

Denny J. Frost  
District I  
P.O. Box 1000  
**DEPUTY OIL & GAS INSPECTOR**

District II  
P.O. Drawer DD, Artesia, NM 88221  
**FEB 28 1997**

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

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

**RECEIVED**  
OCT 31 1996

**OIL CON. DIV.**  
1003

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b>	PNM Gas Services ( Amoco )		<b>Telephone:</b>	324-3764	
<b>Address:</b>	603 W. Elm Street Farmington, NM 87401				
<b>Facility or Well Name:</b>	Mansfield #1A				
<b>Location:</b>	Unit: A	Sec. 19	T. 30 N	R. 9 W	County San Juan
<b>Pit Type:</b>	Separator		Dehydrator <input checked="" type="checkbox"/>		Other
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State	Fee	Other	
<b>Pit Location:</b>	Pit dimensions: length 20 width 20 depth 4				
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other				
	Footage from reference: 90'				
	Direction from reference: due Degrees East North				
	West South <input checked="" type="checkbox"/>				
<b>Depth to Ground Water:</b>	Less than 50 feet		(20 points)		0
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet		(10 points)		
	Greater than 100 feet		(0 points)		
<b>Wellhead Protection Area:</b>	Yes		(20 points)		0
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No		(0 points)		
<b>Distance to Surface Water:</b>	Less than 200 feet		(20 points)		0
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet		(10 points)		
	Greater than 1,000 feet		(0 points)		
<b>RANKING SCORE (TOTAL POINTS):</b>					0

## Date Remediation Started:

6/13/96

## Date Completed:

6/14/96

## Remediation Method:

Excavation

☒

Approx. Cubic Yard

380

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

340

Other

## Remediation Location:

Onsite

200 cu. yds

Offsite

Mansfield #2 (P&amp;A) 19-30N-9W - 140 cu. yds

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

## Backfill Material Location:

## General Description of Remedial Action:

Excavated contaminated soil to pit size 19'x30'x18' and landfarmed soil onsite/offsite 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

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

18'

Sample date

6/13/96

Sample time

1:45:00 PM

Sample Results

Benzene (ppm)

0.0403

Total BTEX (ppm)

12.6687

Field headspace (ppm)

TPH

9.40

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

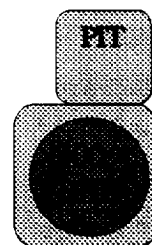
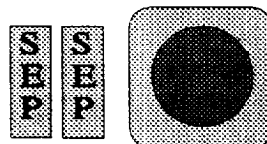
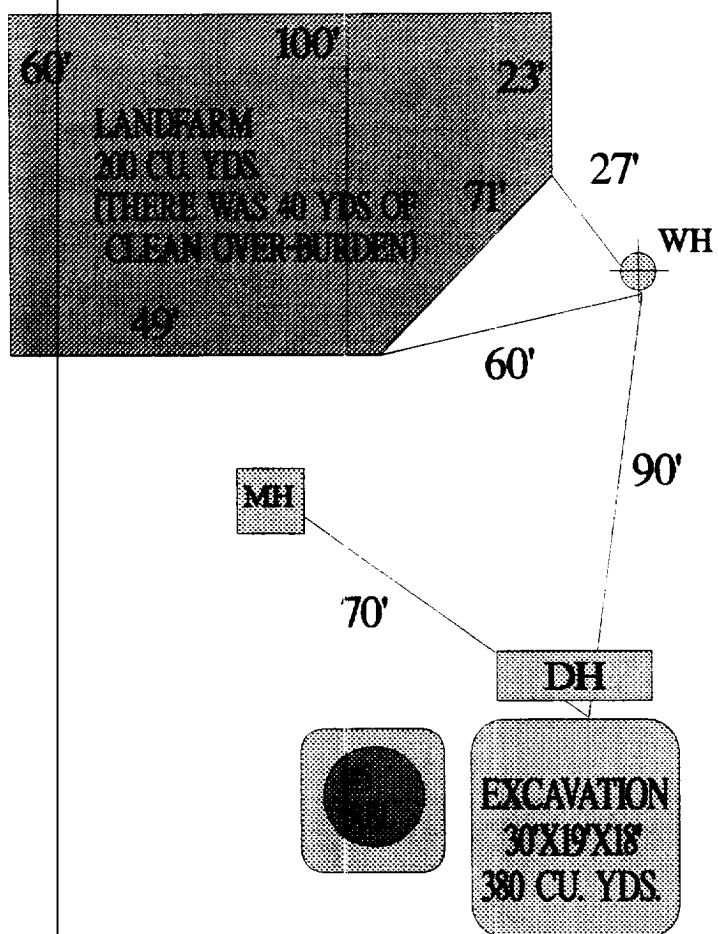
DATE

October 25, 1996

SIGNATURE

*Maureen Gannon*PRINTED NAME  
AND TITLEMaureen Gannon  
Environmental Engineer

MANSFIELD #1A EXCAVATION  
06/14/96



OFF: (505) 325-8786



LAB: (505) 325-5667

***Diesel Range Organics***

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *603 W. Elm*  
City, State: *Farmington, NM 87401*

Date: *14-Jun-96*  
COC No.: *4711*  
Sample No. *11183*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Mansfield 1A*  
Project Location: *9606131345; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *13-Jun-96* Time: *13:45*  
Analyzed by: *DC* Date: *14-Jun-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>9.4</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

***Quality Assurance Report***DRO QC No.: *0475-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>2,000</i>	<i>1,918</i>	<i>4.1</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>98</i>	<i>102</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

***Method*** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: *Ja4*Date: *6/14/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

Attn: **Denver Bearden**  
Company: **PNM Gas Services**  
Address: **603 W. Elm**  
City, State: **Farmington, NM 87401**


Date: **17-Jun-96**  
COC No.: **4711**  
Sample No. **11183**  
Job No. **2-1000**

Project Name: **PNM Gas Services - Mansfield 1A**  
Project Location: **9606131345; Pit Excavation Composite Sample**  
Sampled by: **RH** Date: **13-Jun-96** Time: **13:45**  
Analyzed by: **DC** Date: **15-Jun-96**  
Sample Matrix: **Soil**

**Aromatic Volatile Organics**

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	40.3	ug/kg	0.2	ug/kg
Toluene	174.5	ug/kg	0.2	ug/kg
Ethylbenzene	1053.7	ug/kg	0.2	ug/kg
m,p-Xylene	10982.4	ug/kg	0.2	ug/kg
o-Xylene	417.9	ug/kg	0.2	ug/kg
TOTAL		12668.7	ug/kg	

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

Approved by:   
Date: **6/17/96**

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

MANSFIELD #1A  
Amoco  
Sec. 19-30N-11W

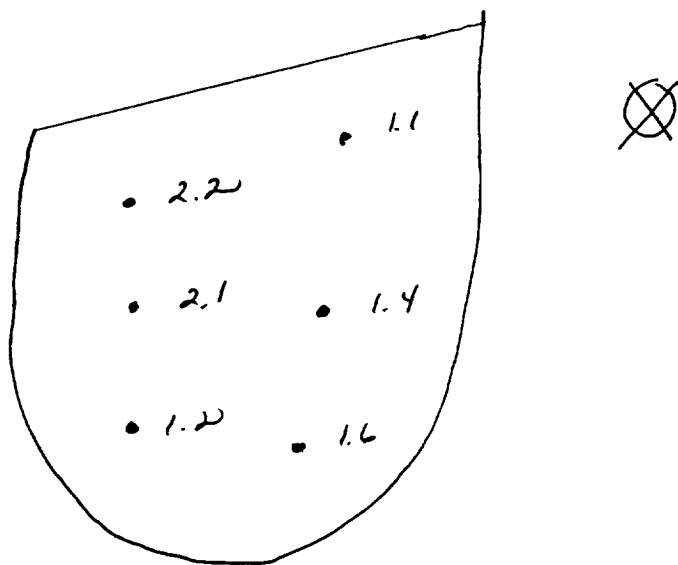
July 24, 1996

Land Farm: On Location  
200 Yards

Composite Sample #: 96 0724 1145

Soil Vapor Head-Space Reading = 13.2 ppm (PID)

Sample depths between 2" and 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: **26-Jul-96**  
COC No.: **4926**  
Sample No. **11592**  
Job No. **2-1000**

Project Name: **PNM Gas Services - Mansfield #1A Landfarm**  
Project Location: **9607241145; 6pt. Composite, 2"-12" depth**  
Sampled by: **GC** Date: **24-Jul-96** Time: **11:45**  
Analyzed by: **DC** Date: **26-Jul-96**  
Sample Matrix: **Soil**

***Laboratory Analysis***

<b>Parameter</b>	<b>Result</b>	<b>Unit of Measure</b>	<b>Detection Limit</b>	<b>Unit of Measure</b>
<b>Diesel Range Organics (C10 - C28)</b>	<b>47.4</b>	<b>mg/kg</b>	<b>5.0</b>	<b>mg/kg</b>

***Quality Assurance Report***

DRO QC No.: **0479-QC**


***Calibration Check***

<b>Parameter</b>	<b>Method Blank</b>	<b>Unit of Measure</b>	<b>True Value</b>	<b>Analyzed Value</b>	<b>% Diff</b>	<b>Limit</b>
<b>Diesel Range (C10 - C28)</b>	<b>&lt;5.0</b>	<b>ppm</b>	<b>2,000</b>	<b>1,977</b>	<b>1.1</b>	<b>15%</b>

***Matrix Spike***

<b>Parameter</b>	<b>1 - Percent Recovered</b>	<b>2 - Percent Recovered</b>	<b>Limit</b>	<b>%RSD</b>	<b>Limit</b>
<b>Diesel Range (C10-C28)</b>	<b>111</b>	<b>121</b>	<b>(70-130)</b>	<b>6</b>	<b>20%</b>

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

Approved by:   
Date: **7/26/96**