

Denny L. Faust  
District I  
P.O. Box 100  
**DEPUTY OIL & GAS INSPECTOR**

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

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

**OIL CONSERVATION DIVISION**

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**RECEIVED**  
OCT 31 1993  
OIL CON. DIV.

**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> Florance #13A			
<b>Location:</b>	Unit: I	Sec. 18	T. 30 N R. 9 W County San Juan
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <input type="checkbox"/>
<b>Pit Location:</b>	Pit dimensions: length 20 ' width 20 ' depth 4 '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
Footage from reference: 70'			
Direction from reference: 60 Degrees <input checked="" type="checkbox"/> East North <input checked="" type="checkbox"/> of <input type="checkbox"/> West South <input type="checkbox"/>			
<b>Depth to Ground Water:</b>		(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)		(10 points)	
		Greater than 100 feet ( 0 points) 0	
<b>Wellhead Protection Area:</b>		(20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		( 0 points) 0	
<b>Distance to Surface Water:</b>		(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		(10 points)	
		Greater than 1,000 feet ( 0 points) 0	
<b>RANKING SCORE (TOTAL POINTS) :</b>			0

**Date Remediation Started:** 6/18/96 **Date Completed:** 6/20/96

**Remediation Method:** Excavation X **Approx. Cubic Yard** 102  
 (Check all appropriate sections) Landfarmed X **Amount Landfarmed (cubic yds)** 102  
 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 pit size of 23'x24'x5' and landfarmed 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 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 5'  
 Sample date 6/19/96 Sample time 11:00:00 AM

**Sample Results**  
 Benzene (ppm) 0.0210  
 Total BTEX (ppm) 10.8439  
 Field headspace (ppm) \_\_\_\_\_  
 TPH 27.50 Method 8015A

Vertical Extent (ft) \_\_\_\_\_ Risk Assessment form attached Yes ☐ No ☒

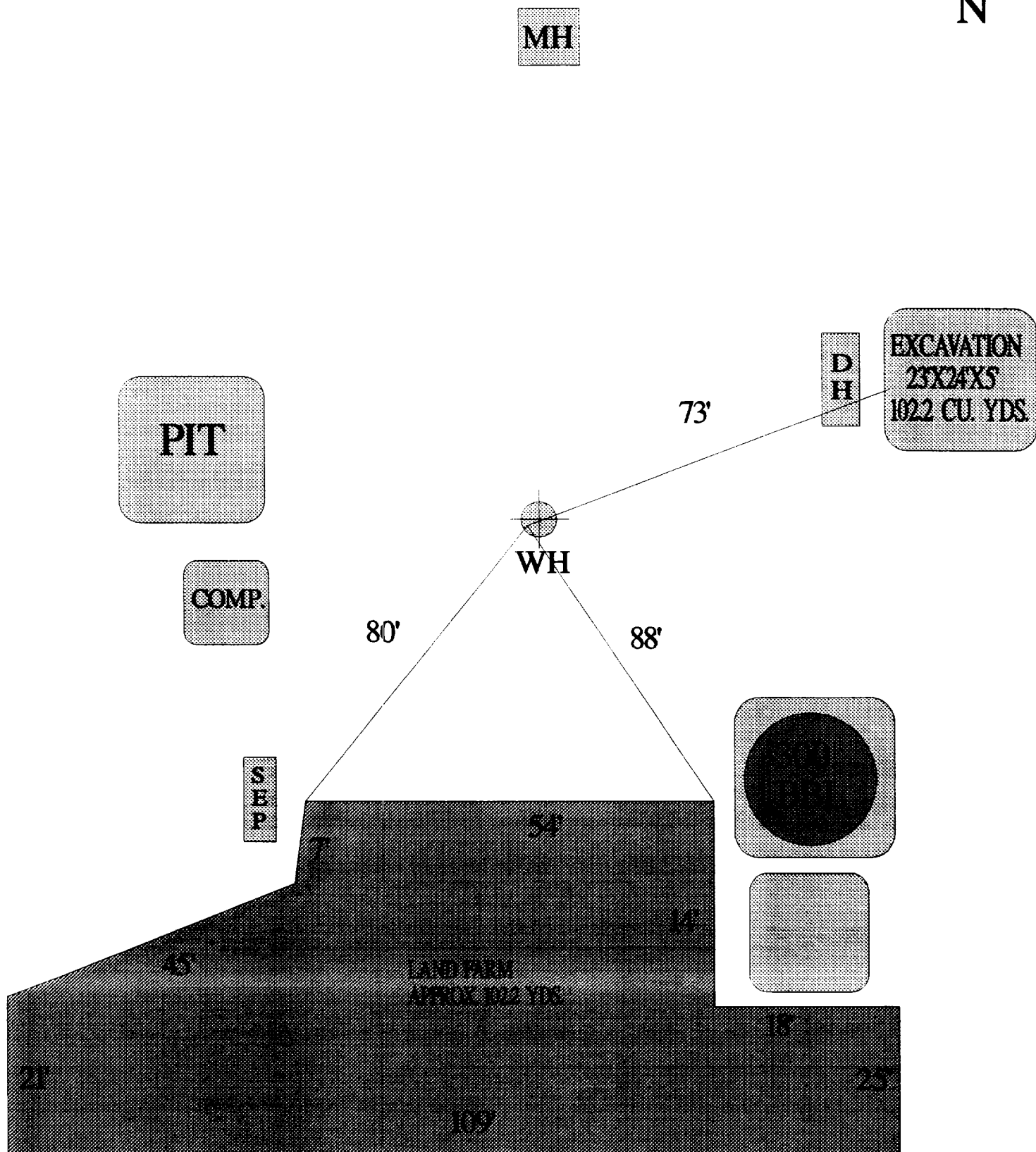
**Ground Water Sample:** Yes ☐ No ☒ (If yes, attach sample results)

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 Maureen Gannon  
 AND TITLE Environmental Engineer

FLORANCE #13A EXCAVATION  
AND LANDFARM 06/19/96



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: *21-Jun-96*  
COC No.: *4715*  
Sample No. *11240*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #13A*  
Project Location: *9606191100; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *19-Jun-96* Time: *11:00*  
Analyzed by: *DC* Date: *21-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>27.5</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>1,823</i>	<i>8.8</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>103</i>	<i>94</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: *6/21/96*

**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: *22-Jun-96*  
COC No.: *4715*  
Sample No. *11240*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #13A*  
Project Location: *9606191100; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *19-Jun-96* Time: *11:00*  
Analyzed by: *DC* Date: *21-Jun-96*  
Sample Matrix: *Soil*

#### Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i>21.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>907.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>570.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>7382.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>1962.3</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>10843.9</i>		<i>ug/kg</i>

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

Approved by: *[Signature]*  
Date: *6/22/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Florance 13A  
Amoco  
Sec. 18-30N-09W

July 30, 1996

Land Farm: On Location  
102 Yards

Composite Sample #: 9607311510

Soil Vapor Head-Space Reading = 38.2 ppm (PID)

Sample depths between 2" and 12"



8.3 •	8.1 •	3.9 •
27.3 •	3.2 •	1.5 •

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: *2-Aug-96*  
COC No.: *4942*  
Sample No. *11646*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance 13A Landfarm*  
Project Location: *9607301510; 6pt. Composite, 2"-12" depth*  
Sampled by: *GC* Date: *30-Jul-96* Time: *15:10*  
Analyzed by: *DC/HR* Date: *2-Aug-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.: 0479-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>2,221</i>	<i>11.1</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>93</i>	<i>99</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *8/2/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -