

District III  
1000 Rio Brazos Rd., Aztec, NM 87810

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

# PIT REMEDIATION AND CLOSURE REPORT

<b>Operator:</b>	<u>PNM Gas Services - Caulkins</u>		<b>Telephone:</b>	<u>324-3764</u>						
<b>Address:</b>	<u>603 W. Elm Street Farmington, NM 87401</u>									
<b>Facility or Well Name:</b>	<u>Breach A #204M</u>									
<b>Location:</b>	Unit	<u>E</u>	Sec	<u>9</u>	T	<u>26 N</u>	R	<u>6 W</u>	County	<u>Rio Arriba</u>
<b>Pit Type:</b>	Separator _____		Dehydrator _____		Other _____		<u>Manual drip blowdown.</u>			
<b>Land Type:</b>	BLM	<input checked="" type="checkbox"/>	State	_____	Fee	_____	Other		_____	
<b>Pit Location:</b>	Pit dimensions:		length	<u>20</u>	width	<u>20</u>	depth	<u>4</u>		
(Attach diagram)	Reference:	wellhead <input checked="" type="checkbox"/>		other		_____				
	Footage from reference:		<u>103'</u>							
	Direction from reference:		<u>68</u>	Degrees	<input checked="" type="checkbox"/> East	North <input checked="" type="checkbox"/>				
					<input type="checkbox"/> West	of South <input type="checkbox"/>				
<b>Depth to Ground Water:</b>	(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) ( 0 points)		<u>0</u>			
<b>Wellhead Protection Area:</b>	(Less than 200 feet from a private domestic water source; or, less than 1,000 feet from all other water sources)		Yes No		(20 points) ( 0 points)		<u>0</u>			
<b>Distance to Surface Water:</b>	(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) ( 0 points)		<u>0</u>			
<b>RANKING SCORE (TOTAL POINTS) :</b>							<u>0</u>			

Breach A #204M

Date Remediation Started: 10/7/97

Date Completed: 10/7/97

Remediation Method: Excavation ☒ Approx. Cubic Yard 23

(Check all appropriate sections)

Landfarmed ☒ Amount Landfarmed (cubic yds) 23

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 13' X 4' 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 2' walls and 4' bottom.

Sample date 10/7/97 Sample time 2:00:00 PM

## Sample Results

Benzene (ppm) 0.0030

Total BTEX (ppm) 0.7060

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

TPH (ppm) 264.00 Method 8015A

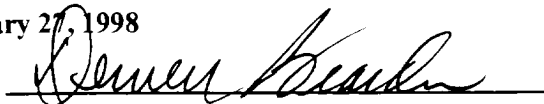
Vertical Extent (ft) \_\_\_\_\_ Risk Assessment form attached Yes \_\_\_\_\_ No \_\_\_\_\_

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 January 27, 1998

SIGNATURE

PRINTED NAME AND TITLE Denver Bearden  
Administrator III

N

10-7-97-@1055

Breach A #204M

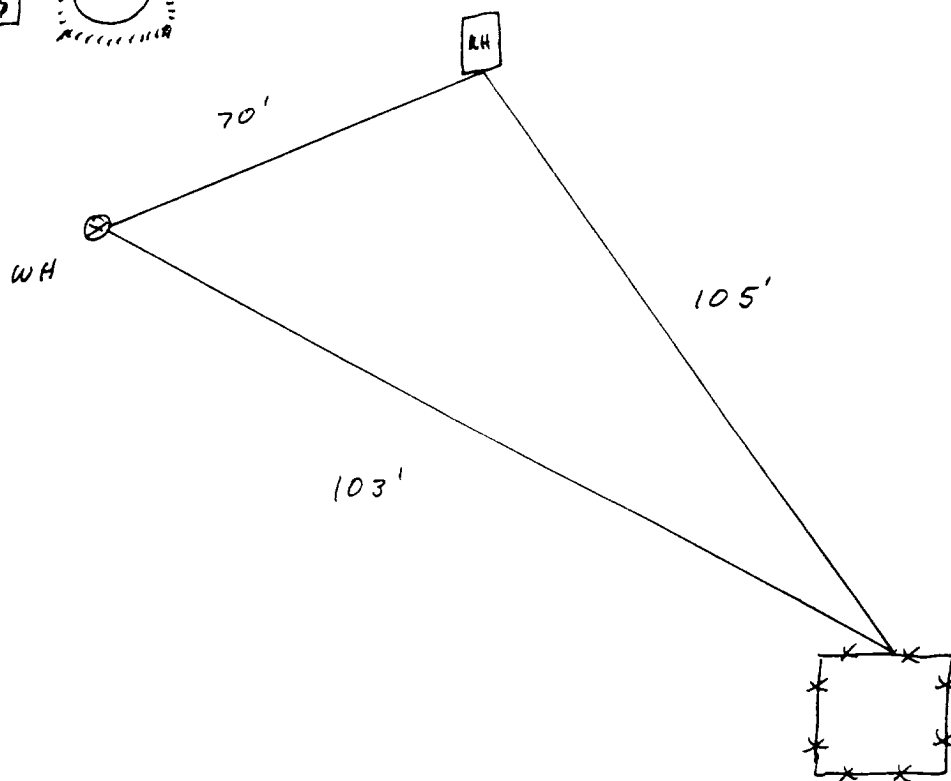
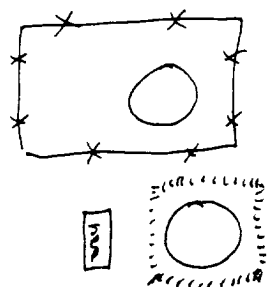
Caulkins

(E) 9-26N-6W

Rio Arriba

Footage from Ref: 103'

68° E of N



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-Oct-97*  
COC No.: *5824*  
Sample No.: *16540*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #204M*  
Project Location: *9710071400; Composite, Walls @ 2' and Bottom @ 4'*  
Sampled by: *GC* Date: *7-Oct-97* Time: *14:00*  
Analyzed by: *DC/HR* Date: *14-Oct-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>264</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>185</i>	<i>8.0</i>	<i>15%</i>

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>87</i>	<i>87</i>	<i>(70-130)</i>	<i>0</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *10/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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-Oct-97*  
COC No.: *5824*  
Sample No.: *16540*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #204M*  
Project Location: *9710071400; Composite, Walls @ 2' and Bottom @ 4'*  
Sampled by: *GC* Date: *7-Oct-97* Time: *14:00*  
Analyzed by: *HR* Date: *10-Oct-97*  
Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	3	ug/kg	1	ug/kg
<i>Toluene</i>	162	ug/kg	5	ug/kg
<i>Ethylbenzene</i>	22	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	407	ug/kg	1	ug/kg
<i>o-Xylene</i>	111	ug/kg	1	ug/kg
	<i>TOTAL</i>	706		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by:  
Date:

↑  
N

11-11-97 @ 0930

Borech A #204M

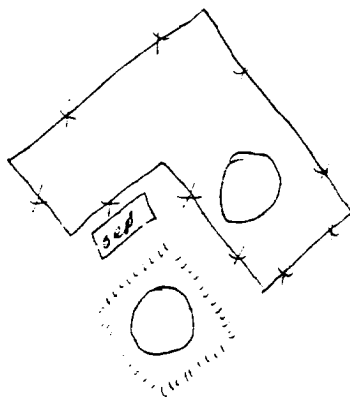
Caulkins

(E) 9-26N-6W

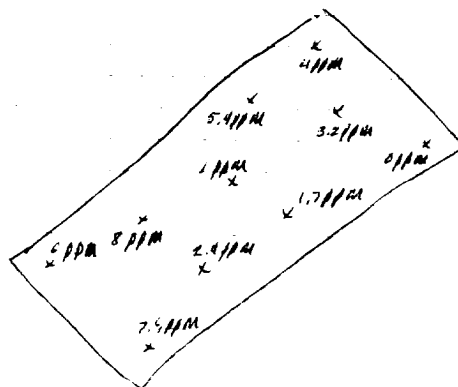
Rio Arriba

Sample # 9711110930

Landfarm field head space: 7.5 ppm



WH ⊕



2-10"

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: *13-Nov-97*  
 COC No.: *5986*  
 Sample No.: *16821*  
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech A #204M Landfarm***  
 Project Location: ***9711110930; Composite***  
 Sampled by: *RH* Date: *11-Nov-97* Time: *9:30*  
 Analyzed by: *DC.HR* Date: *12-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>	<i>720</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>204</i>	<i>1.9</i>	<i>15%</i>

**Matrix Spike**

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>91</i>	<i>90</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: *11/13/97*

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