

District I
P.O. Box 1990 Hobbs, NM
DEPUTY OIL & GAS INSPECTOR
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

RECEIVED
JUL 31 1993

OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Caulkins) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Breech #354

Location: Unit H Sec 24 T 26 N R 7 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: 200'

Direction from reference: 20 Degrees ☒ East North ☐
of ☐ West South ☒

Depth to Ground Water:

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

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	20

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

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)	10

RANKING SCORE (TOTAL POINTS): 30

Breach #354

Date Remediation Started: 6/11/97

Date Completed: 6/12/97

Remediation Method:

Excavation

☒

Approx. Cubic Yard

476

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

300

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 21' X 34' X 18' 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

18'

Final Pit Closure Sampling:

Sample Location

Closure soil sample was not taken. See attached excavation work sheet and groundwater report.

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

Sample depth

Sample date

Sample time

Sample Results

Benzene (ppm)

Total BTEX (ppm)

Field headspace (ppm)

TPH (ppm)

Method

Vertical Extent (ft)

Risk Analysis 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 July 27, 1998

SIGNATURE

Maureen Gannon

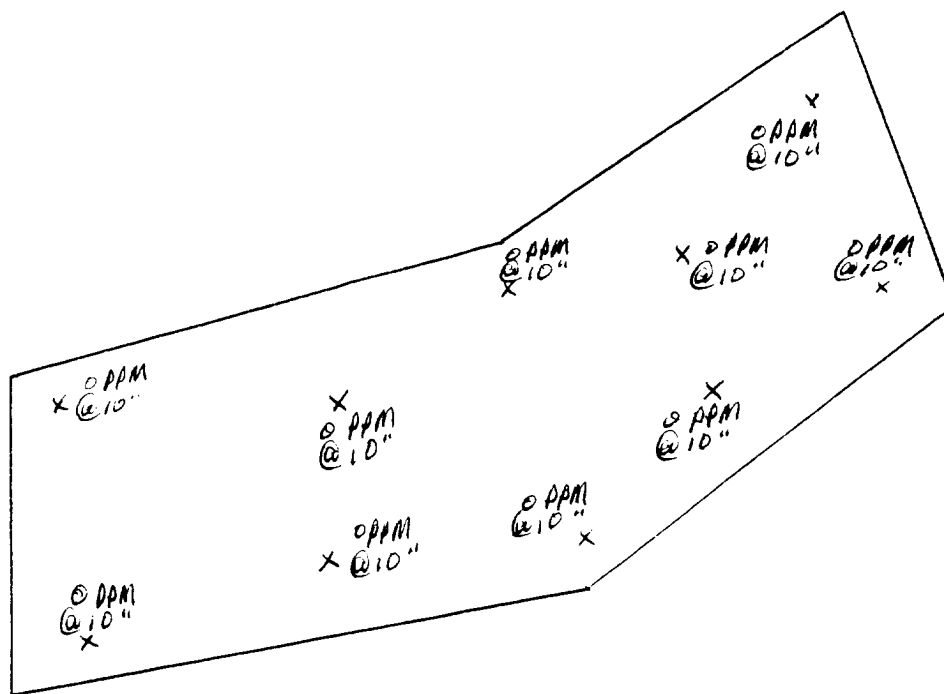
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

6-11-97

Excavation Work Sheet						
Well Name	Operator	S	T	R	UI	
Breach #354	Cantkins	24	260	7W	H	
Pit Dimensions at Start		Excavation Dimensions at End				
20X20X3		21X34X18				
Excavated Cu. Yds.	Overburden Cu. Yds.			Spoil Cu. Yds.		
474	176			300		
PIT PID READINGS						
Feet	Center	N. Wall	S. Wall	E. Wall	W. Wall	Soil Type
3'	467	0	0	0	0	sand/clay
6'	822	0	0	0	0	sand/clay
9'	222	0	0	0	0	sand/clay
12'	265	0		0	0	"
15'	148	0	5.8	0	0	sand/clay
18'	153	0			0	sand/clay
22'	29					sand
Composite Sample #						
Location		Depth		PID Reading		
North Wall						
South Wall						
East Wall						
West Wall						
Pit Bottom						
Land Farm Location:		On location				
Back Fill Location:		Bem wash at Large School Ho-ka 1.0 miles NW				
Comments:						

B/L/GA7
B/L/GA
BAN

↑
N



Breech #354 Landfarm

7-7-97

@ 0850

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

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.: *5184*
Sample No.: *15253*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech #354 Landfarm***

Project Location: ***9707070850; 10pt. Composite***

Sampled by: *RH* Date: *7-Jul-97* Time: *8:50*

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>10</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

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ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
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Project Location: ***9707070850; 10pt. Composite***

Sampled by: *RH* Date: *7-Jul-97* Time: *8:50*

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>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	5	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	4	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	9	ug/kg	1	ug/kg
<i>o-Xylene</i>	3	ug/kg	1	ug/kg
<i>TOTAL</i>	21	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: *7/17/97*

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PNMGS Well Site: Breech #354

Groundwater Site Summary Report

Copies: WFS(1)
Operator (1)
NMOCD District Office (1)
NMOCD Santa Fe (1)

Month/Year: July 1998

Operator: Caulkins

Sec: 24 **Twn:** 26N **Rng:** 7W **Unit:** H

Canyon: Largo

Vulnerable Class: Expanded

OCD Ranking: 30

Lead Agency: NMOCD

Activities:

On June 11, 1997, PNM commenced excavation of their former pit location at the Breech #354. At 18 feet below ground surface, groundwater was encountered. PNM was unable to obtain a groundwater sample from the bottom of the excavation due to sloughing of the sidewalls. After the excavation was complete, the pit was backfilled. No final closure soil sample was collected due to the presence of groundwater; however, during excavation, PNM conducted PID measurements at successive depths along the sidewalls as documented in the attached Excavation Work Sheet.

PNM returned to the Breech #354 and installed a groundwater monitoring well (MW-2) in the center of the former pit. The well was sampled and delivered to OnSite Technologies, Farmington, New Mexico for analysis of BTEX using EPA Method 8020. Laboratory analysis indicated that BTEX concentrations in the well are below WQCC standards (see attached results from OnSite Technologies dated August 6, 1997).

Further Action:

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of our former pit at the Breech 354 well site. A sample from MW-2 in the center of the pit area indicates that groundwater is clean at the site.

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: 18-Aug-97
COC No.: 5646
Sample No.: 15689
Job No.: 2-1000


Project Name: *PNM Gas Services - Breech 354*
Project Location: *9708061500; MW-2*
Sampled by: MG/MS
Analyzed by: DC
Sample Matrix: *Liquid*

Date: 7-Aug-97 Time: 14:20
Date: 15-Aug-97

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	4	ug/L	1	ug/L
<i>Toluene</i>	44	ug/L	1	ug/L
<i>Ethylbenzene</i>	33	ug/L	1	ug/L
<i>m,p-Xylene</i>	145	ug/L	1	ug/L
<i>o-Xylene</i>	73	ug/L	1	ug/L
<i>TOTAL</i>	300	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: 
Date: 8/18/97

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