

Denny E. Faust  
DEPUTY OIL & GAS INSPECTOR  
JUL 22 1998  
District I  
P.O. Box 1980, Hobbs, NM 88241  
District II  
P.O. Drawer DD, Artesia, NM 88221  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

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

RECEIVED  
JUL 22 1998  
OIL CON. DIV.  
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Williams) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Breech B #217 Drip  
Location: Unit D Sec 14 T 26 N R 7 W County Rio Arriba  
Pit Type: Separator Dehydrator Other Drip  
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 20 width 20 depth 3  
(Attach diagram) Reference: wellhead ☒ other ☐  
Footage from reference: 210'  
Direction from reference: 70 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) 10

(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): 10

Breach B #217 Drip

Date Remediation Started: 6/19/97 Date Completed: 6/20/97

Remediation Method: Excavation X Approx. Cubic Yard 250

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 250

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 a pit size of 22' X 17' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

\*\*\* Conducted vertical extent drilling to 40'. Lab analysis of bottom hole sample showed results to be below regulatory guidelines.

Ground Water Encountered: No ☒ Yes ☐ Depth \_\_\_\_\_

**Final Pit Closure Sampling:**

Sample Location 40' during vertical extent determination.

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

Sample depth 40'

Sample date 11/11/97 Sample time 8:30:00 AM

**Sample Results**

Benzene (ppm) 0.0390

Total BTEX (ppm) \*\*\* 0.6090

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

TPH (ppm) < 5.00 Method 8015A

Vertical Extent (ft) 40' Risk Analysis 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 April 29, 1998

SIGNATURE Maureen L Gannon

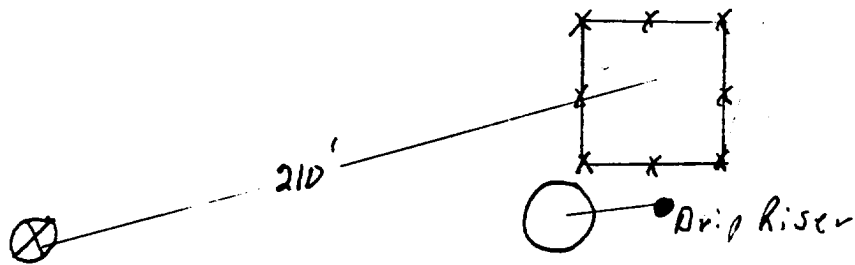
PRINTED NAME **Maureen Gannon.**  
AND TITLE **Project Manager**

*by Kathy Guck*

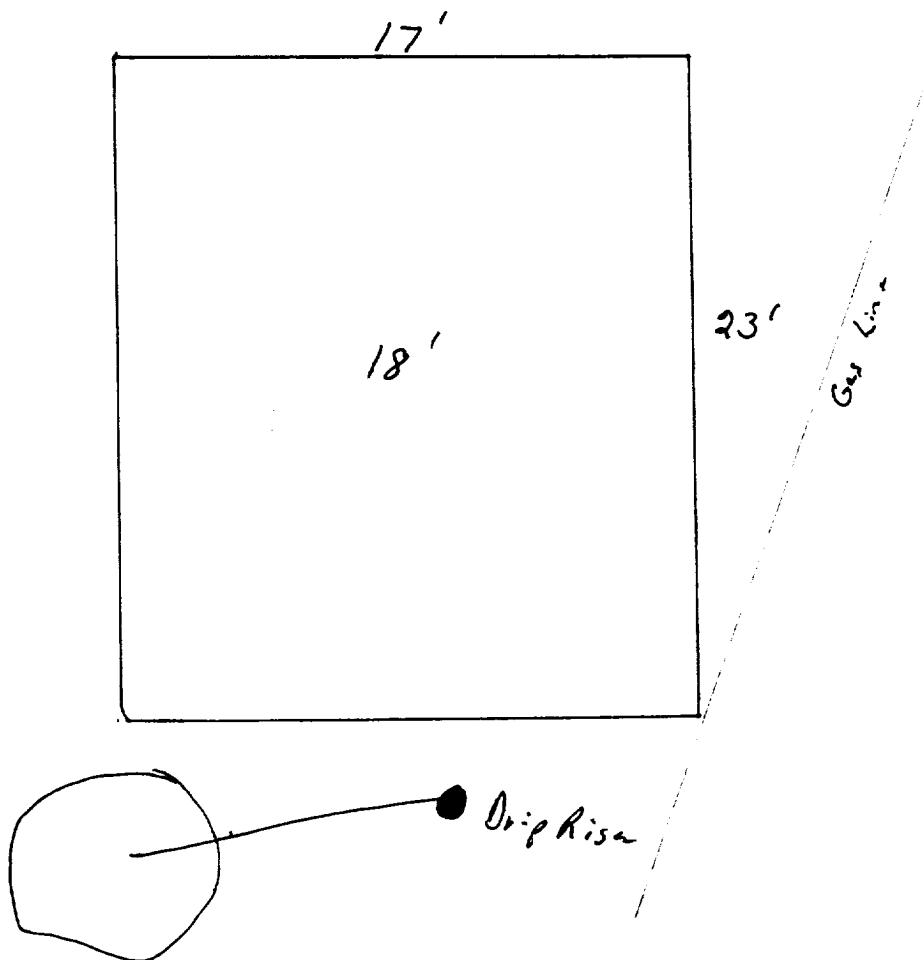
Breach B # 217 Drip  
WFS  
Sec. 14, 26N, 7W, D

6/19/97

start of excavation:



End of excavation:



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: *25-Jun-97*  
COC No.: *5908*  
Sample No.: *15029*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip*  
Project Location: *9706191000; Bottom, 18'*  
Sampled by: *GC* Date: *19-Jun-97* Time: *10:00*  
Analyzed by: *DC/HR* Date: *24-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>37</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>194</i>	<i>2.8</i>	<i>15%</i>

#### Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>96</i>	<i>97</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: *[Signature]*  
Date: *6/25/97*

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: *25-Jun-97*  
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Sample No.: *15029*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip*

Project Location: *9706191000; Bottom, 18'*

Sampled by: *GC* Date: *19-Jun-97* Time: *10:00*

Analyzed by: *HR* Date: *24-Jun-97*

Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>1508</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>40761</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>5156</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>60490</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>14241</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>122157</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: *6/25/97*

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: *25-Jun-97*  
COC No.: *5908*  
Sample No.: *15030*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip*

Project Location: *9706191100; 4 Walls, 16'*

Sampled by: *GC* Date: *19-Jun-97* Time: *11:00*

Analyzed by: *DC/HR* Date: *24-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>37</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>194</i>	<i>2.8</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>96</i>	<i>97</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: *[Signature]*  
Date: *6/25/97*

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: *25-Jun-97*  
COC No.: *5908*  
Sample No.: *15030*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip*

Project Location: *9706191100; 4 Walls, 16'*

Sampled by: *GC* Date: *19-Jun-97* Time: *11:00*

Analyzed by: *HR* Date: *23-Jun-97*

Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	119	ug/kg	50	ug/kg
<i>Toluene</i>	1858	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	412	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	6042	ug/kg	50	ug/kg
<i>o-Xylene</i>	1416	ug/kg	50	ug/kg
	<i>TOTAL</i>	9847	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: *6/25/97*

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: *24-Nov-97*  
COC No.: *5829*  
Sample No.: *16825*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip*  
Project Location: *9711110830; Vertical Extent, 40' depth*  
Sampled by: *GC* Date: *11-Nov-97* Time: *8:30*  
Analyzed by: *DC/HR* Date: *18-Nov-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>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

#### Quality Assurance Report

DRO QC No.: 0555-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	201	0.7	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	110	113	(70-130)	2	20%

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

Approved by: *[Signature]*  
Date: *11/24/97*



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: *17-Nov-97*  
COC No.: *5829*  
Sample No.: *16825*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech B #217 Drip***

Project Location: ***9711110830; Vertical Extent, 40' depth***

Sampled by: GC Date: *11-Nov-97* Time: *8:30*

Analyzed by: DC Date: *14-Nov-97*


Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	39	ug/kg	1	ug/kg
<i>Toluene</i>	226	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	27	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	261	ug/kg	1	ug/kg
<i>o-Xylene</i>	57	ug/kg	1	ug/kg
	<i>TOTAL</i>	609	ug/kg	

ND - Not Detected at Limit of Quantitation

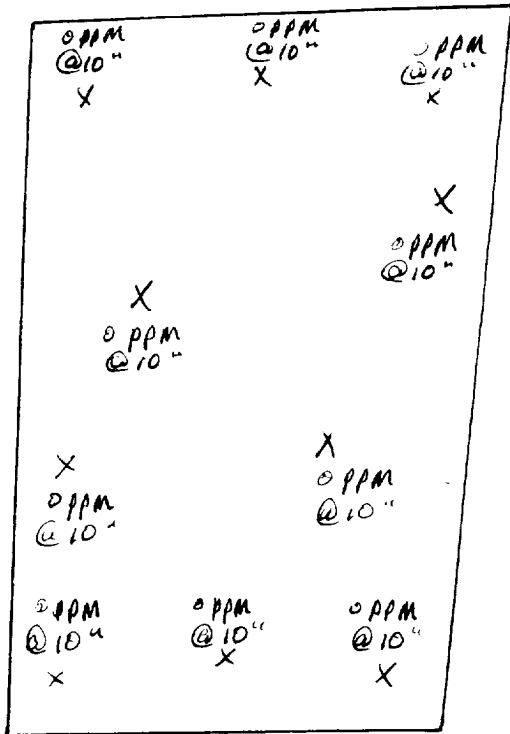
**Method** - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by:   
Date: *11/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

↑  
N



2  
WH

Breach B #217 Drip

7-7-47

@ 0955

See analysis for BTEX.

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.: *5190*  
Sample No.: *15259*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip Landfarm*  
Project Location: *9707070955; 10pt. Composite*  
Sampled by: *RH* Date: *7-Jul-97* Time: *9:55*  
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>	13	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: *JAC*  
Date: *7/17/97*

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: *17-Jul-97*  
COC No.: *5190*  
Sample No.: *15259*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #217 Drip Landfarm*  
Project Location: *9707070955; 10pt. Composite*  
Sampled by: *RH* Date: *7-Jul-97* Time: *9:55*  
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>	10	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	23	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	55	ug/kg	1	ug/kg
<i>o-Xylene</i>	29	ug/kg	1	ug/kg
	<i>TOTAL</i>	117		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*