

District I  
P.O. Box 1990, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88221  
District III  
1000 Rio Brazos Rd. Aztec, NM 87410

*Denny E. Foust*  
**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 D #239

**Location:** Unit B Sec 15 T 26 N R 6 W County Rio Arriba

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

**Land Type:** BLM ☒ State ☐ Fee ☐ Other ☐

**Pit Location:** Pit dimensions: length 12 width 12 depth 3

(Attach diagram) **Reference:** wellhead ☒ other ☐

**Footage from reference:** 116'

**Direction from reference:** 85 Degrees ☐ East ☒ North ☒  
of ☒ West ☐ South ☐

**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)

**RECEIVED**  
NOV - 3 1997

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

**OIL CON. DIV.**  
DIST. 3

**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

Breach D #239

Date Remediation Started: 8/8/97 Date Completed: 8/8/97Remediation Method: Excavation X Approx. Cubic Yard 322

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 322

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 23' X 21' 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.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 16' walls and 21' bottom.Sample date 8/8/97 Sample time 4:00:00 PM

## Sample Results

Benzene (ppm) < 0.0020Total BTEX (ppm) 0.0370

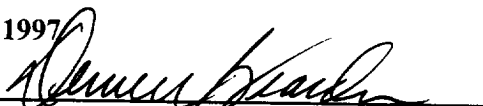
Field headspace (ppm) \_\_\_\_\_

TPH (ppm) < 5.00 Method 8015AVertical 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

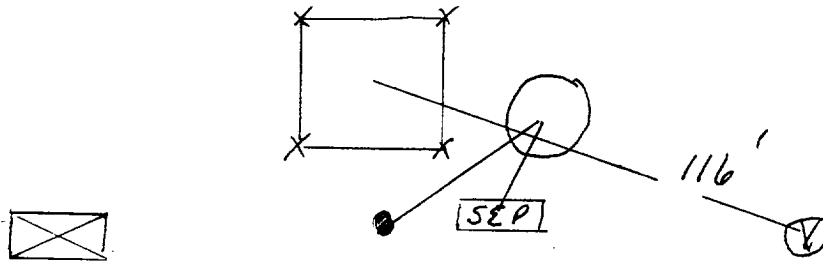
SIGNATURE

PRINTED NAME **Denver Bearden**  
AND TITLE **Administrator III**

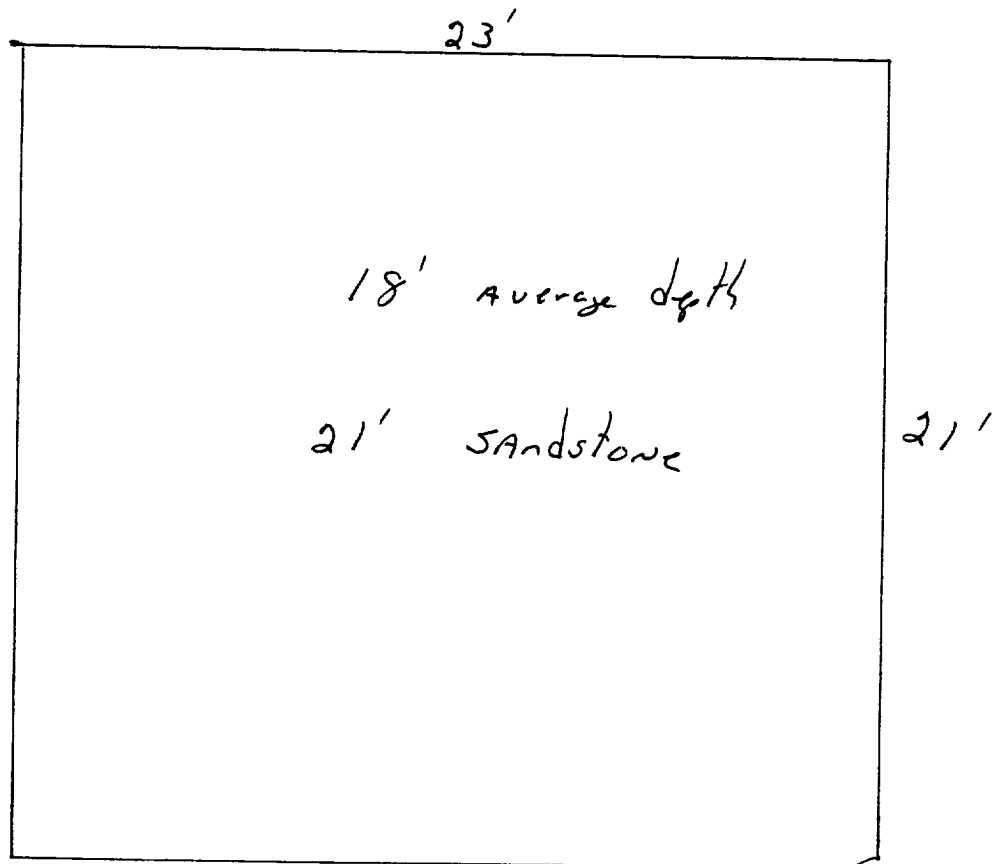
Breach 0 # 239  
Cannkins Oil  
Sec. 15, 26 N, 6 W, 8

8-8-97

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: *21-Aug-97*  
COC No.: *5952*  
Sample No.: *15740*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #239*  
Project Location: *9708081600; Composite, 4 Walls @ 16' and Bottom @ 21'*  
Sampled by: *GC* Date: *8-Aug-97* Time: *16:00*  
Analyzed by: *HR/DC* Date: *20-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>	ND	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	201	0.6	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	89	(70-130)	4	20%

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

Approved by: *[Signature]*  
Date: *8/21/97*

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: *15-Aug-97*  
COC No.: *5952*  
Sample No.: *15740*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #239*  
Project Location: *9708081600; Composite, 4 Walls @ 16' and Bottom @ 21'*  
Sampled by: *GC* Date: *8-Aug-97* Time: *16:00*  
Analyzed by: *DC* Date: *12-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	2	ug/kg
<i>Toluene</i>	8	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	3	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	13	ug/kg	2	ug/kg
<i>o-Xylene</i>	13	ug/kg	2	ug/kg
	<i>TOTAL</i>	37	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: *8/15/97*

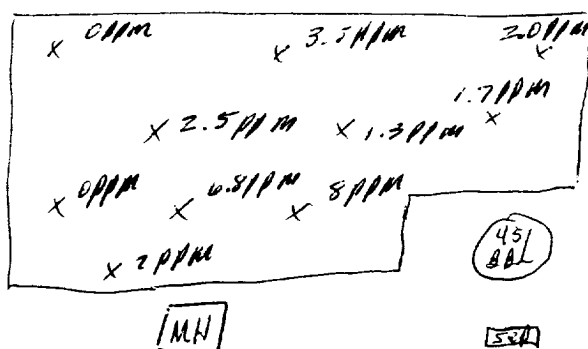
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N

8-28-97- @1000  
Breach D#234  
Caulkins  
(B) 15-26N-6W  
RPO Arriba  
Sample # 4708281000  
Land farm field head space - 4.0 ppm

See lab analysis for BTEX.



⊗ WH

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.: *5975*  
Sample No.: *15992*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #239 Landfarm*

Project Location: *9708281000; Composite Sample*

Sampled by: *RH* Date: *28-Aug-97* Time: *10:00*

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>	ND	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	204	2.0	15%

#### Matrix Spike

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

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.: *5975*  
Sample No.: *15992*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #239 Landfarm*

Project Location: *9708281000; Composite Sample*

Sampled by: *RH* Date: *28-Aug-97* Time: *10:00*

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>	2	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	3	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	6		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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