

District I
P.O. Box 999, Santa Fe, NM 87504
District II
P.O. Box 999, Santa Fe, NM 87504
District III
1000 Rio Brazos Road, Santa Fe, NM 87510

Donny E. Faust
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RECEIVED
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OIL CON. DIV.
DIST. 3

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

OCT 11 9 1996

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Meridian)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Grenier #6			
Location:	Unit: <u>K</u>	Sec. <u>20</u>	T. <u>31 N</u> R. <u>11 W</u> County <u>San Juan</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Land Type:	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <input type="checkbox"/>
Pit Location:	Pit dimensions: length <u>15</u> ' width <u>15</u> ' depth <u>3</u> '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
Footage from reference: <u>74'</u>			
Direction from reference: <u>5</u> Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> North <input checked="" type="checkbox"/>			
West <input type="checkbox"/> South <input type="checkbox"/>			
Depth to Ground Water:		(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)		(10 points)	
Less than 50 feet		(0 points)	
50 feet to 99 feet		0	
Greater than 100 feet			
Wellhead Protection Area:		(20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		(0 points)	
Yes		0	
No			
Distance to Surface Water:		(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		(10 points)	
Less than 200 feet		(0 points)	
200 feet to 1,000 feet		0	
Greater than 1,000 feet			
RANKING SCORE (TOTAL POINTS):		0	

Date Remediation Started: 3/28/96 **Date Completed:** 3/28/96

Remediation Method: Excavation X **Approx. Cubic Yard** 283

(Check all appropriate sections) Landfarmed X **Amount Landfarmed (cubic yds)** 283

Other _____

Remediation Location: Onsite _____ Offsite Grenier #13 20-31N-11W

(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 25'x25'x18' and landfarmed soil offsite within a bermed area at adpth of 6" to 12". Soil will be aerated by plowing/disking until soil meets 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 18'

Sample date 3/28/96 Sample time 11:50:00 AM

Sample Results

Benzene (ppm) 0.0045

Total BTEX (ppm) 4.3107

Field headspace (ppm) _____

TPH 98.00 Method 418.1

Vertical Extent (ft) _____ Risk Assessment form attached Yes ☐ No ☒

Ground Water Sample: Yes ☐ No ☒ (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

7-26-96

SIGNATURE

Dennis BeardenPRINTED NAME
AND TITLE

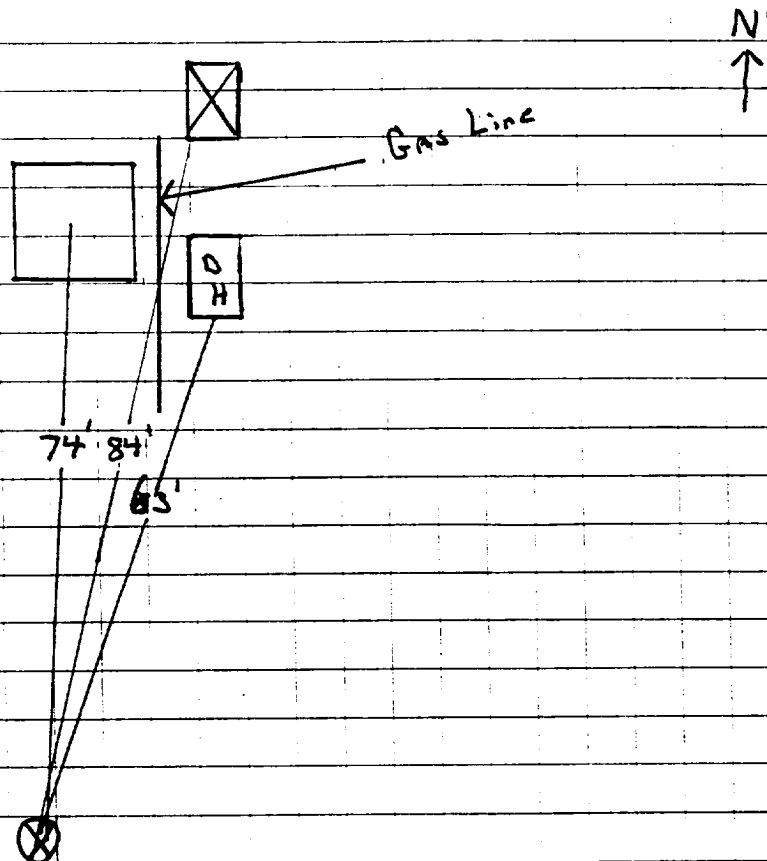
Grenier #6

3-28-96

Meridian Oil

Sec. 20, T31N, R11W

1650' FSL + 1650' FWL



OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

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

Date: *2-Apr-96*
COC No.: *4596*
Sample No. *10518*
Job No. *2-1000*

Project Name: *PNM Gas Services - Grenier #6*
Project Location: *9603281150; 5pt. Composite, 4 Walls & Bottom, 18'*
Sampled by: *GC* Date: *28-Mar-96* Time: *11:50*
Analyzed by: *HR* Date: *2-Apr-96*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
10518-4596	PNM Gas Services - Grenier #6 9603281150; 5pt. Composite, 4 Walls & Bottom, 18'	98 mg/kg

Quality Assurance Report

Laboratory Identification	Analyzed Value	Acceptable Range	Units of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	887	828 - 1024	mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*

Date: *4/2/96*

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OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

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

Date: *1-Apr-96*
COC No.: *4596*
Sample No.: *10518*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Grenier #6*
Project Location: *9603281150; 5pt. Composite, 4 Walls & Bottom, 18'*
Sampled by: *GC* Date: *28-Mar-96* Time: *11:50*
Analyzed by: *DC* Date: *1-Apr-96*
Type of Sample: *Soil*

Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i>4.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>94.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>257.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>3143.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>810.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>		<i>4310.7</i>		<i>ug/kg</i>

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

Approved by: *JaG*

Date: *4/1/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Grenier #6
Meridian Oil
Sec. 20, T31N, R11W

4-25-96

+

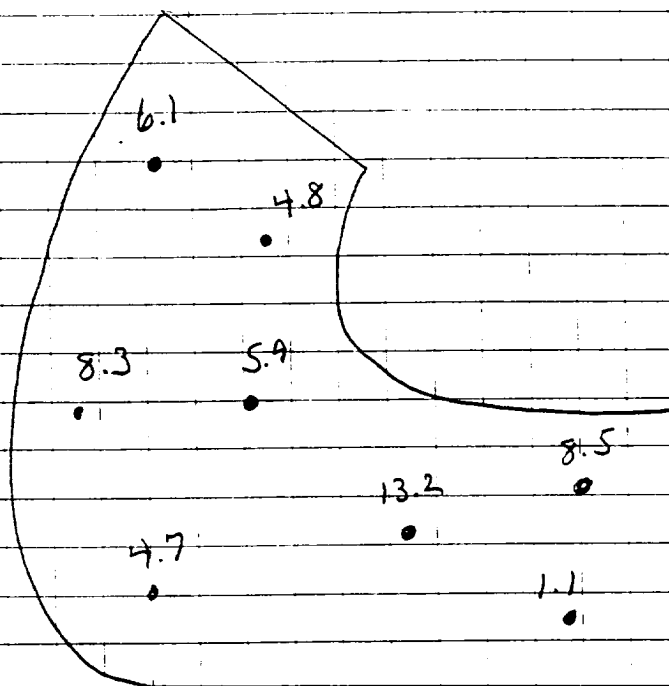
Grenier #13 = both same location.

Land Farm = 283 yds.

Composite sample #9604251020

8 pt. composite

Soil vapor head-space reading = 81 ppm



sample depths between 2" & 12"

OFF: (505) 325-8786



LAB: (505) 325-5667

Diesel Range Organics EPA 8015-Modified

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

Date: *30-Apr-96*
COC No.: *4626*
Sample No. *10738*
Job No. *2-1000*

Project Name: *PNM Gas Services - Grenier #6 Land Farm*
Project Location: *9604251020; 6pt. Composite, 2"-12" deep*
Sampled by: *GC* Date: *25-Apr-96* Time: *10:20*
Analyzed by: *DC* Date: *29-Apr-96*
Sample Matrix: *Soil*

Laboratory Analysis

<i>Analyte</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.: *0446-STD*

Calibration Check

<i>Analyte</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>2,000</i>	<i>1,974</i>	<i>1.3</i>	<i>15%</i>

Matrix Spike

<i>Analyte</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>101</i>	<i>103</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: *4/30/96*

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