

District **DEPUTY OIL & GAS INSPECTOR**
P.O. Box 1000, Tulsa, Oklahoma

District II
P O Drawer DD, Artesia, NM 88211

District III
1000 Rio Brazos Rd. Aztec NM 87410

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: <u>PNM Gas Services (Caulkins)</u>		Telephone: <u>324-3764</u>										
Address: <u>603 W. Elm Street Farmington, NM 87401</u>												
Facility or Well Name: <u>Breech A #173</u>												
Location:	Unit <u>L</u>	Sec <u>8</u>	T <u>26 N</u> R <u>6 W</u> County <u>Rio Arriba</u>									
Pit Type:	Separator <u> </u>	Dehydrator <u> </u>	Other <u> </u> Drip Riser <u> </u>									
Land Type:	BLM <u>✓</u>	State <u> </u>	Fee <u> </u> Other <u> </u>									
Pit Location:	Pit dimensions: length <u>20</u> width <u>20</u> depth <u>3</u>											
(Attach diagram)	Reference:	wellhead <u>✓</u>	other <u> </u>									
	Footage from reference: <u>60'</u>											
	Direction from reference: <u>80</u> Degrees <u>✓</u> East <u> </u> North <u> </u>											
		<u> </u> West	South <u>✓</u>									
Depth to Ground Water: <table border="0"> <tr> <td>Less than 50 feet</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>50 feet to 99 feet</td> <td>(10 points)</td> <td></td> </tr> <tr> <td>Greater than 100 feet</td> <td>(0 points)</td> <td><u>0</u></td> </tr> </table>				Less than 50 feet	(20 points)		50 feet to 99 feet	(10 points)		Greater than 100 feet	(0 points)	<u>0</u>
Less than 50 feet	(20 points)											
50 feet to 99 feet	(10 points)											
Greater than 100 feet	(0 points)	<u>0</u>										
<small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>												
Wellhead Protection Area: <table border="0"> <tr> <td>Yes</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>No</td> <td>(0 points)</td> <td><u>0</u></td> </tr> </table>				Yes	(20 points)		No	(0 points)	<u>0</u>			
Yes	(20 points)											
No	(0 points)	<u>0</u>										
<small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>												
Distance to Surface Water: <table border="0"> <tr> <td>Less than 200 feet</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>200 feet to 1,000 feet</td> <td>(10 points)</td> <td></td> </tr> <tr> <td>Greater than 1,000 feet</td> <td>(0 points)</td> <td><u>0</u></td> </tr> </table>				Less than 200 feet	(20 points)		200 feet to 1,000 feet	(10 points)		Greater than 1,000 feet	(0 points)	<u>0</u>
Less than 200 feet	(20 points)											
200 feet to 1,000 feet	(10 points)											
Greater than 1,000 feet	(0 points)	<u>0</u>										
<small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>												
RANKING SCORE (TOTAL POINTS):			<u>0</u>									

Breach A #173

Date Remediation Started: 7/16/97

Date Completed: 7/17/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 50

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 50

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 13' X 15' X 7' 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 5' walls and 7' bottom.

Sample date 7/17/97 Sample time 10:00:00 AM

Sample Results

Benzene (ppm) 0.0010

Total BTEX (ppm) 0.5250

Field headspace (ppm)

TPH (ppm) < 5.00 Method 8015A

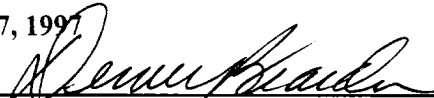
Vertical Extent (ft) Risk Assessment form attached Yes No

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

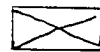
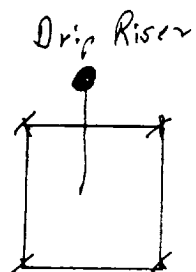
Breach A #173

Caulkins 0:1

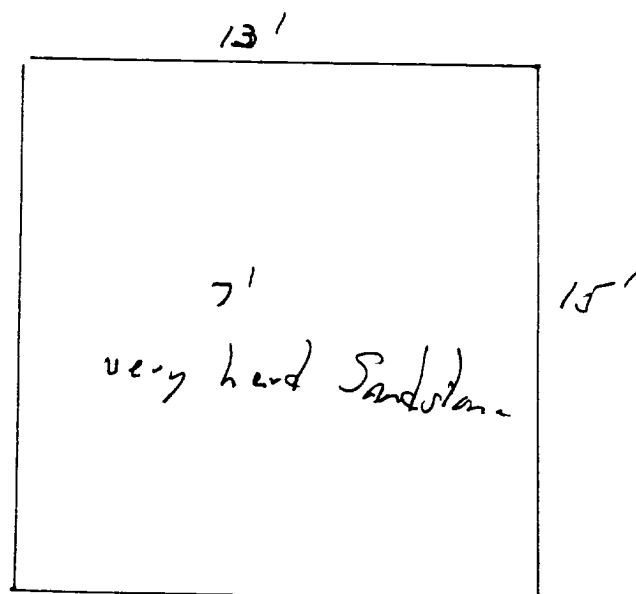
Sec. 8, 26N, 6W, L

7-16-97

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: *24-Jul-97*
COC No.: *5915*
Sample No.: *15373*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #173*
Project Location: *9707171000; Composite, 4 Walls @ 5' and Bottom @ 7'*
Sampled by: GC Date: *17-Jul-97* Time: *10:00*
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>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.: 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	193	3.7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	94	96	(70-130)	1	20%

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

Approved by: *[Signature]*
Date: *7/24/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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.: *5915*
Sample No.: *15373*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #173*
Project Location: *9707171000; Composite, 4 Walls @ 5' and Bottom @7'*
Sampled by: *GC* Date: *17-Jul-97* Time: *10:00*
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>	<i>1</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>37</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>53</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>319</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>115</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>525</i>		<i>ug/kg</i>

ND - Not Detected at Limit of Quantitation

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

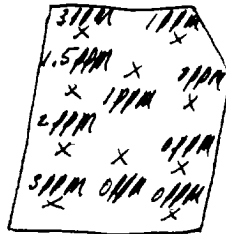
Approved by: *Das*
Date: *7/27/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

N

NH
□

WH
⊗



4" to 8"

Breech A #173
Caulkins Oil Co.

(L) 8-26N-6W

Land farm composite sample # 9709071030

8-7-47 @ 1030

Field Head Space 1 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: *13-Aug-97*
COC No.: *5196*
Sample No.: *15692*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech A #173 Landfarm*
Project Location: *9708071030; Composite Sample*
Sampled by: *RH* Date: *7-Aug-97* Time: *10:30*
Analyzed by: *HR/DC* Date: *11-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>7</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>215</i>	<i>7.4</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>84</i>	<i>85</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: *[Signature]*
Date: *8/13/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -