

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

District II
P.O. Drawer DD, Artesia, NM 88221
District III
1000 Rio Brazos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

FEB 26 1998

Approved

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: Breech D #140			
Location:	Unit A	Sec 11	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:		107'	
Direction from reference:		30 Degrees	East North
		West	South
Depth to Ground Water:		Less than 50 feet (20 points)	
		50 feet to 99 feet (10 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Greater than 100 feet (0 points)	0
Wellhead Protection Area:		Yes (20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		No (0 points)	0
Distance to Surface Water:		Less than 200 feet (20 points)	
		200 feet to 1,000 feet (10 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Greater than 1,000 feet (0 points)	0
RANKING SCORE (TOTAL POINTS):			0

Breach D #140

Date Remediation Started: 9/4/97

Date Completed: 9/4/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 249

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 249

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 24' X 20' X 14' 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

14'

Sample date

9/4/97

Sample time

1:30:00 PM

Sample Results

Benzene (ppm) < 0.0500

Total BTEX (ppm) 9.4910

Field headspace (ppm)

TPH (ppm)

423.00

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

↑
N

9-4-97 - @ 1030

Breach D #140

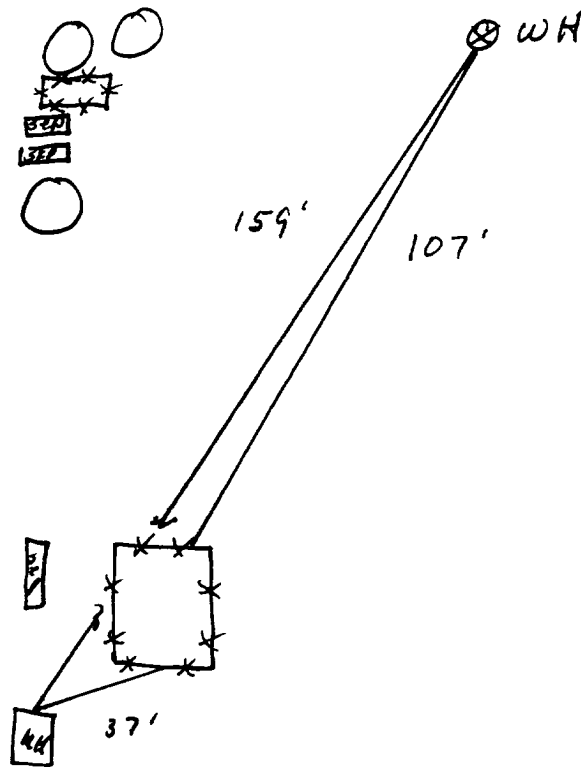
Caulkins

(A) 11-26N-6W

Rio Arriba

30° W of S

107' from W.H.



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: *10-Sep-97*
COC No.: *5662*
Sample No.: *16064*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #140*
Project Location: *9709041330; Excavation Composite Sample*
Sampled by: *RH* Date: *4-Sep-97* Time: *13:30*
Analyzed by: *DC/HR* Date: *9-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>423</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>190</i>	<i>5.1</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>82</i>	<i>77</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *9/10/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

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: *9-Sep-97*
COC No.: *5662*
Sample No.: *16064*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech D #140*
Project Location: *9709041330; Excavation Composite Sample*
Sampled by: *RH* Date: *4-Sep-97* Time: *13:30*
Analyzed by: *DC* Date: *8-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>	136	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	498	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	7269	ug/kg	50	ug/kg
<i>o-Xylene</i>	1588	ug/kg	50	ug/kg
	<i>TOTAL</i>	9491	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: *9/9/97*

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— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

↑
N

9-24-97 @ 0845

Breach D #140

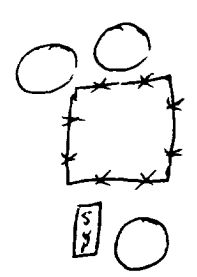
Caulkins

(A) 11-26N-6W

Rio Arriba

Sample # 4709240845

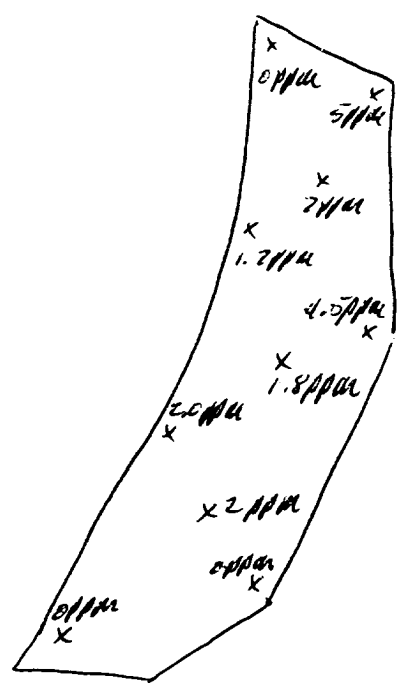
Land farm field head space: 8 ppm



DH

MH

WH
⊗



2'-12"

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: *30-Sep-97*
COC No.: *5674*
Sample No.: *16311*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Breech D #140 Landfarm***

Project Location: ***9709240845; Composite***

Sampled by: *RH* Date: *24-Sep-97* Time: *8:45*

Analyzed by: *HR/DC* Date: *29-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>	121	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	182	9.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	89	98	(70-130)	9	20%

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

Approved by: *[Signature]*
Date: *9/30/97*

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