

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

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

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 D #685E
Location: Unit P Sec 11 T 26 N R 6 W County Rio Arriba
Pit Type: Separator Dehydrator Other Drip
Land Type: BLM ☒ State Fee Other

Pit Location: Pit dimensions: length 20 width 20 depth 3
(Attach diagram) Reference: wellhead ☒ other
Footage from reference: 121'
Direction from reference: 20 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

Wellhead Protection Area: RECEIVED NOV - 3 1997 Yes (20 points)
No (0 points) 0

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

RANKING SCORE (TOTAL POINTS): 0

Breach D #685E

Date Remediation Started: 8/25/97

Date Completed: 8/25/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 104

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 104

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 7' 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.

***Sandstone encountered at 7'. See attached risk analysis form and lab analysis.

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 5' walls and 7' bottom.

Sample date 8/25/97

Sample time 1:00:00 PM

Sample Results

Benzene (ppm) 1.1210

Total BTEX (ppm) *** 82.4860

Field headspace (ppm)

TPH (ppm) 224.00

Method 8015A

Vertical Extent (ft)

Risk Assessment form attached

Yes

☒

No

Ground Water Sample:

Yes

No

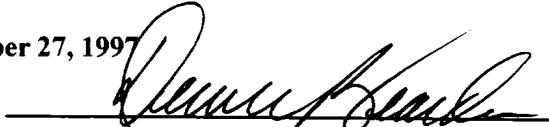
☒

(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



Well Name:	Breech D #685E
Well Legals:	Unit P, Sec 11, T20N, R0W
Pit Type:	Drip
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Breech D #685E using a limited risk analysis of the site conditions.

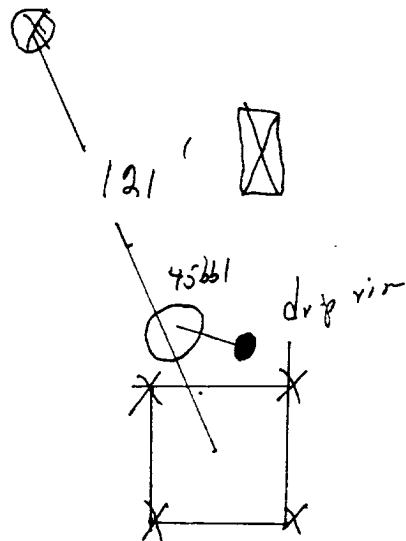
1. PNM estimated groundwater to be at a depth of 270 ft. based upon elevation of site to the Largo Wash. (Reference: topographic map.)
2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.
3. Distance from the site to surface water is greater than 1,000 ft.
4. PNM excavated 104 cu. yds. from the former pit. Bedrock was encountered @ 7 ft. below ground surface.

Based upon the information provided above, PNM believes the Breech D #685E poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 800 pits. Source removal minimizes the possibility of surface water contamination. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is highly unlikely.

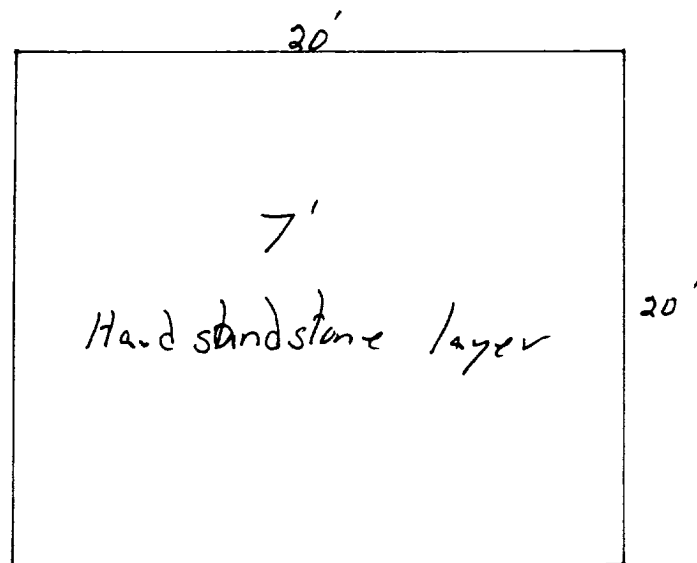
Breach D # 685 E
Cankins D.1
Sec. 11, 26N, 6W, P

8/25/97

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: *29-Aug-97*
COC No.: *5953*
Sample No.: *15913*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #685E*
Project Location: *9708251300; Composite, 4 Walls @ 5' and Bottom @ 7'*
Sampled by: *GC* Date: *25-Aug-97* Time: *13:00*
Analyzed by: *HR/DC* Date: *27-Aug-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>224</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>198</i>	<i>1.0</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>85</i>	<i>84</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *8/29/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- Farmington, New Mexico is in the heart of the Southwest -

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.: *5953*
Sample No.: *15913*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #685E*
Project Location: *9708251300; Composite, 4 Walls @ 5' and Bottom @ 7'*
Sampled by: *GC* Date: *25-Aug-97* Time: *13:00*
Analyzed by: *DC* Date: *27-Aug-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>1121</i>	<i>ug/kg</i>	<i>200</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>20116</i>	<i>ug/kg</i>	<i>200</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>2594</i>	<i>ug/kg</i>	<i>200</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>48297</i>	<i>ug/kg</i>	<i>200</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>10358</i>	<i>ug/kg</i>	<i>200</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>82486</i>		<i>ug/kg</i>

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

Techniques of Environmental Investigation with the P.O. Box 2606

↑
N

9-8-97 @ 1110

Breech L #685E

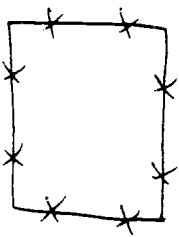
Caulkins

(P) 11-26N-6W

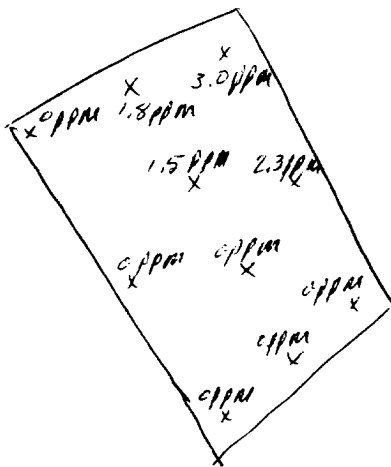
Rio Arriba

Sample # 9709081110

Land farm field headspace 5.0 ppm



SEP



2' - 10"

MH

15
BBL

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-Sep-97*
COC No.: *5667*
Sample No.: *16100*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #685E Landfarm*
Project Location: *9709081110; Composite*
Sampled by: *RH* Date: *8-Sep-97* Time: *11:10*
Analyzed by: *DC/HR* Date: *10-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>	36	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	189	5.7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	87	92	(70-130)	5	20%

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

Approved by: *[Signature]*
Date: *9/15/97*

P.O. BOX 2606 • FARMINGTON, NM 87499