

District I
P.O. Box 1000, Farmington, NM 87401
District II
P.O. Box 1000, Farmington, NM 87401
District III
1000 Rio Brazos Rd., Farmington, NM 87401

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

FEB 26 1998

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 D #237				
Location:	Unit	D	Sec	15	T 26 N R 6 W County Rio Arriba
Pit Type:	Separator	<input checked="" type="checkbox"/>	Dehydrator	<input type="checkbox"/>	Other <input type="checkbox"/>
Land Type:	BLM	<input checked="" type="checkbox"/>	State	<input type="checkbox"/>	Fee <input type="checkbox"/> Other <input type="checkbox"/> No <input type="checkbox"/>
Pit Location:	Pit dimensions: length 18 width 18 depth 3				
(Attach diagram)	Reference:	wellhead <input checked="" type="checkbox"/>	other <input type="checkbox"/>		
	Footage from reference:	110'			
	Direction from reference:	45 Degrees	<input type="checkbox"/> East	North <input type="checkbox"/>	
			<input checked="" type="checkbox"/> West	South <input checked="" type="checkbox"/>	
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)			0
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)			0
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)			0
RANKING SCORE (TOTAL POINTS):					0

RECEIVED
NOV - 3 1997
OIL CON. DIV.
DIST. 3

Breach D #237

Date Remediation Started: 8/9/97

Date Completed: 8/9/97

Remediation Method:

Excavation

☒

Approx. Cubic Yard

249

(Check all
appropriate
sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

249

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 21' X 16' X 20' 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

20'

Sample date

8/9/97

Sample time

1:10:00 PM

Sample Results

Benzene (ppm) < 0.0050

Total BTEX (ppm) 1.4750

Field headspace (ppm)

TPH (ppm)

41.00

Method

8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

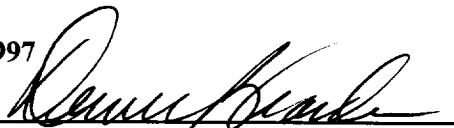
No

☒(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

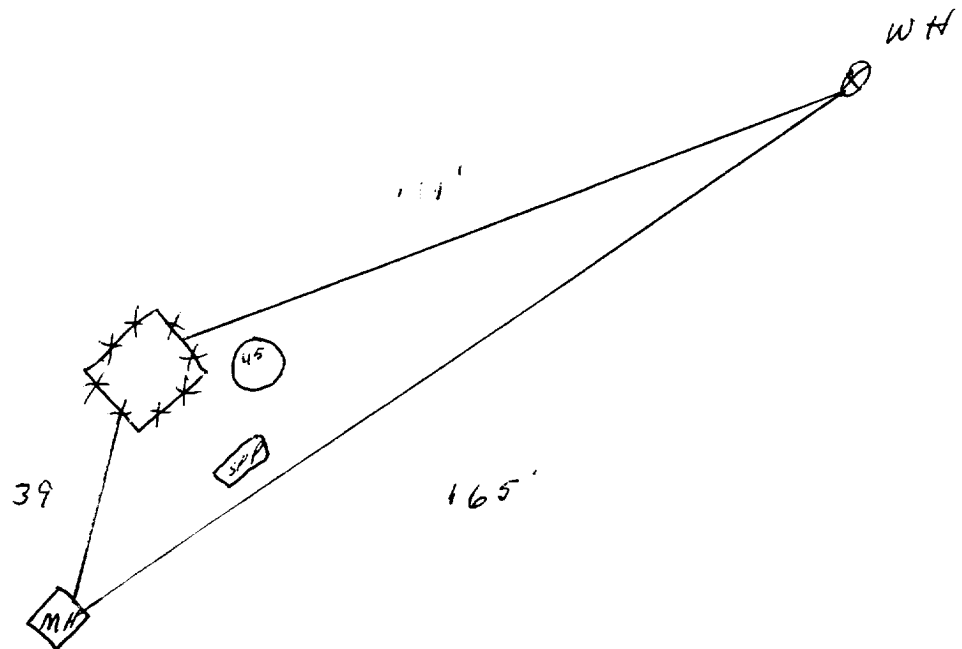
DATE October 27, 1997

SIGNATURE

PRINTED NAME
AND TITLEDenver Bearden
Administrator III

22

iii' from W.H.



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: *15-Aug-97*
COC No.: *5197*
Sample No.: *15732*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #L37*
Project Location: *9708091310; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *9-Aug-97* Time: *13:10*
Analyzed by: *HR/DC* Date: *14-Aug-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>41</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>213</i>	<i>6.3</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>82</i>	<i>88</i>	<i>(70-130)</i>	<i>7</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *8/15/97*

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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: 18-Aug-97
COC No.: 5197
Sample No.: 15732
Job No.: 2-1000

Project Name: *PNM Gas Services - Breech D #237*
Project Location: *9708091310; Pit Excavation Composite Sample*
Sampled by: RH Date: 9-Aug-97 Time: 13:10
Analyzed by: DC Date: 13-Aug-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	5	ug/kg
<i>Toluene</i>	102	ug/kg	5	ug/kg
<i>Ethylbenzene</i>	102	ug/kg	5	ug/kg
<i>m,p-Xylene</i>	978	ug/kg	5	ug/kg
<i>o-Xylene</i>	293	ug/kg	5	ug/kg
	<i>TOTAL</i>	1475	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: 8/18/97

↑
N

8-28-47 - @ 1035

Brush D # 237

Daulkins

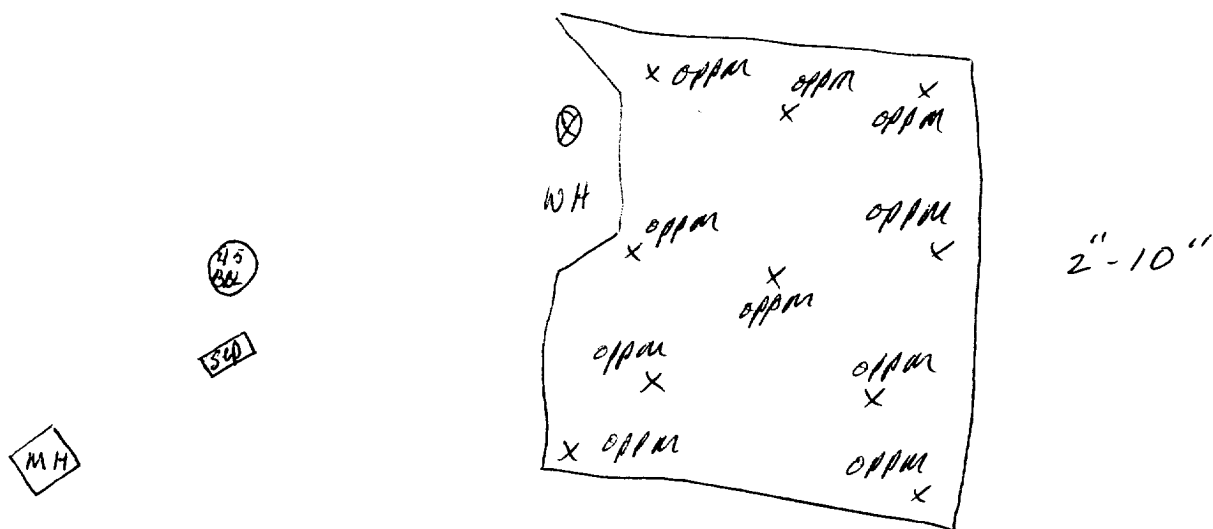
(D) 15-26N-6W

Rio Arriba

Sample # - 4708281035

Land farm field head space - oppm

See lab 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: *4-Sep-97*
COC No.: *5978*
Sample No.: *15995*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #237 Landfarm*
Project Location: *9708281035; Composite Sample*
Sampled by: *RH* Date: *28-Aug-97* Time: *10:35*
Analyzed by: *DC/HR* Date: *3-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>14</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>204</i>	<i>2.0</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>71</i>	<i>74</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *9/4/97*

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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: *2-Sep-97*
COC No.: *5978*
Sample No.: *15995*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #237 Landfarm*

Project Location: *9708281035; Composite Sample*

Sampled by: *RH* Date: *28-Aug-97* Time: *10:35*

Analyzed by: *HR* Date: *1-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	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	ND		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: *9/2/97*

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