

District I *[Signature]*  
P O Box 1980, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

FEB 28 1997

## PIT REMEDIATION AND CLOSURE REPORT

RECEIVED  
OCT 21 1956

012 0201, DIV.

<b>Operator:</b>	PNM Gas Services ( Snyder )	<b>Telephone:</b>	324-3764
<b>Address:</b>	603 W. Elm Street Farmington, NM 87401		
<b>Facility or Well Name:</b>	Manley #1		
<b>Location:</b>	Unit: <u>P</u>	Sec. <u>31</u>	T. <u>29 N</u> R. <u>10 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <u>      </u>	Dehydrator <u>      </u>	Other <u>No PNM equipment</u>
<b>Land Type:</b>	BLM <u>✓</u>	State <u>      </u>	Fee <u>      </u> Other <u>      </u>

<b>Pit Location:</b>	Pit dimensions:	length <u>15</u>	width <u>15</u>	depth <u>3</u>
(Attach diagram)	Reference:	wellhead <u>✓</u>	other <u>      </u>	
	Footage from reference:	<u>82'</u>		
	Direction from reference:	<u>73</u> Degrees	<u>✓</u> East	North <u>✓</u>
			West	South <u>      </u>

<b>Depth to Ground Water:</b>	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)	Greater than 100 feet	( 0 points)	0

<b>Wellhead Protection Area:</b>	Yes	(20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No	( 0 points)	0

<b>Distance to Surface Water:</b>	Less than 200 feet	(20 points)	
	200 feet to 1,000 feet	(10 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Greater than 1,000 feet	( 0 points)	0

<b>RANKING SCORE (TOTAL POINTS) :</b>	0
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Date Remediation Started: \_\_\_\_\_

Date Completed: \_\_\_\_\_

Remediation Method:

Excavation \_\_\_\_\_

Approx. Cubic Yard \_\_\_\_\_

(Check all appropriate sections)

Landfarmed \_\_\_\_\_

Amount Landfarmed (cubic yds) \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location:

Onsite \_\_\_\_\_

Offsite \_\_\_\_\_

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

Backfill Material Location: \_\_\_\_\_

General Description of Remedial Action:

No remedial action necessary. Lab results below BLM/OCD standards

Ground Water Encountered:

No



Yes

Depth \_\_\_\_\_

Final Pit Closure  
Sampling:

Sample Location

5 pt composite

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

Sample depth

9'

Sample date

9/17/96

Sample time

12:45:00 PM

Sample Results

Benzene (ppm)

&lt;

0.0002

Total BTEX (ppm)

0.0468

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, attach sample results)

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

DATE

October 25, 1996

SIGNATURE

*Maureen Gannon*PRINTED NAME  
AND TITLE

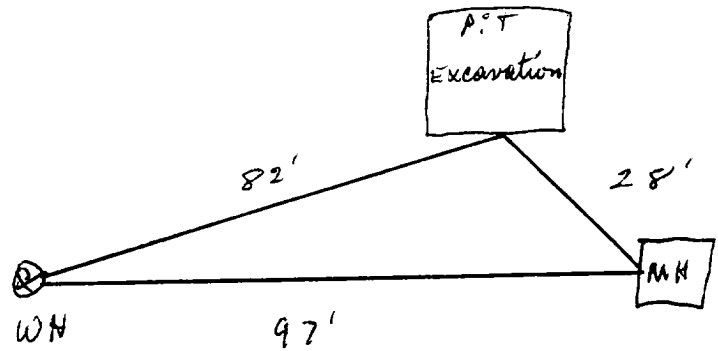
Maureen Gannon

Environmental Engineer

Mamkey #1

↑  
N

Land farm  
for  
Mamkey  
#1 Drip



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: *19-Sep-96*  
COC No.: *4885*  
Sample No. *12182*  
Job No. *2-1000*

Project Name: ***PNM Gas Services - Manley #1***  
Project Location: ***9609171245; Pit Excavation Composite Sample***  
Sampled by: *RH* Date: *17-Sep-96* Time: *12:45*  
Analyzed by: *DC/HR* Date: *19-Sep-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>
<b><i>Diesel Range Organics (C10 - C28)</i></b>	<b><i>&lt; 5.0</i></b>	<b><i>mg/kg</i></b>	<b><i>5.0</i></b>	<b><i>mg/kg</i></b>

***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>
<b><i>Diesel Range (C10 - C28)</i></b>	<b><i>&lt; 5.0</i></b>	<b><i>ppm</i></b>	<b><i>100</i></b>	<b><i>93</i></b>	<b><i>6.9</i></b>	<b><i>15%</i></b>

***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>
<b><i>Diesel Range (C10-C28)</i></b>	<b><i>91</i></b>	<b><i>81</i></b>	<b><i>(70-130)</i></b>	<b><i>8</i></b>	<b><i>20%</i></b>

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

Approved by: *[Signature]*  
Date: *9/19/96*

**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: *19-Sep-96*  
COC No.: *4885*  
Sample No.: *12182*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Manley #1*  
Project Location: *9609171245; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *17-Sep-96* Time: *12:45*  
Analyzed by: *DC* Date: *18-Sep-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>&lt;0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>7.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>&lt;0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>36.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>2.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>		<i>46.8</i>		<i>ug/kg</i>

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

Approved by: *Jack*  
Date: *9/19/96*

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