

District III  
1000 Rio Brazos Rd. Aztec NM 87410

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

# 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 E #89E Drip</u>			
<b>Location:</b>	Unit <u>E</u>	Sec <u>3</u>	T <u>26 N</u> R <u>6 W</u> County <u>Rio Arriba</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input type="checkbox"/>	Other <input type="checkbox"/> Drip <input checked="" type="checkbox"/>
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <input type="checkbox"/>

<b>Pit Location:</b>	Pit dimensions:	length <u>20</u>	width <u>20</u>	depth <u>3</u>
(Attach diagram)	Reference:	wellhead <input checked="" type="checkbox"/>	other <input type="checkbox"/>	
Footage from reference:		<u>270'</u>		
Direction from reference:		<u>10</u> Degrees	<input checked="" type="checkbox"/> East	<input checked="" type="checkbox"/> North
			of	
			<input type="checkbox"/> West	<input type="checkbox"/> South

<b>Depth to Ground Water:</b>  <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	( 0 points)	

<b>Wellhead Protection Area:</b>  <small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>	Yes	(20 points)	<u>0</u>
	No	( 0 points)	

<b>Distance to Surface Water:</b>  <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet	(20 points)	<u>0</u>
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	( 0 points)	

<b>RANKING SCORE (TOTAL POINTS):</b>	<u>0</u>
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Breach E #89E Drip

Date Remediation Started: 7/24/97Date Completed: 7/24/97Remediation Method: Excavation XApprox. Cubic Yard 384(Check all  
appropriate  
sections)Landfarmed XAmount Landfarmed (cubic yds) 384

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 pit size of 24' X 24' 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:(if multiple samples, attach  
sample result and diagram of  
sample locations and depths.)

Sample Location

5 pt composite-4 side walls and center of pit bottom

Sample depth

15' walls and 18' bottom.

Sample date

7/24/97

Sample time

12:00:00 PM

Sample Results

Benzene (ppm) < 0.0010Total BTEX (ppm) 0.3680

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

TPH (ppm)

< 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 BELIEFDATE October 27, 1997

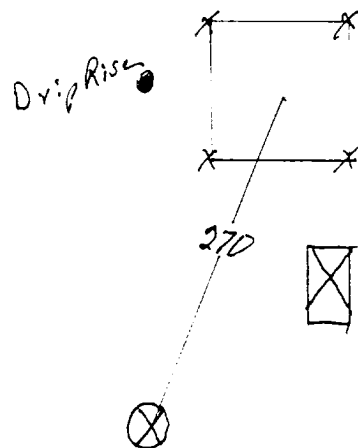
SIGNATURE

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

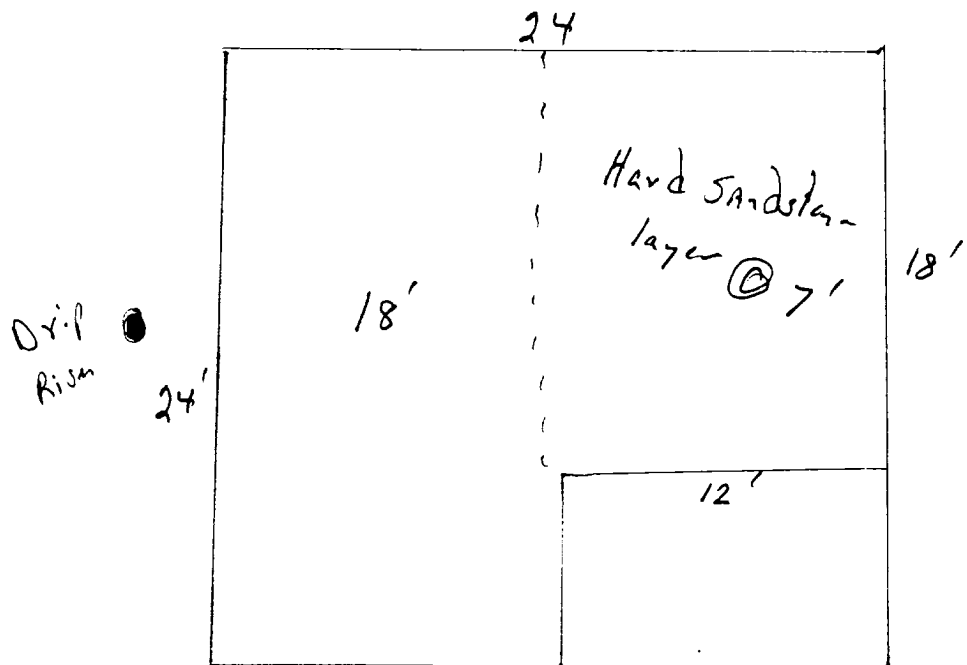
Breach E-89E  
Caulkins Oil  
Sec. 3, 26N, 6W, E

7-24-97

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: *4-Aug-97*  
COC No.: *5947*  
Sample No.: *15484*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #89E Drip*  
Project Location: *9707241200; Composite, 4 Walls @ 15' and Bottom @ 18'*  
Sampled by: *GC* Date: *24-Jul-97* Time: *12:00*  
Analyzed by: *HR/DC* Date: *31-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>	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	192	4.3	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	86	88	(70-130)	3	20%

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

Approved by: *[Signature]*  
Date: *8/4/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- FARMINGTON BLENDING DISTRICT WITH THE U.S. ARMY

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: *31-Jul-97*  
COC No.: *5947*  
Sample No.: *15484*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #89E Drip*  
Project Location: *9707241200; 4 Walls @ 15' and Bottom @ 18'*  
Sampled by: *GC* Date: *24-Jul-97* Time: *12:00*  
Analyzed by: *HR* Date: *30-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>	23	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	12	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	251	ug/kg	1	ug/kg
<i>o-Xylene</i>	81	ug/kg	1	ug/kg
	<i>TOTAL</i>	368	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: *7/31/97*

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Telephone: (505) 325-5667 Fax: (505) 325-1556

↑  
N

08-14-97 - 1320

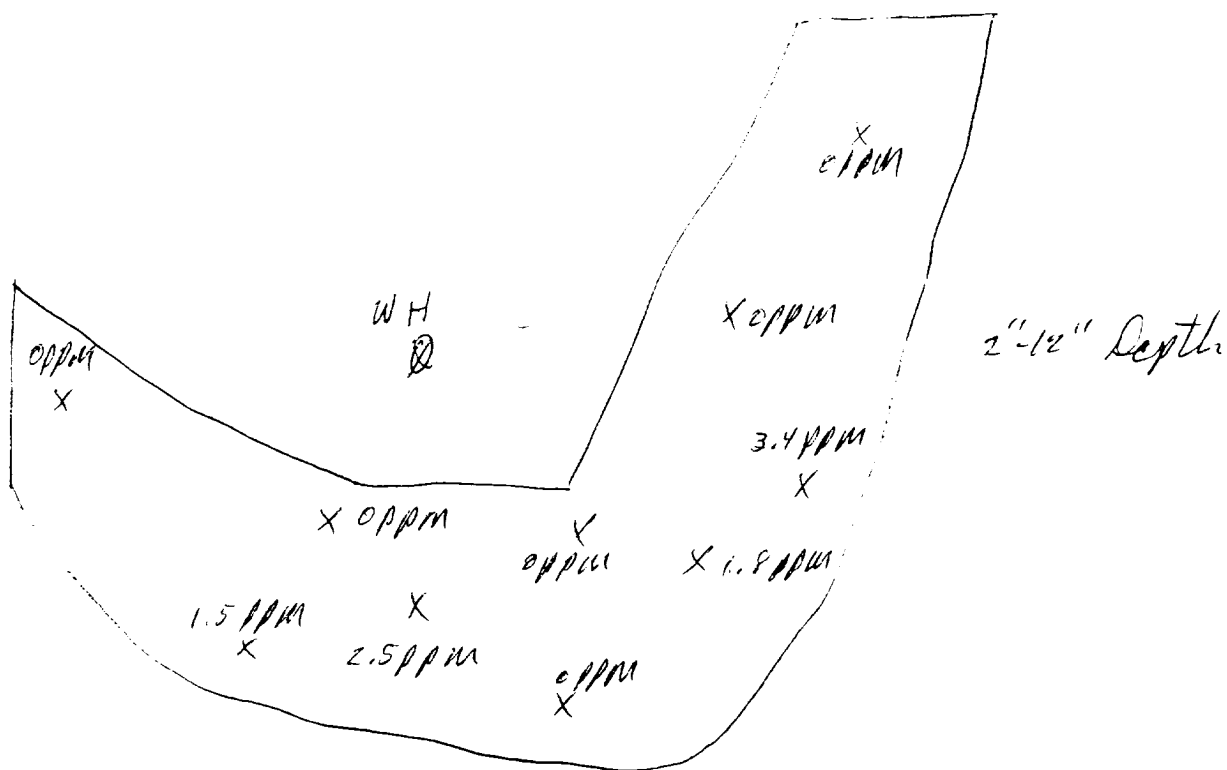
Breach E 84E Drip

Caulkins

(E) 3-26N-6W

Land farm field headspace - 1.3 ppm

Sample # 9708141320



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: 19-Aug-97  
COC No.: 5205  
Sample No.: 15805  
Job No.: 2-1000

Project Name: ***PNM Gas Services - Breech E 89E Drip Landfarm***

Project Location: ***9708141320; Composite Sample***

Sampled by: RH Date: 14-Aug-97 Time: 13:20

Analyzed by: HR/DC Date: 18-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	183	8.9	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	83	82	(70-130)	1	20%

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

Approved by:   
Date: 8/19/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -