

District III  
P.O. Box 1000  
Santa Fe, NM 87505  
**DEPUTY OIL & GAS INSPECTOR**

District III  
1000 Rio Brazos, Santa Fe, NM 87505  
**DEPT 119 1996**

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**RECEIVED**  
JUL 30 1996  
**OIL CON. DIV.**  
BRL 3

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

### PIT REMEDIATION AND CLOSURE REPORT

<b>Operator:</b> PNM Gas Services ( SRC )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Calloway #3			
<b>Location:</b>	Unit: <u>40</u>	Sec. <u>34</u>	T. <u>31 N</u> R. <u>11 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input checked="" type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <u>No</u>
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <u>    </u>	Fee <u>    </u> Other <u>No</u>
<b>Pit Location:</b>		Pit dimensions: length <u>20</u> width <u>20</u> depth <u>3</u>	
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <u>    </u>		
Footage from reference: <u>92'</u>			
Direction from reference: <u>45</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <u>    </u>			
<u>    </u> West <u>    </u> South <u>    </u>			
<b>Depth to Ground Water:</b>		(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet	(10 points)
		50 feet to 99 feet	(0 points)
		Greater than 100 feet	<u>0</u>
<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)		Yes	(0 points)
		No	<u>0</u>
<b>Distance to Surface Water:</b>		(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet	(10 points)
		200 feet to 1,000 feet	(0 points)
		Greater than 1,000 feet	<u>0</u>
<b>RANKING SCORE (TOTAL POINTS):</b>			<u>0</u>

**Date Remediation Started:** 3/28/96 **Date Completed:** 4/1/96

**Remediation Method:** Excavation X Approx. Cubic Yard 267  
 Landfarmed X Amount Landfarmed (cubic yds) 201  
 (Check all appropriate sections) 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 20'x20'x18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil will be aerated by plowing/disking until soil meets 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 4/1/96 Sample time 9:30:00 AM

**Sample Results**

Benzene (ppm) 0.0475

Total BTEX (ppm) 2.6375

Field headspace (ppm) \_\_\_\_\_

TPH 817.00 Method 418.1

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 7-26-96

SIGNATURE Denner Bearden

PRINTED NAME  
AND TITLE

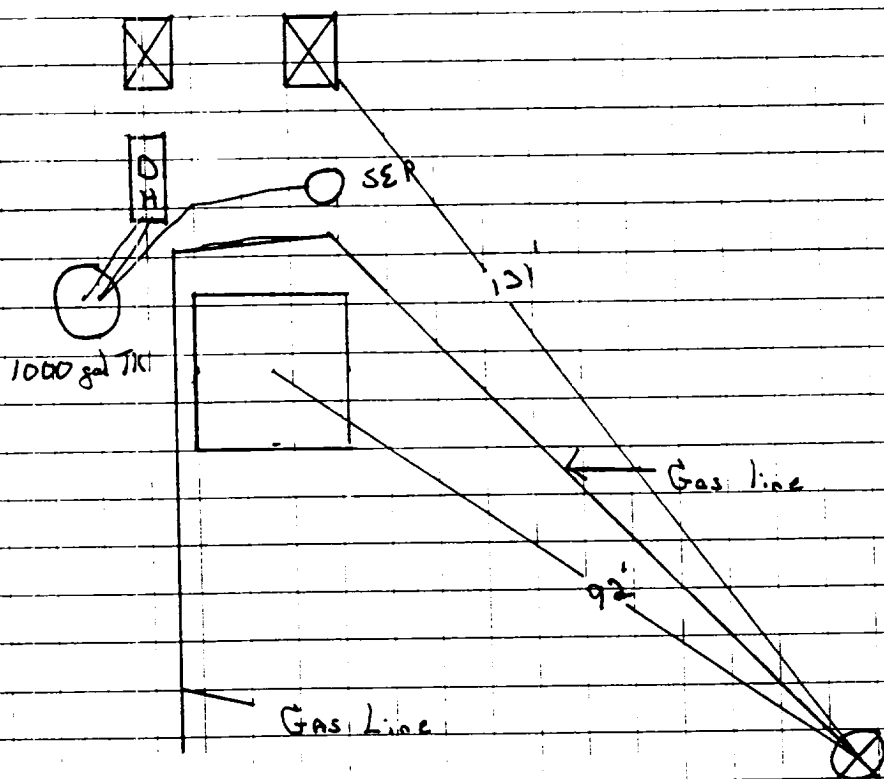
Calloway # 3

Meridian Oil

Sec. 22, T31N, R11W

920' FSL & 1460' FEL

Run # 10-71



Gas Line 2' West of pit

45° E of N

4' North of pit

3' NE corner of pit

pit before excavation = 20' X 20' X 3'

OFF: (505) 325-8786



LAB: (505) 325-5667

### **TOTAL PETROLEUM HYDROCARBONS**

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

Date: *2-Apr-96*  
COC No.: *4597*  
Sample No. *10533*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Calloway #3*  
Project Location: *9604010930; 5pt. Composite, 4 Walls & Bottom*  
Sampled by: *GC* Date: *1-Apr-96* Time: *9:30*  
Analyzed by: *HR* Date: *2-Apr-96*  
Type of Sample: *Soil*

#### **Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
<i>10533-4597</i>	<i>PNM Gas Services - Calloway #3</i> <i>9604010930; 5pt. Composite, 4 Walls &amp; Bottom</i>	<i>817 mg/kg</i>

#### **Quality Assurance Report**

<b>Laboratory Identification</b>	<b>Analyzed Value</b>	<b>Acceptable Range</b>	<b>Units of Measure</b>
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>&lt; 25</i>	<i>&lt; 25</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>887</i>	<i>828 - 1024</i>	<i>mg/kg</i>

**Method** - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*  
Date: *4/2/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

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OFF: (505) 325-8786

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

LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

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

Date: *2-Apr-96*  
COC No.: *4597*  
Sample No. *10533*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Calloway #3*  
Project Location: *9604010930; 5pt. Composite, 4 Walls & Bottom*  
Sampled by: *GC* Date: *1-Apr-96* Time: *9:30*  
Analyzed by: *DC* Date: *2-Apr-96*  
Type of Sample: *Soil*

**Aromatic Volatile Organics**

<b>Component</b>	<b>Result</b>	<b>Units of Measure</b>	<b>Detection Limit</b>	<b>Units of Measure</b>
<i>Benzene</i>	<i>47.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>603.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>116.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>1534.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>335.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>2637.5</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*

Date: *4/2/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Calloway #3

5-7-96

Meridian Oil

Sec. 22, T31 N, R11 W

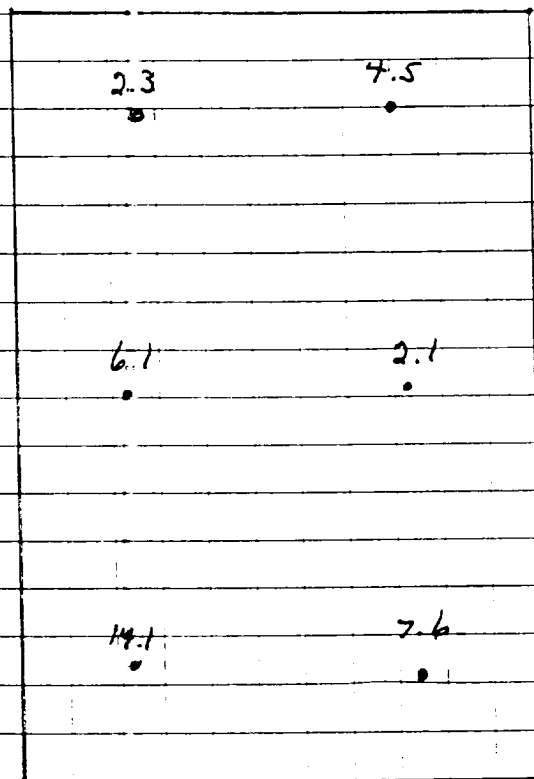
920' FSL & 1460' FEL

Run # 10-71

Land Farmed on location

Composite sample # 9605070900 (6 points.)

Soil Vapor Head-Space reading = 67.3 ppm



Sample depths  
between 2" & 12"

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: *9-May-96*  
COC No.: *4636*  
Sample No. *10845*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Calloway #3 Land Farm*  
Project Location: *9605080900; 6pt. Composite, 2"-12" deep*  
Sampled by: *GC* Date: *8-May-96* Time: *9:00*  
Analyzed by: *DC* Date: *9-May-96*  
Sample Matrix: *Soil*

*Laboratory Analysis*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>15.9</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

*Quality Assurance Report*

*DRO QC No.: 0475-QC*

*Calibration Check*

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<i>Diesel Range (C10 - C28)</i>	<i>&lt; 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,820</i>	<i>9.0</i>	<i>15%</i>

*Matrix Spike*

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<i>Diesel Range (C10-C28)</i>	<i>96</i>	<i>98</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *5/9/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -