

Denny  
District I  
P.O. Box 1980 Hobbs, NM  
**DEPUTY OIL & GAS INSPECTOR**  
District III  
P.O. Drawer DD Artesia, NM 88221  
District III  
1000 Rio Brazos Rd. Aztec, NM 87410  
**FEB 28 1997**

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

**PIT REMEDIATION AND CLOSURE REPORT**

RECEIVED  
OCT 31 1996  
DEV

Operator: PNM Gas Services ( Amoco ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Florance #16  
Location: Unit: A Sec. 6 T. 30 N R. 9 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: 40  
Direction from reference: due 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: Yes (20 points)  
No (0 points) 0

(Less than 200 feet from a private  
domestic water source, or, less than 1,000  
feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)  
200 feet to 1,000 feet (10 points)  
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes,  
ponds, rivers, streams, creeks, irrigation  
canals and ditches)

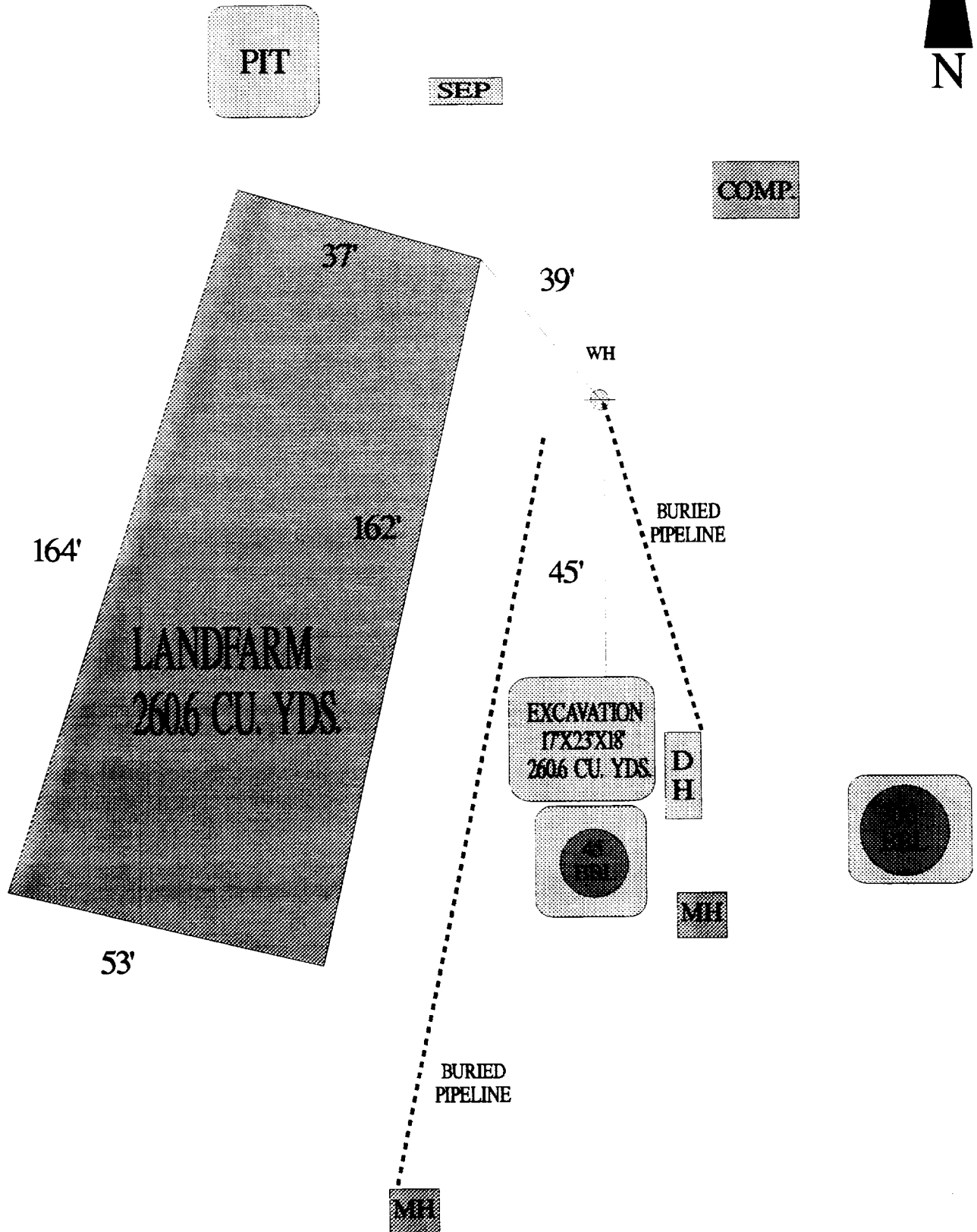
RANKING SCORE (TOTAL POINTS): 0



<b>Date Remediation Started:</b> <u>6/24/96</u>		<b>Date Completed:</b> <u>6/25/96</u>			
<b>Remediation Method:</b>  (Check all appropriate sections)	Excavation	<u>X</u>	Approx. Cubic Yard <u>261</u>		
	Landfarmed	<u>X</u>	Amount Landfarmed (cubic yds) <u>261</u>		
	Other _____				
<b>Remediation Location:</b>					
(i.e., landfarmed onsite, name and location of offsite facility)					
<b>Backfill Material Location:</b> _____					
<b>General Description of Remedial Action:</b>					
Excavated contaminated soil to pit size 23'x17'x18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.					
_____					
_____					
_____					
_____					
_____					
<b>Ground Water Encountered:</b>					
No <u><input checked="" type="checkbox"/></u>		Yes _____ Depth _____			
<b>Final Pit Closure Sampling:</b>					
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample Location <u>5 pt. composite-4 side walls and center of pit bottom</u>				
	Sample depth <u>18'</u>				
	Sample date <u>6/25/96</u>	Sample time <u>11:45:00 AM</u>			
	<b>Sample Results</b>				
	Benzene (ppm)	<u>0.0187</u>			
	Total BTEX (ppm)	<u>3.9623</u>			
	Field headspace (ppm)	_____			
	TPH <u>&lt; 5.00</u>	Method	<u>8015A</u>		
Vertical Extent (ft) _____		Risk Assessment form attached Yes <u><input type="checkbox"/></u> No <u><input checked="" type="checkbox"/></u>			
<b>Ground Water Sample:</b>		(If yes, attach sample results)			
Yes <u>-</u> No <u><input checked="" type="checkbox"/></u>					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF  <table style="width: 100%;"> <tr> <td style="width: 50%;">           DATE <u>October 25, 1996</u>            SIGNATURE <u>Maureen Gannon</u> </td> <td style="width: 50%;">           PRINTED NAME <u>Maureen Gannon</u>            AND TITLE <u>Environmental Engineer</u> </td> </tr> </table>				DATE <u>October 25, 1996</u> SIGNATURE <u>Maureen Gannon</u>	PRINTED NAME <u>Maureen Gannon</u> AND TITLE <u>Environmental Engineer</u>
DATE <u>October 25, 1996</u> SIGNATURE <u>Maureen Gannon</u>	PRINTED NAME <u>Maureen Gannon</u> AND TITLE <u>Environmental Engineer</u>				



FLORANCE #16 EXCAVATION  
06/25/96





OFF: (505) 325-5667

**ON SITE**  
**TECHNOLOGIES, LTD.**

LAB: (505) 325-1556

***Diesel Range Organics***

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

Date: *27-Jun-96*  
COC No.: *4719*  
Sample No. *11308*  
Job No. *2-1000*

Project Name: ***PNM Gas Services - Florance #16***  
Project Location: ***9606251145; Pit Excavation Composite Sample***  
Sampled by: *RH* Date: *25-Jun-96* Time: *11:45*  
Analyzed by: *DC* Date: *27-Jun-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.: *0475-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>2,000</i></b>	<b><i>1,900</i></b>	<b><i>5.0</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>103</i></b>	<b><i>94</i></b>	<b><i>(70-130)</i></b>	<b><i>6</i></b>	<b><i>20%</i></b>

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

Approved by: *[Signature]*  
Date: *6/27/96*



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: *27-Jun-96*  
COC No.: *4719*  
Sample No. *11308*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #16*  
Project Location: *9606251145; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *25-Jun-96* Time: *11:45*  
Analyzed by: *DC* Date: *27-Jun-96*  
Sample Matrix: *Soil*

**Aromatic Volatile Organics**

Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i>18.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>936.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>218.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>2777.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>11.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>3962.3</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*  
Date: *6/27/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Florance 16  
Amoco  
Sec. 06-30N-09W

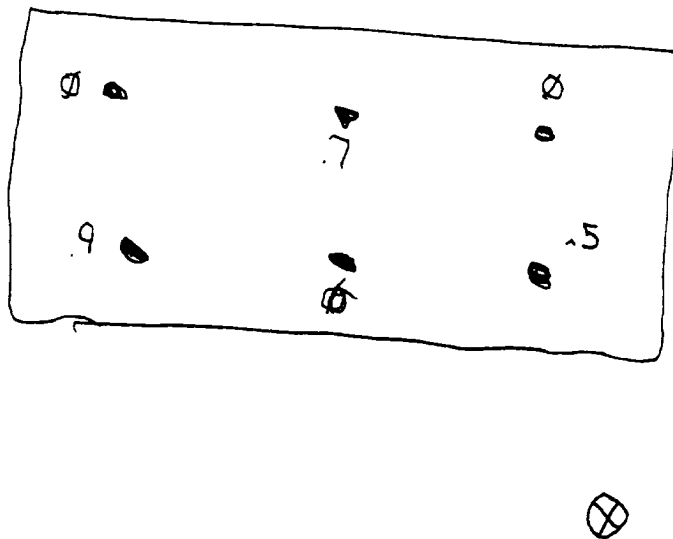
July 30, 1996

Land Farm: On Location  
160 Yards

Composite Sample #: 9607311630

Soil Vapor Head-Space Reading = 16.1 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: *2-Aug-96*  
COC No.: *4933*  
Sample No. *11641*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #16 Landfarm*  
Project Location: *9607301630; 6pt. Composite, 2-12" depth*  
Sampled by: *GC* Date: *30-Jul-96* Time: *16:30*  
Analyzed by: *DC/HR* Date: *31-Jul-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>55.6</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>1,883</i>	<i>5.8</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>109</i>	<i>99</i>	<i>(70-130)</i>	<i>7</i>	<i>20%</i>

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

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -