

District I
P.O. Box 1990, Santa Fe, NM 87501

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

JUN 23 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

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 E #112

Location: Unit P Sec 3 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: 85'

Direction from reference: 45 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 flows)

RANKING SCORE (TOTAL POINTS): 0

RECEIVED
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DIST.

Breach E #112

Date Remediation Started: 9/11/97

Date Completed: 9/11/97

Remediation Method:

Excavation

☒

Approx. Cubic Yard

148

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

148

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 20' X 20' X 10' 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

7' walls and 10' bottom.

Sample date

9/11/97

Sample time

10:00:00 AM

Sample Results

Benzene (ppm) < 0.0500

Total BTEX (ppm) 2.9350

Field headspace (ppm)

TPH (ppm)

8.00

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 January 27, 1998

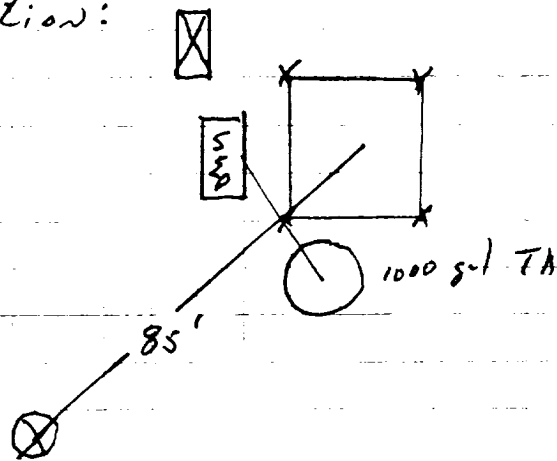
SIGNATURE

PRINTED NAME
AND TITLEDenver Bearden
Administrator III

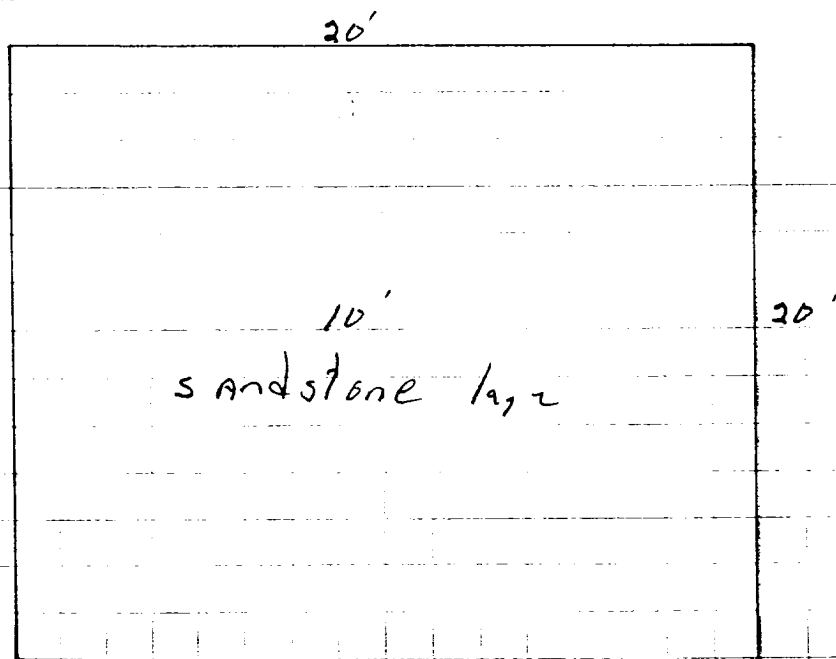
Breach E # 112
Caulkins Oil
Sec. 3, 26N, 6W, P

9/11/97

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: *18-Sep-97*
COC No.: *5688*
Sample No.: *16160*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #112*
Project Location: *9709111000; Walls @ 7' and Bottom @ 10'*
Sampled by: *GC* Date: *11-Sep-97* Time: *10:00*
Analyzed by: *DC/HR* Date: *17-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>8</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.: 0555-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>177</i>	<i>12.5</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>87</i>	<i>88</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

Method - *SW-846 EPA Method 8015A, mod - Normalization of Values. Hydrocarbon Analysis by chromatography.*

Approved by: *[Signature]*
Date: *9/18/97*

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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-Sep-97*
COC No.: *5688*
Sample No.: *16160*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #112*
Project Location: *9709111000; Walls @ 7' and Bottom @ 10'*
Sampled by: *GC* Date: *11-Sep-97* Time: *10:00*
Analyzed by: *DC* Date: *15-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	50	ug/kg
<i>Toluene</i>	208	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	228	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	1856	ug/kg	50	ug/kg
<i>o-Xylene</i>	643	ug/kg	50	ug/kg
	<i>TOTAL</i>	2935	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Denver Bearden
Date: *9/17/97*

10-1-97 @ 0830

Breach E #112

Caulkins

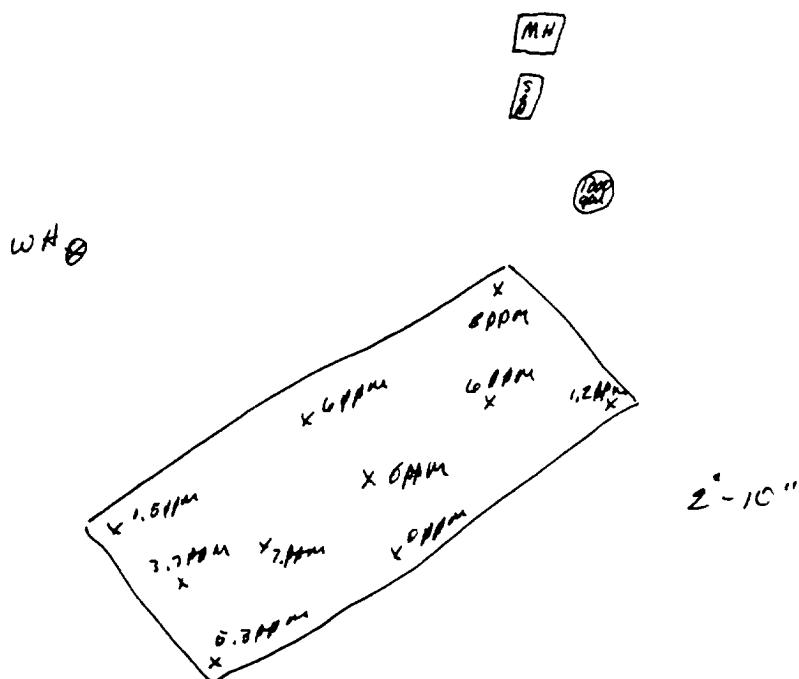
(P) 3-26N-6W

Rio Arriba

Sample # 971001 0830

Lowd farm field head race: 4 ppm

↑



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: *6-Oct-97*
COC No.: *5676*
Sample No.: *16461*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech E #112 Landfarm*
Project Location: *9710010830; Composite*
Sampled by: *RH* Date: *1-Oct-97* Time: *8:30*
Analyzed by: *DC/HR* Date: *2-Oct-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.: 0555-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	188	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	91	89	(70-130)	2	20%

Method - EPA 821-8 (C10-C28) by EPA 821-8 (C10-C28) Method, EPA 821-8 (C10-C28) Method

Approved by: *[Signature]*
Date: *10/6/97*

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