

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

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

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Zachry #23

Location: Unit: M Sec. 34 T. 29 N R. 10 W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other No PNM Equipment on Site

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 18 width 18 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 68'

Direction from reference: 80 Degrees ☐ East ☐ North ☐
☒ 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) 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)

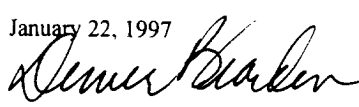
Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

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OIL CON. DIV.
DIST. 3

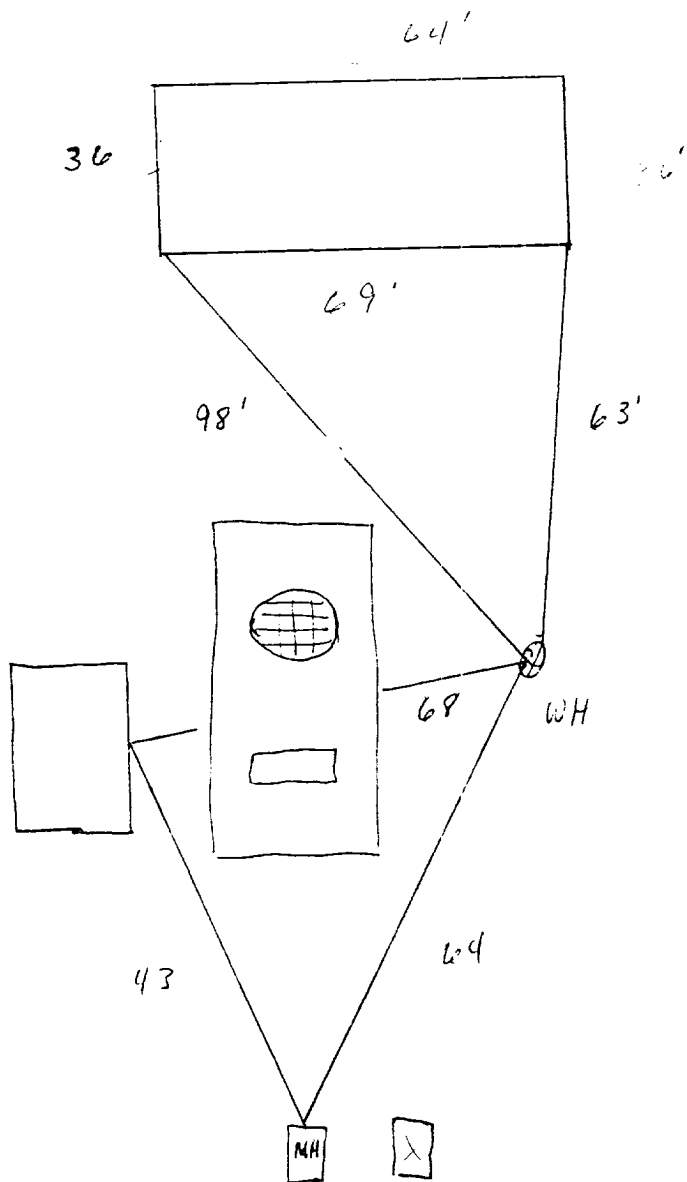
Date Remediation Started: <u>8/28/96</u>		Date Completed: <u>8/29/96</u>	
Remediation Method: <small>(Check all appropriate sections)</small>	Excavation <u>X</u>	Approx. Cubic Yard	<u>94</u>
	Landfarmed <u>X</u>	Amount Landfarmed (cubic yds)	<u>94</u>
	Other _____		
Remediation Location: <small>(i.e., landfarmed onsite, name and location of offsite facility)</small>	Onsite <u>X</u>	Offsite	_____
Backfill Material Location: _____			
General Description of Remedial Action: <u>Excavated contaminated soil to pit size 19'x19'x7' 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.</u> _____ _____ _____ _____			
Ground Water Encountered:	No <u><input checked="" type="checkbox"/></u>	Yes <u><input type="checkbox"/></u>	Depth _____

Final Pit Closure Sampling: <small>(if multiple samples, attach sample result and diagram of sample locations and depths.)</small>	Sample Location	<u>5 pt composite-4 side walls and center of pit bottom</u>		
	Sample depth	<u>7'</u>		
	Sample date	<u>8/28/96</u>	Sample time	<u>11:45:00 AM</u>
	Sample Results			
	Benzene (ppm)		<u>0.0257</u>	
	Total BTEX (ppm)		<u>20.3030</u>	
	Field headspace (ppm)		_____	
	TPH	<u>99.4</u>	Method	<u>8015A</u>
Vertical Extent (ft) _____	Risk Assessment form attached		Yes <u><input type="checkbox"/></u>	No <u><input checked="" type="checkbox"/></u>
Ground Water Sample:	Yes <u><input type="checkbox"/></u>	No <u><input checked="" type="checkbox"/></u>	(If yes, attach sample results)	

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF			
DATE	<u>January 22, 1997</u>	PRINTED NAME	<u>Denver Bearden</u>
SIGNATURE		AND TITLE	<u>Administrator III</u>

2ndwy #23

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: *3-Sep-96*
COC No.: *4956*
Sample No. *11944*
Job No. *2-1000*

Project Name: *PNM Gas Services - Zachry #23*
Project Location: *9608281145; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *28-Aug-96* Time: *11:45*
Analyzed by: *DC* Date: *3-Sep-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>99.4</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>106</i>	<i>5.9</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>104</i>	<i>96</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *9/3/96*

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- 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: *30-Aug-96*
COC No.: *4956*
Sample No. *11944*
Job No. *2-1000*

Project Name: *PNM Gas Services - Zachry #23*
Project Location: *9608281145; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *28-Aug-96* Time: *11:45*
Analyzed by: *HR* Date: *29-Aug-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>Benzene</i>	<i>25.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>2756.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>1633.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>13207.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>2679.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>20303.0</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*
Date: *8/30/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Zachry #23
Meridian Oil
Sec 34, 29N, 10W

10-1-96

Land Farm: On location
Composite sample # 9610011400
soil vapor head space = 58.6 ppm

4.1	2.8	3.9
1.8	5.3	6.1

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: *3-Oct-96*
 COC No.: *5076*
 Sample No. *12400*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Zachry #23 Landfarm*
 Project Location: *9610011400; 6pt. Composite, 2"-12" depth*
 Sampled by: *GC* Date: *1-Oct-96* Time: *14:00*
 Analyzed by: *DC/HR* Date: *3-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>24.8</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0489-QC

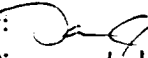
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<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>100</i>	<i>100</i>	<i>0.2</i>	<i>15%</i>

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>99</i>	<i>100</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: 
 Date: *10/3/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -