

Dennis S. Frost
DEPUTY OIL & GAS INSPECTOR

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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

MAR 28 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Cain #6

Location: Unit: J Sec. 15 T. 28 N R. 10 W County San Juan

Pit Type: Separator Dehydrator Other No PNM Equipment

Land Type: BLM ☒ State Fee Other

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

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 70'

Direction from reference: 32 Degrees ☐ East of North ☒
☒ West of 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) 0

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)

RANKING SCORE (TOTAL POINTS):

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OIL CONSERVATION DIVISION

Date Remediation Started: 9/16/96

Remediation Method:

(Check all appropriate sections)

Excavation ☒
Landfarmed ☒
Other _____

Date Completed: 9/18/96

Approx. Cubic Yard 150
Amount Landfarmed (cubic yds) 130

Remediation Location:

(i.e., landfarmed onsite, name and location of offsite facility)

Onsite ☒ Offsite _____

Backfill Material Location: _____

General Description of Remedial Action:

Excavated contaminated soil to pit size 27'x25'x6' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

Ground Water Encountered:

No ☒ Yes _____ Depth _____

Final Pit Closure Sampling:

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

Sample Location 5 pt composite-4 side walls and center of pit bottom

Sample depth 6'

Sample date 9/16/96

Sample Results Sample time 12:35:00 PM

Benzene (ppm) < 0.0002

Total BTEX (ppm) 0.3461

Field headspace (ppm) _____

TPH < 5.0 Method 8015A

Vertical Extent (ft) _____

Risk Assessment form attached Yes _____ No ☒

(If yes, attach sample results)

Ground Water Sample:

Yes _____ No ☒

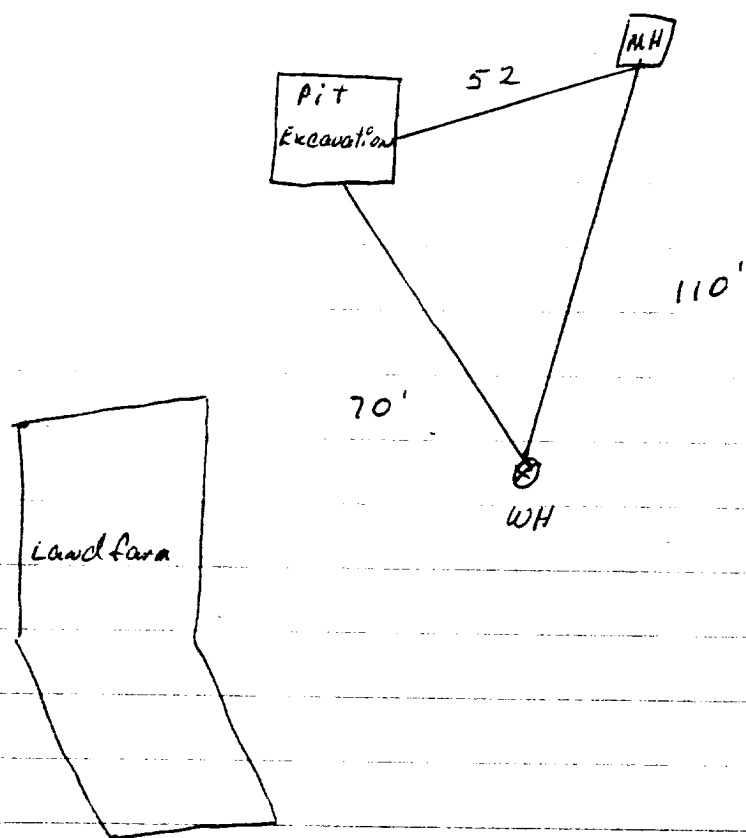
HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE January 22, 1997
SIGNATURE Denver Bearden

PRINTED NAME AND TITLE
Denver Bearden
Administrator III

Coin #6

↑
N



OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *17-Sep-96*
 COC No.: *4881*
 Sample No. *12169*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Gain #6*
 Project Location: *9609161235; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *16-Sep-96* Time: *12:35*
 Analyzed by: *HR/DC* Date: *17-Sep-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0489-QC*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>100</i>	<i>103</i>	<i>3.0</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<i>Diesel Range (C10-C28)</i>	<i>91</i>	<i>81</i>	<i>(70-130)</i>	<i>8</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *9/17/96*

P.O. BOX 2606 • FARMINGTON, NM 87499
 - TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

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

Date: 17-Sep-96
COC No.: 4881
Sample No.: 12169
Job No.: 2-1000

Project Name: *PNM Gas Services - Cain #6*
Project Location: *9609161235; Pit Excavation Composite Sample*
Sampled by: RH Date: 16-Sep-96 Time: 12:35
Analyzed by: HR Date: 17-Sep-96
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<0.2	ug/kg	0.2	ug/kg
<i>Toluene</i>	38.5	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	28.2	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	222.8	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	56.6	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	346.1	ug/kg	

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

Approved by: *[Signature]*
Date: 9/17/96

Cain # 6

10-23-96

Meridian Oil

Sec. 15, 28N, 10W

Land Farm: On location

Composite sample # 9610230945

Soil vapor headspace PID reading: 6.9 ppm

0.	.30
.40	.40
1.1	.50

⊗

2"-12" depth

OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *25-Oct-96*
COC No.: *5090*
Sample No. *12680*
Job No. *2-1000*

Project Name: *PNM Gas Services - Cain #6 Landfarm*
Project Location: *9610230945; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *23-Oct-96* Time: *9:45*
Analyzed by: *DC/HR* Date: *25-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0489-QC

Calibration Check

<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>100</i>	<i>92</i>	<i>7.6</i>	<i>15%</i>

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>114</i>	<i>104</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: 
Date: *10/25/96*