

District I
P.O. Box 19800, Albuquerque, NM

District II
P.O. Drawer DD, Artesia, NM 88220

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

Denny R. Foust
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

JUL 1 8 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: PNM Gas Services (Burlington Resources) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Federal A #2

Location: Unit: G Sec. 25 T. 30 N R. 13 W County San Juan

Pit Type: Separator Dehydrator ✓ Other

Land Type: BLM ✓ State Fee Other

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ✓ other

Footage from reference: 188'

Direction from reference: 64 Degrees East North

✓ West of South ✓

Depth to Ground Water:

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Wellhead Protection Area:

Yes	(20 points)	
No	(0 points)	<u>0</u>

(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)	<u>0</u>

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

RANKING SCORE (TOTAL POINTS): 0

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DIST. 3

Date Remediation Started:		<u>11/21/96</u>		Date Completed:		<u>11/21/96</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>x</u>	Approx. Cubic Yard		<u>104</u>		
	Landfarmed	<u>x</u>	Amount Landfarmed (cubic yds)		<u>104</u>		
	Other	<u></u>					
Remediation Location:		Onsite	<u>x</u>	Offsite	<u></u>		
(i.e., landfarmed onsite, name and location of offsite facility)							
Backfill Material Location: <u></u>							
General Description of Remedial Action:							
<u>Excavated contaminated soil to pit size of 27'X13'X8' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.</u>							
<u></u>							
<u></u>							
<u></u>							
<u></u>							
<u></u>							
Ground Water Encountered:							
No		<u>✓</u>	Yes		<u></u>		
			Depth		<u></u>		

Final Pit Closure Sampling: (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>8'</u>					
	Sample date	<u>11/21/96</u>		Sample time	<u>10:45:00 AM</u>		
	Sample Results						
	Benzene (ppm)		<u>0.0535</u>				
Total BTEX (ppm)		<u>47.0622</u>					
Field headspace (ppm)		<u></u>					
TPH		<u>823.80</u>		Method	<u>8015A</u>		
Vertical Extent (ft)		<u></u>		Risk Assessment form attached	Yes	No	<u>✓</u>
Ground Water Sample:		Yes	<u></u>	No	<u>✓</u>	(If yes, see attached Groundwater Site Summary Report)	

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

DATE April 28, 1997

SIGNATURE

Denver Bearden

PRINTED NAME
AND TITLE

Denver Bearden
Administrator III

1
N

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: *22-Nov-96*
COC No.: *5139*
Sample No. *13005*
Job No. *2-1000*

Project Name: *PNM Gas Services - Federal A #2*
Project Location: *9611211045; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *21-Nov-96* Time: *10:45*
Analyzed by: *DC/HR* Date: *22-Nov-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>823.8</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0512-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><5.0</i>	<i>ppm</i>	<i>100</i>	<i>107</i>	<i>7.3</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>107</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by: 
Date: *11/25/96*

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: *25-Nov-96*
COC No.: *5139*
Sample No. *13005*
Job No. *2-1000*

Project Name: *PNM Gas Services - Federal A #2*
Project Location: *9611211045; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *21-Nov-96* Time: *10:45*
Analyzed by: *DC* Date: *23-Nov-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>Benzene</i>	<i>53.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>2672.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>3766.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>31417.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>9152.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>47062.2</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*
Date: *11/25/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1-6-97

Federal A#2

Meridian Oil

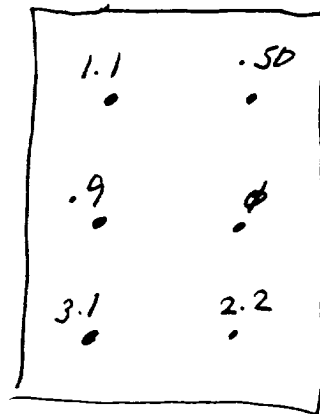
Sec. 25, 30N, 13W

Land Farm: On location

composite sample # 97D1061200

soil vapor headspace PID reading = 15.4 ppm

⊗



2"-12" depth

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: *8-Jan-97*
COC No.: *5861*
Sample No. *13324*
Job No. *2-1000*

Project Name: *PNM Gas Services - Federal A #2 Landfarm*
Project Location: *9701061200; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *6-Jan-97* Time: *12:00*
Analyzed by: *HR* Date: *6-Jan-97*
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><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0512-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><5.0</i>	<i>ppm</i>	<i>100</i>	<i>101</i>	<i>1.4</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>100</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by: 
Date: *1/8/97*