

District I  
P.O. Box 1200, Santa Fe, NM 87501

District II  
P.O. Box 1200, Santa Fe, NM 87501

District III  
1000 Rio Brazos Rd. Albuquerque, NM 87106

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

**DEPUTY OIL & GAS INSPECTOR**

**OIL CONSERVATION DIVISION**

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**JUL 18 1997**

**PIT REMEDIATION AND CLOSURE REPORT**

*Approved*

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

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

**Facility or Well Name:** McClanahan A #1

**Location:** Unit: M Sec. 23 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 18 width 18 depth 4

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 81'

Direction from reference: 41 Degrees ☐ East ☐ North ☐ of ☒ West ☐ 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) 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) 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) 0

**RANKING SCORE (TOTAL POINTS):** 0

**RECEIVED**  
**APR 24 1997**  
**OIL CON. DIV.**  
**DIST. 3**

Date Remediation Started:

10/23/96

Date Completed:

10/25/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

187

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

166.6

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 15'X21'X16' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.

Ground Water Encountered:

No

☒

Yes

Depth

Final Pit Closure Sampling:

Sample Location

5 pt composite-4 side walls and center of pit bottom

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

Sample depth

16'

Sample date

10/24/96

Sample time

10:30:00 AM

Sample Results

Benzene (ppm)

0.0142

Total BTEX (ppm)

1.2504

Field headspace (ppm)

TPH

&lt;

5.00

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



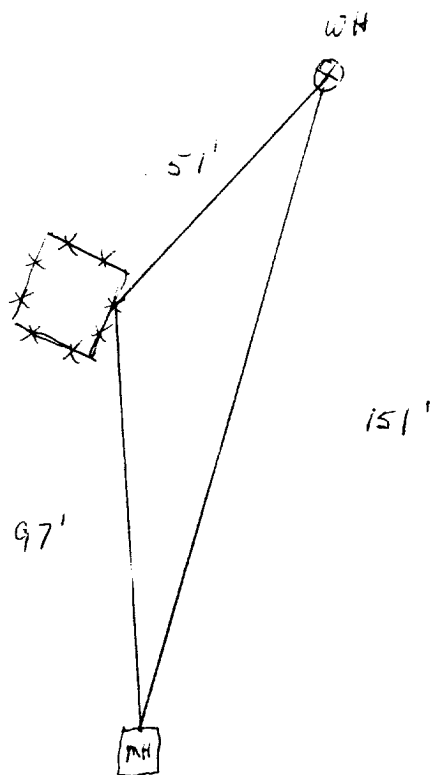
PRINTED NAME  
AND TITLE

Denver Bearden  
Administrator III

M<sup>c</sup>Clanahan A #1

42° 00' S

51' from wellhead



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: *28-Oct-96*  
COC No.: *5083*  
Sample No. *12692*  
Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan A #1*  
Project Location: *9610241030; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *24-Oct-96* Time: *10:30*  
Analyzed by: *DC/HR* Date: *28-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>&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>101</i>	<i>0.5</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>114</i>	<i>104</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: *10/20/96*

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: *28-Oct-96*  
COC No.: *5083*  
Sample No.: *12692*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A #1*  
Project Location: *9610241030; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *24-Oct-96* Time: *10:30*  
Analyzed by: *DC* Date: *25-Oct-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>14.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>38.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>141.3</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>980.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>76.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>1250.4</i>		<i>ug/kg</i>

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

Approved by: *[Signature]*

Date: *10/28/96*

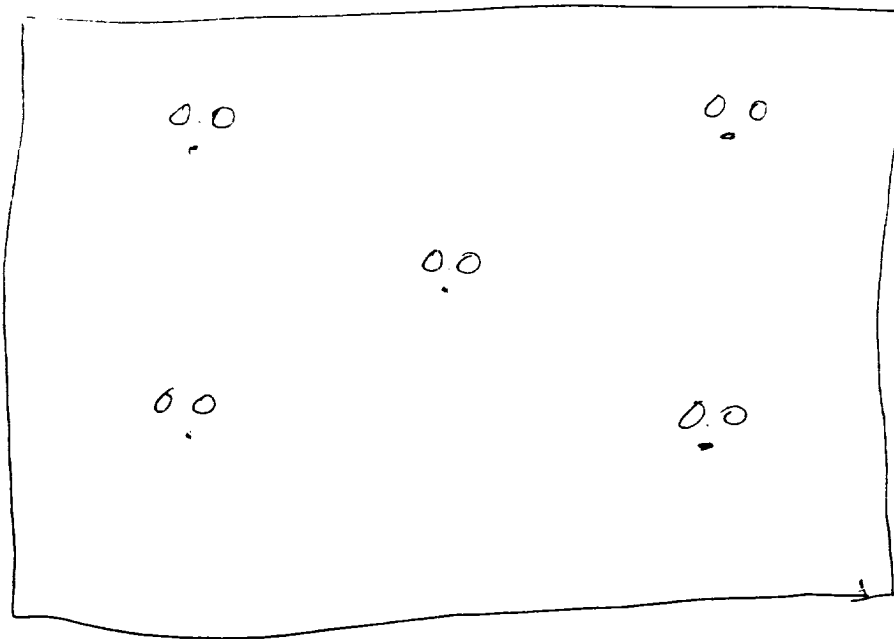
P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

McCLANAHAN A-1  
Sec. 23 T28N R10W  
Meridian

12-20-16

Land Farm on Location - 177 cu. yds.  
Composite Sample # 9612201032  
Soil Vapor Headspace Reading - 52.0 ppb - PID



Sample Depths Between  
2" & 12"

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: *24-Dec-96*  
 COC No.: *5375*  
 Sample No. *13222*  
 Job No. *2-1000*

Project Name: ***PNM Gas Services - McClanahan A-1 Landfarm Run 11-51***  
 Project Location: ***9612201032; 5pt. Composite***  
 Sampled by: *RD* Date: *20-Dec-96* Time: *10:32*  
 Analyzed by: *DC/HR* Date: *23-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>&lt;5.0</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>92</i>	<i>8.2</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: *12/24/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -