6pt. Composite, 2"-12" depth*
 Sampled by: GC Date: *26-Dec-96* Time: *9:45*
 Analyzed by: HR Date: *30-Dec-96*
 Sample Matrix: *Soil*

Laboratory Analysis

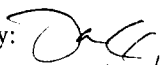
<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>428.9</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

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 ChromatographyApproved by: Date: *12/31/96*

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