

District I  
P.O. Box 1980, Hobbs, NM

District II  
Drawer DD, Artesia, NM 88221

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 S. Faust*  
**DEPUTY OIL & GAS INSPECTOR**

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

OCT 28 1997

## PIT REMEDIATION AND CLOSURE REPORT

*Approved*

Operator: PNM Gas Services (Caulkins) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Breach B #220M

Location: Unit E Sec 14 T 26 N R 7 W County Rio Arriba

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: 98'

Direction from reference: 57 Degrees ☐ East ☒ North ☐ South ☒ West

### Depth to Ground Water:

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

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

### Wellhead Protection Area:

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

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

### Distance to Surface Water:

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

Less than 200 feet	(20 points)	
200 feet to 1,000 feet	(10 points)	
Greater than 1,000 feet	(0 points)	<u>0</u>

**RANKING SCORE (TOTAL POINTS):** 10

**RECEIVED**  
JUL 31 1997  
**OIL CON. DIV.**  
**DIST. 3**

Breach B #220M

Date Remediation Started: 6/17/97

Date Completed: 6/18/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 90

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 90

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_

Offsite Breach B #217 14-26N-7W-D

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

Backfill Material Location: \_\_\_\_\_

## General Description of Remedial Action:

Excavated contaminated soil to a pit size of 13' x 17' x 11' and landfarmed soil offsite at Breach B #217 within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered:

No



Yes

Depth \_\_\_\_\_

## Final Pit Closure Sampling:

Sample Location Bottom of excavation.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 11'

Sample date 6/17/97

Sample time 2:45:00 PM

## Sample Results

Benzene (ppm) 0.0170

Total BTEX (ppm) 2.5050

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

TPH 51.00

Method 8015A

Vertical Extent (ft) \_\_\_\_\_

Risk Assessment form attached

Yes

No



Ground Water Sample:

Yes

No



(If yes, see attached Groundwater Site Summary Report)

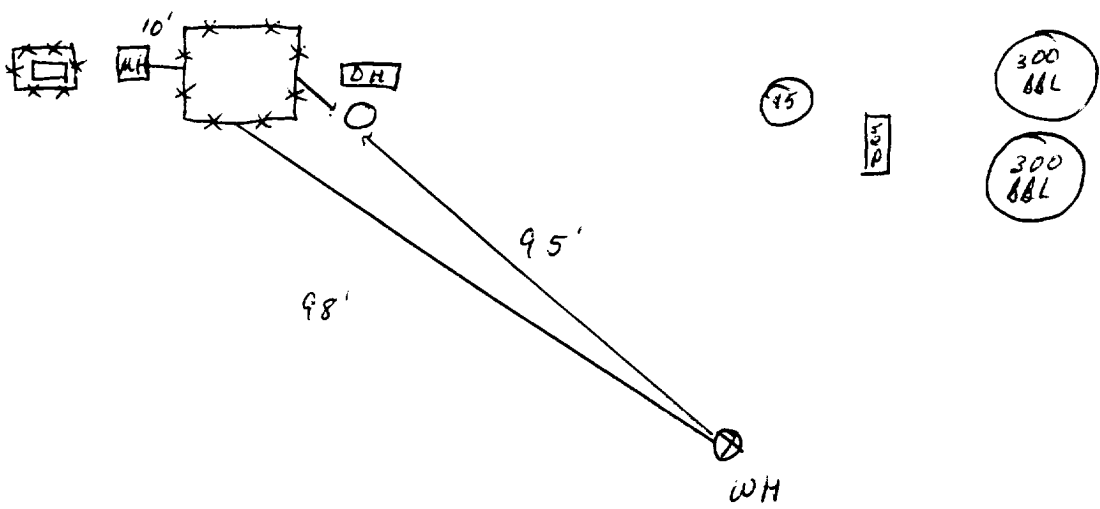
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE July 28, 1997

SIGNATURE

PRINTED NAME  
AND TITLEDenver Bearden  
Administrator III

✓  
Borehole B 220M  
98' from wellhead  
57° W of N  
00M @ 4'-444 PPM



OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *20-Jun-97*  
COC No.: *5168*  
Sample No.: *14975*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B 220 M*  
Project Location: *9706171445; Pit Excavation Bottom Composite*  
Sampled by: *RH* Date: *17-Jun-97* Time: *14:45*  
Analyzed by: *DC/HR* Date: *20-Jun-97*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>51</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

#### Quality Assurance Report

DRO QC No.: 0548-STD

##### Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>190</i>	<i>5.2</i>	<i>15%</i>

##### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>86</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:

Date:

*[Signature]*  
*6/20/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

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

Date: *20-Jun-97*  
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Project Location: *9706171445; Pit Excavation Bottom Composite*  
Sampled by: *RH* Date: *17-Jun-97* Time: *14:45*  
Analyzed by: *HR* Date: *19-Jun-97*  
Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>17</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>204</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>115</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>1847</i>	<i>ug/kg</i>	<i>50</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>322</i>	<i>ug/kg</i>	<i>50</i>	<i>ug/kg</i>
<i>TOTAL</i>		<i>2505</i>		<i>ug/kg</i>

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*  
Date: *6/20/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *20-Jun-97*  
COC No.: *5169*  
Sample No.: *14976*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B 220 M*  
Project Location: *9706171530; Excavation Wall Composite*  
Sampled by: *RH* Date: *17-Jun-97* Time: *15:30*  
Analyzed by: *DC/HR* Date: *20-Jun-97*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>54</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

#### Quality Assurance Report

DRO QC No.: 0548-STD

#### Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>190</i>	<i>5.2</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>88</i>	<i>95</i>	<i>(70-130)</i>	<i>9</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *6/20/97*

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### ANALYTICAL REPORT

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

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COC No.: *5169*  
Sample No.: *14976*  
Job No.: *2-1000*


Project Name: *PNM Gas Services - Breech B 220 M*  
Project Location: *9706171530; Excavation Wall Composite*  
Sampled by: *RH* Date: *17-Jun-97* Time: *15:30*  
Analyzed by: *HR* Date: *18-Jun-97*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	50	ug/kg
<i>Toluene</i>	1022	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	277	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	2681	ug/kg	50	ug/kg
<i>o-Xylene</i>	342	ug/kg	50	ug/kg
	<i>TOTAL</i>	4322	ug/kg	

ND - Not Detected at Limit of Quantitation

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

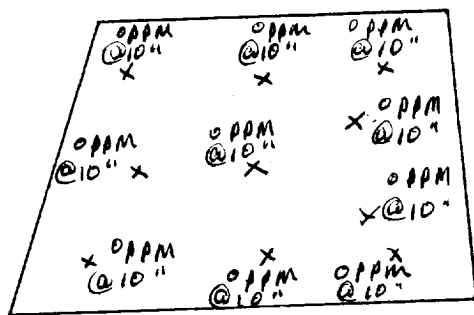
Approved by:   
Date: *6/19/97*

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TELEPHONE: (505) 325-5667 FAX: (505) 325-1556

↑  
N

See attached lab results for BTEX.



WH ⊗

Breech 8220 M (on Breech 8217)  
7-7-97  
@ 0930



OFF: (505) 325-5667



LAB: (505) 325-1556

### *ANALYTICAL REPORT*

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

Date: *17-Jul-97*  
COC No.: *5188*  
Sample No.: *15257*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B 220M Landfarm*

Project Location: *9707070930; 10pt. Composite*

Sampled by: *RH* Date: *7-Jul-97* Time: *9:30*

Analyzed by: *DC* Date: *16-Jul-97*

Sample Matrix: *Soil*

### *Laboratory Analysis*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	182	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

### *Quality Assurance Report*

DRO QC No.: 0548-STD

### *Continuing Calibration Verification*

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	183	8.7	15%

### *Matrix Spike*

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	120	108	(70-130)	10	20%

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

Approved by:

Date:

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LAB: (505) 325-1556

## ANALYTICAL REPORT

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *603 W. Elm*  
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Job No.: *2-1000*

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Project Location: ***9707070930; 10pt. Composite***

Sampled by: *RH* Date: *7-Jul-97* Time: *9:30*

Analyzed by: *DC* Date: *16-Jul-97*

Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	8	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	5	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	22	ug/kg	1	ug/kg
<i>o-Xylene</i>	18	ug/kg	1	ug/kg
	<i>TOTAL</i>	54		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*  
Date: *7/17/97*

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