

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

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

*Denny E. Faust*  
**DEPUTY OIL & GAS INSPECTOR**

**FEB 26 1998**

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

*Approved* **PIT REMEDIATION AND CLOSURE REPORT**

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

**Address:** 603 W. Elm Street Farmington, NM 87401

**Facility or Well Name:** Breach E #117

**Location:** Unit M Sec 1 T 26 N R 6 W County Rio Arriba

**Pit Type:** Separator ☒ Dehydrator ☐ Other ☐

**Land Type:** BLM ☒ State ☐ Fee ☐ Other ☐ No ☐

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

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 50'

Direction from reference: 80 Degrees ☐ East ☐ North ☐  
☒ 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)	<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

Breach E #117

Date Remediation Started: 9/5/97

Date Completed: 9/5/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 32

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 32

Other

Remediation Location:

Onsite ☒

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 12' X 12' X 6' 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.

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

3' walls and 6' bottom.

Sample date

9/5/97

Sample time

11:30:00 AM

Sample Results

Benzene (ppm) &lt; 0.0020

Total BTEX (ppm) 0.0390

Field headspace (ppm)

TPH (ppm)

&lt; 5.00

Method

8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

No

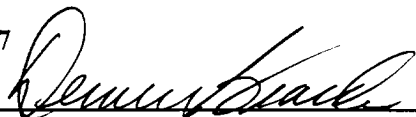
☒

(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 October 27, 1997

SIGNATURE

PRINTED NAME  
AND TITLEDenver Bearden  
Administrator III

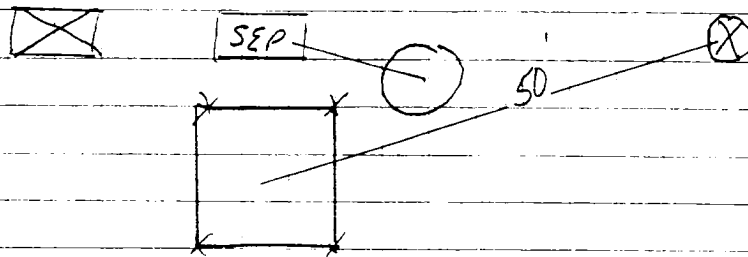
Breach E #117

9/5/97

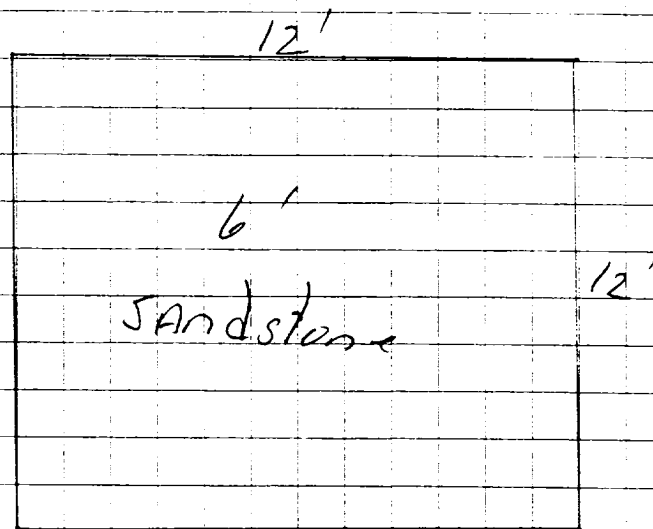
Can/Kin O:1

Sec. 1, 26N, 6W, m

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: *10-Sep-97*  
COC No.: *5998*  
Sample No.: *16083*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #117*  
Project Location: *9709051130; Composite, 4 Walls @ 3' and Bottom @ 6'*  
Sampled by: *GC* Date: *5-Sep-97* Time: *11:30*  
Analyzed by: *DC/HR* Date: *9-Sep-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	190	5.1	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	82	77	(70-130)	6	20%

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

Approved by: *DC*  
Date: *9/10/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNICAL BLENDING INDUSTRIES 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: *9-Sep-97*  
COC No.: *5998*  
Sample No.: *16083*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #117*  
Project Location: *9709051130; Composite, 4 Walls @ 3' and Bottom @ 6'*  
Sampled by: *GC* Date: *5-Sep-97* Time: *11:30*  
Analyzed by: *DC* Date: *8-Sep-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	2	ug/kg
<i>Toluene</i>	ND	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	4	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	23	ug/kg	2	ug/kg
<i>o-Xylene</i>	12	ug/kg	2	ug/kg
	<i>TOTAL</i>	39		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: *9/9/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

↑  
N

9-24-97 @ 0930

Breach E #117

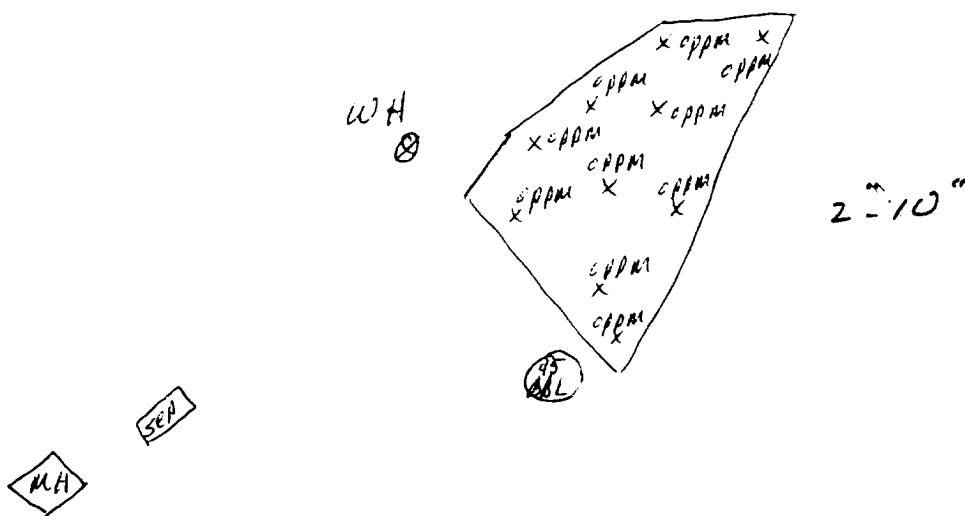
Caulkins

(N) 1-260-6W

Rio Arriba

Sample # 9709240930

Land farm field head space 0 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: *30-Sep-97*  
COC No.: *5674*  
Sample No.: *16314*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech E #117 Landfarm***  
Project Location: ***9709240930; Composite***  
Sampled by: *RH* Date: *24-Sep-97* Time: *9:30*  
Analyzed by: *HR/DC* Date: *29-Sep-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>17</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.: 0555-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>182</i>	<i>9.4</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>98</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: *9/30/97*

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- TECHNOLOGY - BLENDING INDUSTRY WITH THE ENVIRONMENT -