

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

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

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OIL CON. DIV.
DIST. 3

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

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: Breech #228

Location: Unit A Sec 18 T 26 N R 6 W County Rio Arriba

Pit Type: Separator ☐ Dehydrator ☒ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐ No ☐

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 60'

Direction from reference: 60 Degrees ☒ East ☐ North ☒
of ☐ West ☐ South ☐

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

(Vertical distance from contaminants to
seasonal high water elevation of ground
water)

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

(Less than 200 feet from a private
domestic water source, or, less than 1,000
feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes,
ponds, rivers, streams, creeks, irrigation
canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Breach #228

Date Remediation Started: 7/11/97

Date Completed: 7/11/97

Remediation Method:

Excavation ☒

Approx. Cubic Yard 115

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 115

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 26' X 8' 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

Pit bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

8'

Sample date

7/11/97

Sample time

1:30:00 PM

Sample Results

Benzene (ppm)

0.0500

Total BTEX (ppm)

15.6450

Field headspace (ppm)

TPH (ppm)

89.00

Method

8015A

Vertical Extent (ft) _____

Risk Assessment form attached

Yes



No



Ground Water Sample:

Yes



No

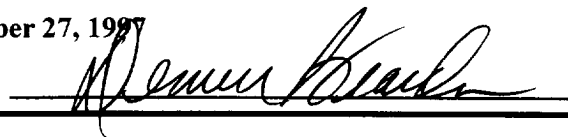


(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 27, 1997

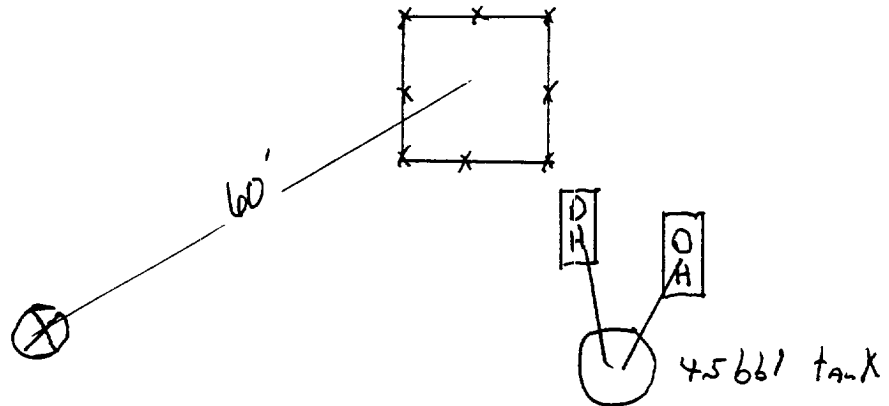
SIGNATURE

PRINTED NAME
AND TITLEDenver Bearden
Administrator III

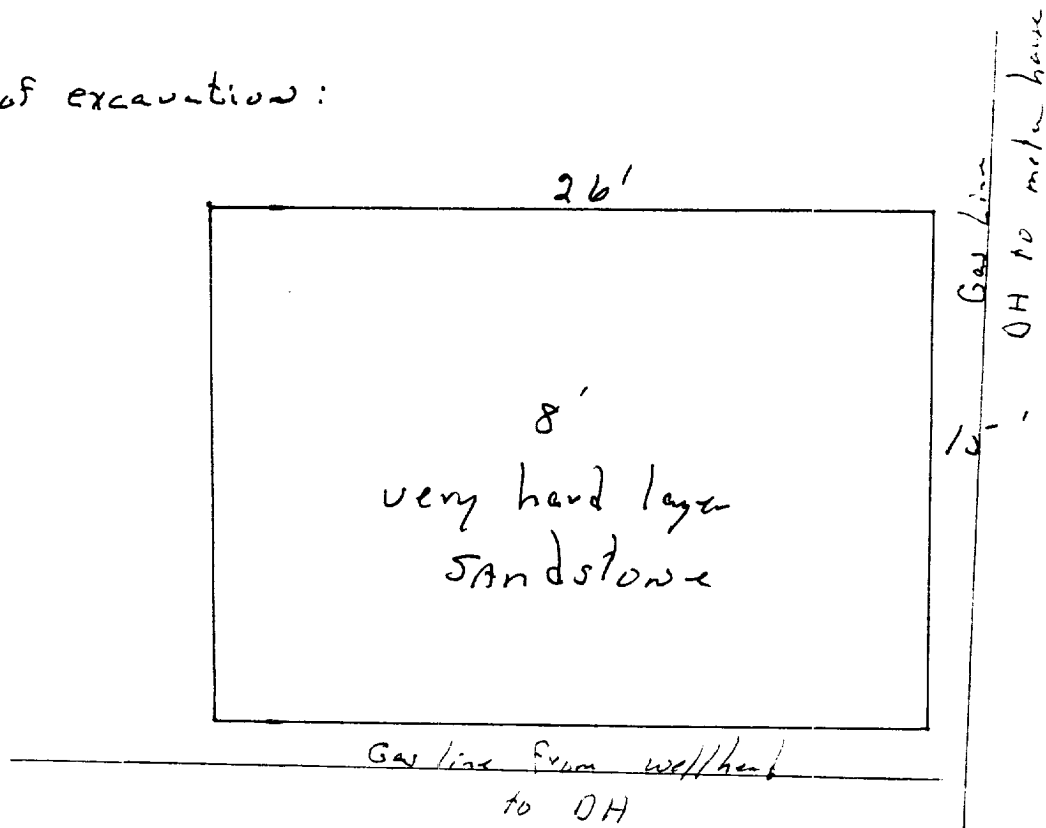
Breach # 228
Caulkins Oil
Sec. 18, 26N, 6W, A

7-11-97

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: *17-Jul-97*
COC No.: *5922*
Sample No.: *15325*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #228*

Project Location: *9707111330; Bottom @ 8'*

Sampled by: GC Date: *11-Jul-97* Time: *13:30*

Analyzed by: DC Date: *16-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>	<i>89</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>183</i>	<i>8.7</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>120</i>	<i>108</i>	<i>(70-130)</i>	<i>10</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *7/17/97*

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: *23-Jul-97*
COC No.: *5922*
Sample No.: *15325*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #228*

Project Location: *9707111330; Bottom @ 8'*

Sampled by: *GC* Date: *11-Jul-97* Time: *13:30*

Analyzed by: *DC* Date: *18-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	50	ug/kg
<i>Toluene</i>	1616	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	1320	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	10212	ug/kg	50	ug/kg
<i>o-Xylene</i>	2498	ug/kg	50	ug/kg
	<i>TOTAL</i>	15645	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: *7/13/97*

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- 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: *17-Jul-97*
COC No.: *5922*
Sample No.: *15326*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #228*
Project Location: *9707111430; 4 Walls @ 6'*
Sampled by: *GC* Date: *11-Jul-97* Time: *14:30*
Analyzed by: *DC* Date: *16-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>	<i>109</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>183</i>	<i>8.7</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>120</i>	<i>108</i>	<i>(70-130)</i>	<i>10</i>	<i>20%</i>

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

Approved by: 

Date: *7/17/97*

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- 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: *23-Jul-97*
COC No.: *5922*
Sample No.: *15326*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech #228***

Project Location: ***9707111430; 4 Walls @ 6'***

Sampled by: GC Date: *11-Jul-97* Time: *14:30*

Analyzed by: DC Date: *18-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	2	ug/kg
<i>Toluene</i>	4	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	40	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	63	ug/kg	2	ug/kg
<i>o-Xylene</i>	9	ug/kg	2	ug/kg
	<i>TOTAL</i>	116	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: *7/23/97*

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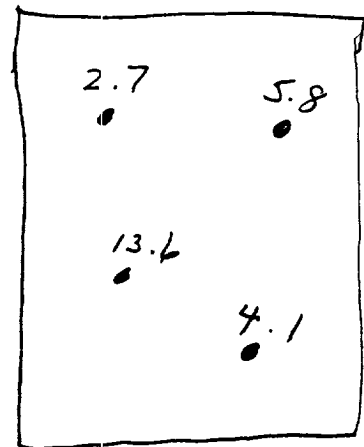
Breech # 228
Caulkiss Oil
Sec. 17, 26N, 6W

7-25-97

Landfarm : On location
Composite sample # 9707251430 4 pt comp.
Soil vapor headspace PID reading = 4.7 ppm



2"-12" depth



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.: *5943*
Sample No.: *15492*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #228 Landfarm*
Project Location: *9707251430; 4pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *25-Jul-97* Time: *14:30*
Analyzed by: *HR/DC* Date: *28-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>	645	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	214	6.5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	82	(70-130)	4	20%

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

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

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