

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

District I
P.O. Box
District II
P.O. Drawer DD, Artesia, NM 88201
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

FEB 26 1998

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 B #172
Location: Unit L Sec 7 T 26 N R 6 W County Rio Arriba
Pit Type: Separator Dehydrator ☒ Other
Land Type: BLM ☒ State Fee Other

Pit Location: Pit dimensions: length 20 width 20 depth 3
(Attach diagram) Reference: wellhead ☒ other
Footage from reference: 65'
Direction from reference: 10 Degrees ☒ East North ☐
West of 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:

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

Yes (20 points)
No (0 points) 0

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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) 0

RANKING SCORE (TOTAL POINTS): 0

Breach B #172

Date Remediation Started: 7/15/97

Date Completed: 7/15/97

Remediation Method:

Excavation ☒

Approx. Cubic Yard 190

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 190

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 pit size of 27' X 19' X 10' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by 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 8' walls and 10' bottom.

Sample date 7/15/97

Sample time 2:15:00 PM

Sample Results

Benzene (ppm) < 0.2500

Total BTEX (ppm) 23.8000

Field headspace (ppm)

TPH (ppm) 1742.00

Method 8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

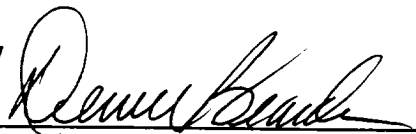
No ☒

(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



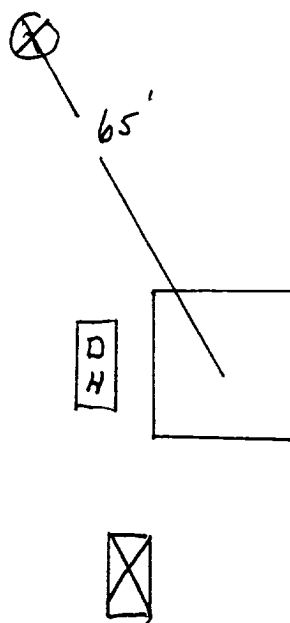
PRINTED NAME
AND TITLE

Denver Bearden
Administrator III

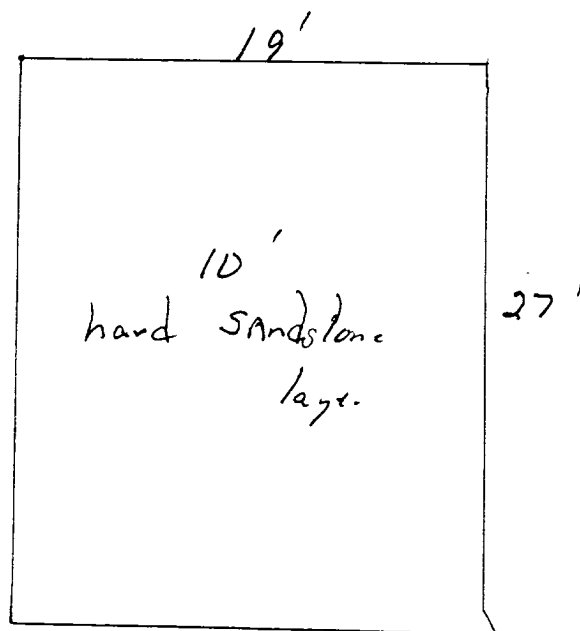
Breach B #172
Cankins Oil
Sec. 7, 26N, 6W, 4

7-15-97

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.: *5913*
Sample No.: *15332*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #172*
Project Location: *9707151415; Composite, Walls @ 8' and Bottom @ 10'*
Sampled by: GC Date: *15-Jul-97* Time: *14:15*
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>1742</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: *7/23/97*

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.: *5913*
Sample No.: *15332*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #172*
Project Location: *9707151415; Composite, 4 Walls @ 8' and Bottom @ 10'*
Sampled by: GC Date: *15-Jul-97* Time: *14:15*
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	250	ug/kg
<i>Toluene</i>	1930	ug/kg	250	ug/kg
<i>Ethylbenzene</i>	1468	ug/kg	250	ug/kg
<i>m,p-Xylene</i>	16638	ug/kg	250	ug/kg
<i>o-Xylene</i>	3764	ug/kg	250	ug/kg
	<i>TOTAL</i>	23800	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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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.: 5913
Sample No.: 15333
Job No.: 2-1000

Project Name: **PNM Gas Services - Breech B #172 (GC)**
Project Location: **9707151420; Composite, Walls @ 8' and Bottom @ 10'**
Sampled by: GC Date: 15-Jul-97 Time: 14:20
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>	1263	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

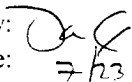
Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	183	8.7	15%

Matrix Spike

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

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

Approved by: 
Date: 7/23/97

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Environmental Remediation Systems, Inc. is an Equal Opportunity Employer

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.: *5913*
Sample No.: *15333*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #172 (GC)*
Project Location: *9707151420; Composite, 4 Walls @ 8' and Bottom @ 10'*
Sampled by: *GC* Date: *15-Jul-97* Time: *14:20*
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	250	ug/kg
<i>Toluene</i>	1480	ug/kg	250	ug/kg
<i>Ethylbenzene</i>	1254	ug/kg	250	ug/kg
<i>m,p-Xylene</i>	18519	ug/kg	250	ug/kg
<i>o-Xylene</i>	3936	ug/kg	250	ug/kg
	<i>TOTAL</i>	25190	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: *DC*

Date: *7/23/97*

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TEL: (505) 325-5667 FAX: (505) 325-1556

Breach B # 172
Caulkins Oil
Sec. 7, 26N, 6W

7-25-97

Land Farmed: On location
Composite sample # 9707251345
Soil vapor headspace PIO reading = 29.7 ppm ^{6pt. comp.}

7.1	28.1
4.2	11.7
3.1	6.1

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.: *5940*
Sample No.: *15489*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech B #172 Landfarm*
Project Location: *9707251345; 6pt. Composite, 2"-12" depth*
Sampled by: GC Date: *25-Jul-97* Time: *13:45*
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>	<i>779</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>214</i>	<i>6.5</i>	<i>15%</i>

Matrix Spike

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

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

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

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