

District I
P.O. Box 1980 Hobbs, NM 88240

District II
P.O. Drawer 100 Aztec, NM 88221

District III
1000 Rio Brazos Rd. Aztec, NM 88220

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

George E. Foust
OIL & GAS INSPECTOR

JUN 23 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: Breach A #177

Location: Unit L Sec 9 T 26 N R 6 W County Rio Arriba

Pit Type: Separator Dehydrator Other Man drip blowdown.

Land Type: BLM ☒ State Fee Other

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

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 66'

Direction from reference: 30 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 100
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 A #177

Date Remediation Started: 10/8/97

Date Completed: 10/8/97

Remediation Method:

Excavation

☒

Approx. Cubic Yard

25

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

25

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 15' X 15' X 3' 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

3'

Sample date

10/8/97

Sample time

10:00:00 AM

Sample Results

Benzene (ppm) < 0.0020

Total BTEX (ppm) 0.7870

Field headspace (ppm)

TPH (ppm)

16.00

Method

8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

No

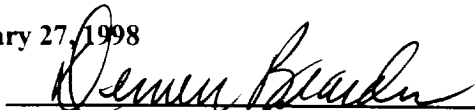
☒

(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

10-8-97 @0800

Breech A #177

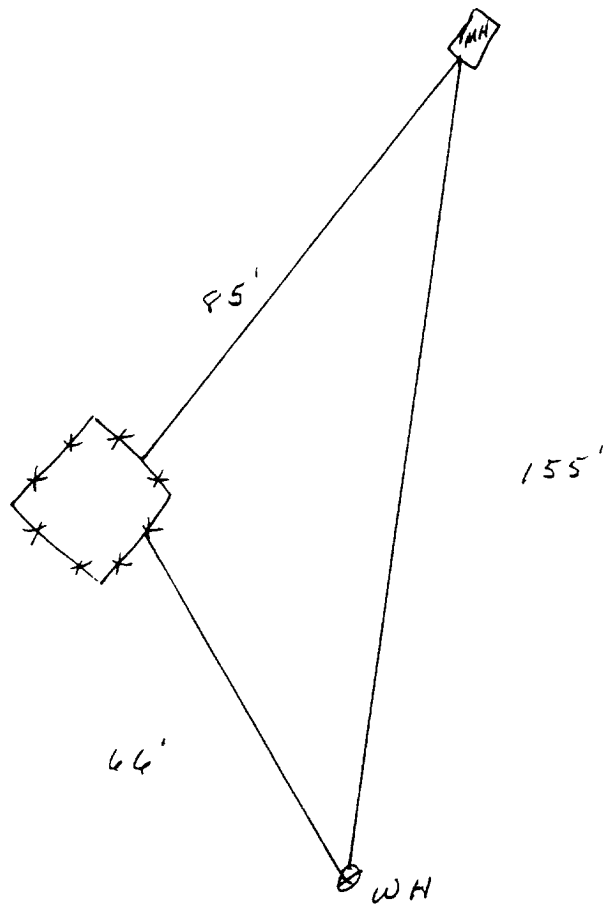
Caulkins

(L) 9-26N-6W

Rio Arriba

Footage from Ref.: 66'

30° W of N



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-Oct-97*
COC No.: *5665*
Sample No.: *16541*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #177*
Project Location: *9710081000; Pit Excavation Composite*

Sampled by: *RH* Date: *8-Oct-97* Time: *10:00*
Analyzed by: *DC/HR* Date: *14-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>	<i>16</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>185</i>	<i>8.0</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>87</i>	<i>87</i>	<i>(70-130)</i>	<i>0</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *10/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE FUTURE IN MIND -

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-Oct-97*
COC No.: *5665*
Sample No.: *16541*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #177*
Project Location: *9710081000; Pit Excavation Composite*
Sampled by: *RH* Date: *8-Oct-97* Time: *10:00*
Analyzed by: *DC* Date: *14-Oct-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>	12	ug/kg	10	ug/kg
<i>Ethylbenzene</i>	45	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	495	ug/kg	2	ug/kg
<i>o-Xylene</i>	234	ug/kg	2	ug/kg
	<i>TOTAL</i>	787	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: *10/17/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

11
N

11-11-97 @ 1000

breech A #177

Caultkins

(E) 9-26N-6W

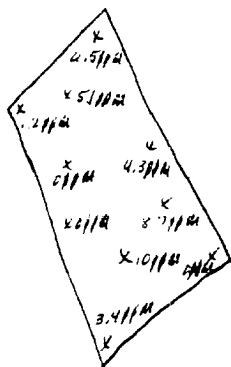
rio Arriba

sample # 971111000

Land farm field head space: 8 ppm



" 12 "



UH

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: *13-Nov-97*
COC No.: *5986*
Sample No.: *16822*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #177 Landfarm*
Project Location: *9711111000; Composite*
Sampled by: *RH* Date: *11-Nov-97* Time: *10:00*
Analyzed by: *DC HR* Date: *12-Nov-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>37</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>204</i>	<i>1.9</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>91</i>	<i>90</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by:

Date:

[Signature]
11/13/97

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FOR THE USE OF BLENDING INDUSTRIES WITH THE LAND MANAGEMENT