

Denny E. Frost

District I
P.O. Box 1000
DEPUTY OIL & GAS INSPECTOR

District II
P.O. Drawer DD, Artesia, NM 88220
FEB 26 1998

District III
1000 Rio Brazos Rd. Aztec, NM 87410

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 A #136E

Location: Unit O Sec 10 T 26 N R 6 W County Rio Arriba

Pit Type: Separator ☐ Dehydrator ☐ Other Main drip blowdown

Land Type: BLM ☒ State ☐ Fee ☐ Other No

Pit Location: Pit dimensions: length 18 width 18 depth 3

(Attach diagram) Reference: wellhead ☒ other _____

Footage from reference: 235'

Direction from reference: 7 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>0</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
OIL CON. DIV.
DIST. 3

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

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): 0

Breach A #136E

Date Remediation Started: 8/9/97

Date Completed: 8/9/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 79

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 79

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 15' X 13' X 11' 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 11'

Sample date 8/9/97

Sample time 3:25:00 PM

Sample Results

Benzene (ppm) 0.0090

Total BTEX (ppm) 0.1960

Field headspace (ppm)

TPH (ppm) 137.00 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

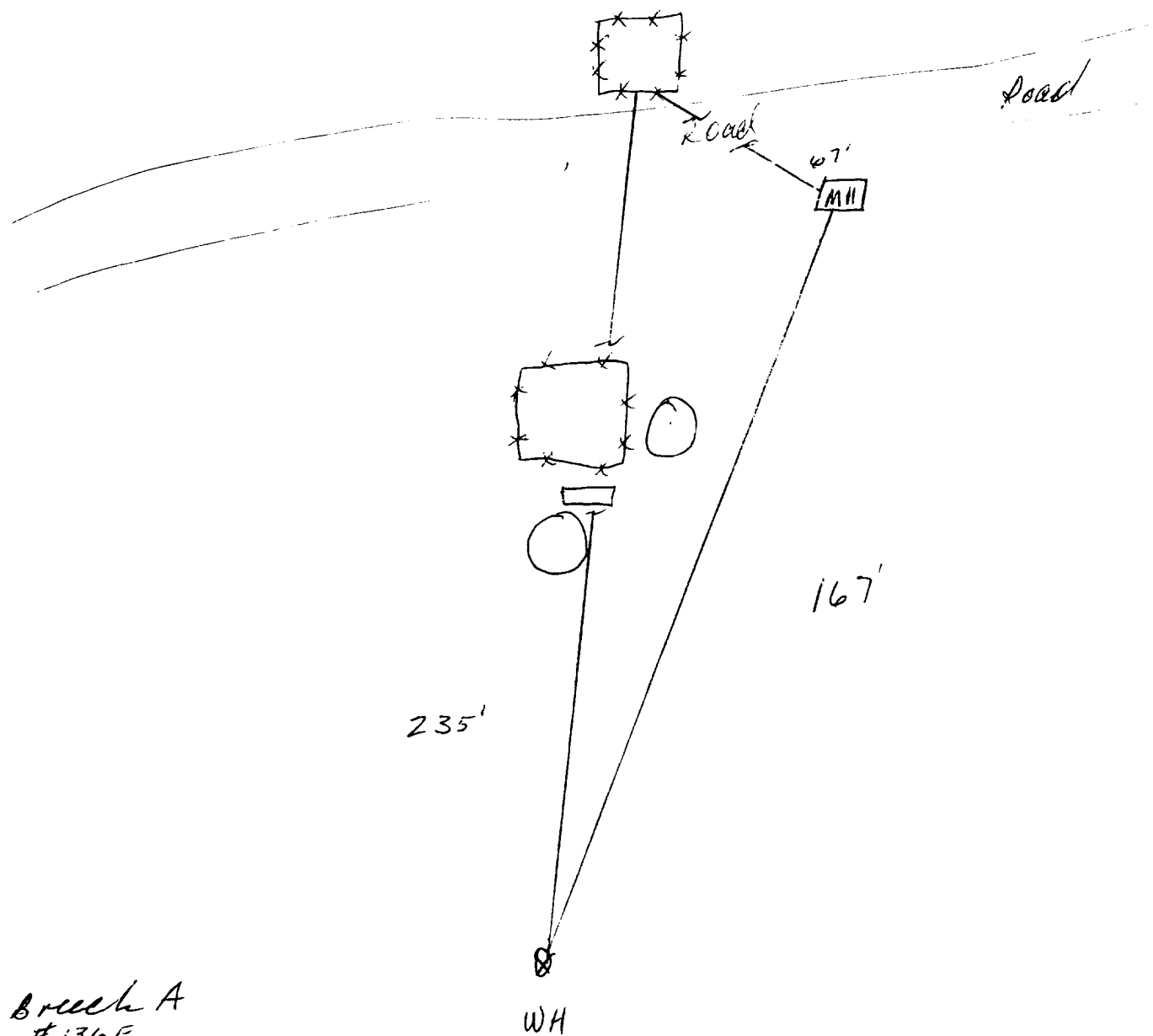
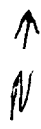
DATE October 27, 1997

SIGNATURE



PRINTED NAME AND TITLE

Denver Bearden
Administrator III



Breach A
#136 E.
Caulkins
(O) 10-26N-6W

7° E of N
235' 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.: *5199*
Sample No.: *15734*
Job No.: *2-1000*

Project Name: *PNM Gas Services - 136E*
Project Location: *9708091525; Excavation Composite Sample*
Sampled by: *RH* Date: *9-Aug-97* Time: *15:25*
Analyzed by: *HR/DC* Date: *14-Aug-97*
Sample Matrix: *Soil*

Breach A

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>137</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*

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.: *5199*
Sample No.: *15734*
Job No.: *2-1000*

Project Name: *PNM Gas Services - 136E*
Project Location: *9708091525; Excavation Composite Sample*
Sampled by: *RH* Date: *9-Aug-97* Time: *15:25*
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>	9	ug/kg	2	ug/kg
<i>Toluene</i>	76	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	11	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	80	ug/kg	2	ug/kg
<i>o-Xylene</i>	20	ug/kg	2	ug/kg
	<i>TOTAL</i>	196		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*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

↑
N

8-28-97 - @ 1050

Breach A #13GE

Caulkins

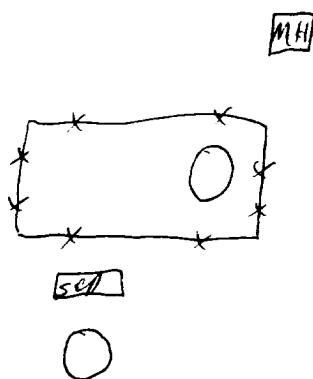
(O) 10-26W-6W

Rto Arriba

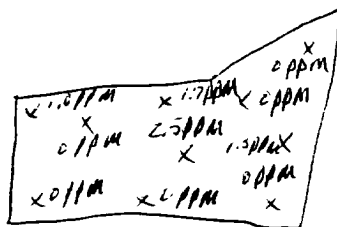
Sample # 9708281050

Land from field headspace - 1.8 ppm

See lab analysis for BTEX.



WH ①



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: *4-Sep-97*
COC No.: *5979*
Sample No.: *15996*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #136E Landfarm*
Project Location: *9708281050; Composite Sample*
Sampled by: *RH* Date: *28-Aug-97* Time: *10:50*
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>203</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*

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: *2-Sep-97*
COC No.: *5979*
Sample No.: *15996*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #136E Landfarm*

Project Location: *9708281050; Composite Sample*

Sampled by: *RH* Date: *28-Aug-97* Time: *10:50*

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>	6	ug/kg	1	ug/kg
<i>o-Xylene</i>	4	ug/kg	1	ug/kg
	<i>TOTAL</i>	12		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*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT