

District I
P.O. Box 19801, Albuquerque, NM 87119

District II
P.O. Drawer 100, Santa Fe, NM 87501

District III
1000 Rio Brazos Rd. Aztec, NM 87412

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

FEB 28 1997

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
OCT 31 1996

OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (SRC) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Reid #15

Location: Unit: D Sec. 18 T. 28 N R. 9 W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other ☐ Drip ☐

Land Type: BLM ☐ State ☐ Fee ☒ Other ☐

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

(Attach diagram) **Reference:** wellhead ☒ other ☐

Footage from reference: 230'

Direction from reference: 5 Degrees ☒ East ☐ North ☒
of
☐ 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)	10

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)

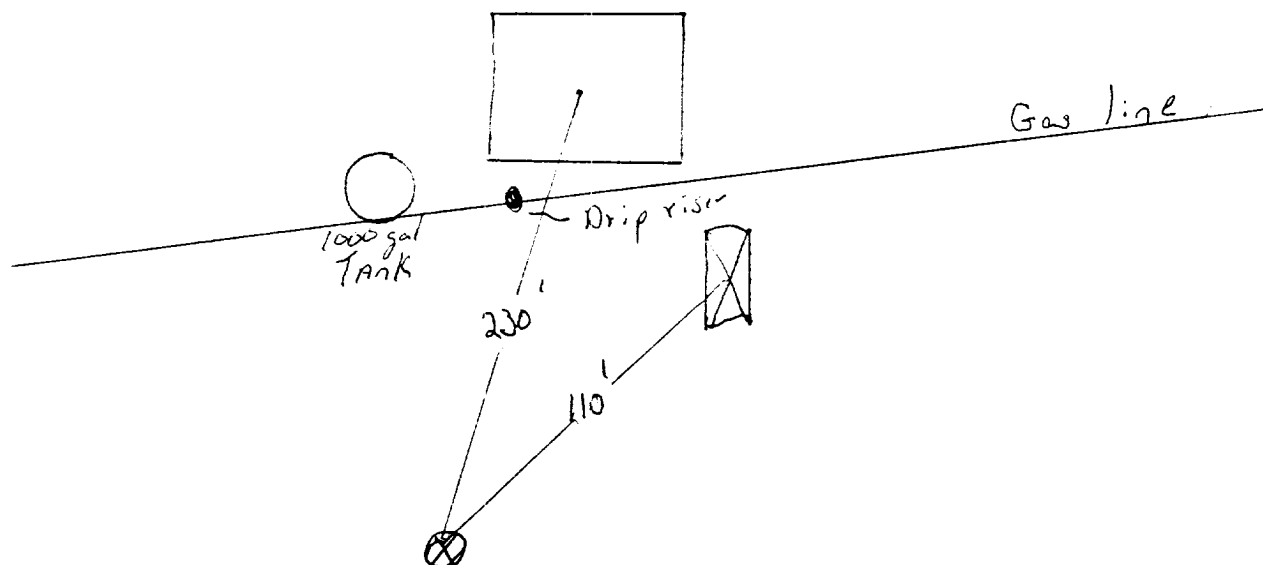
Less than 200 feet	(20 points)	
200 feet to 1,000 feet	(10 points)	
Greater than 1,000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 10

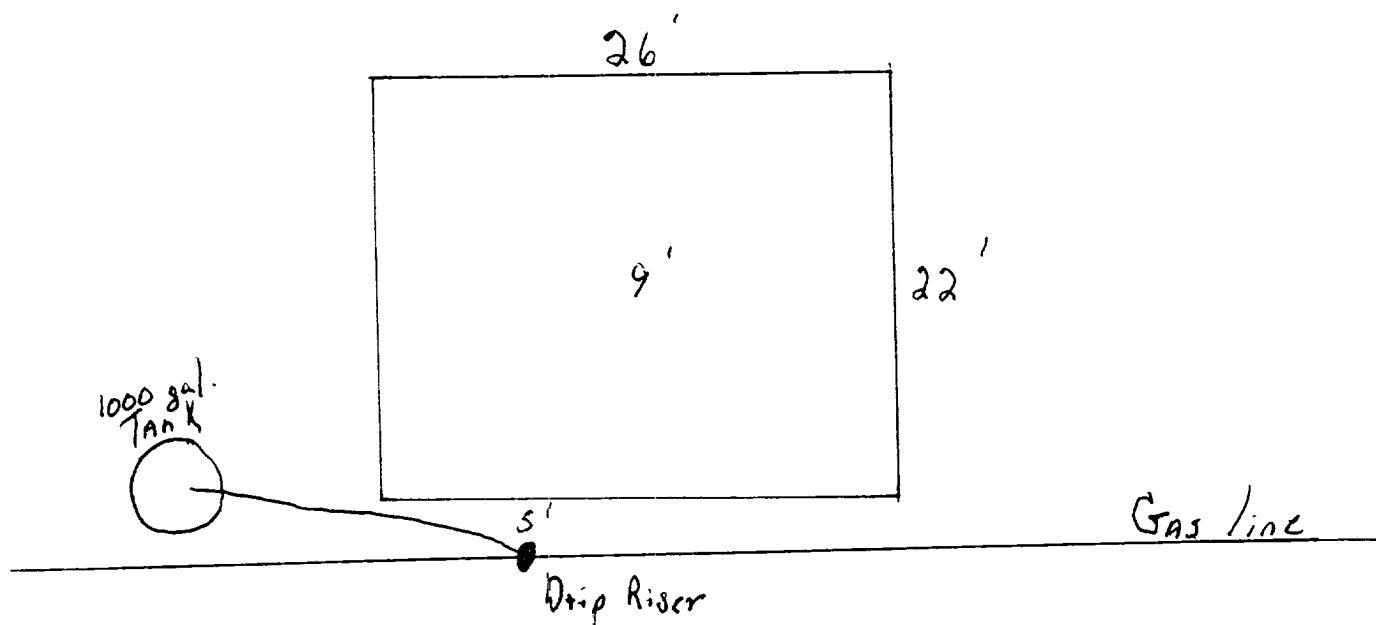
Date Remediation Started:		<u>8/13/96</u>		Date Completed:		<u>8/14/96</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>X</u>	Approx. Cubic Yard		<u>190</u>		
	Landfarmed	<u>X</u>	Amount Landfarmed (cubic yds)		<u>190</u>		
	Other _____						
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)		Onsite	<u>X</u>	Offsite	_____		
Backfill Material Location: _____							
General Description of Remedial Action:							
Excavated contaminated soil to pit size of 26'x22'x9' 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	<u><input checked="" type="checkbox"/></u>	Yes	<u><input type="checkbox"/></u>	Depth	_____
Final Pit Closure Sampling:		Sample Location <u>5 pt composite-4 side walls and center of pit bottom</u>					
(if multiple samples, attach sample result and diagram of sample locations and depths.)		Sample depth <u>9'</u>					
		Sample date <u>8/13/96</u>		Sample time <u>2:30:00 PM</u>			
		Sample Results					
		Benzene (ppm)		<u>0.4611</u>			
		Total BTEX (ppm)		<u>39.7699</u>			
		Field headspace (ppm)		_____			
		TPH <u>865.60</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)	
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF</p> <p>DATE <u>October 25, 1996</u> PRINTED NAME <u>Maureen Gannon</u></p> <p>SIGNATURE <u>Maureen Gannon</u> AND TITLE <u>Environmental Engineer</u></p>							

REID #15
MERIDIAN OIL
Sec. 18, 28N, 9W, D

PIT DIMENSIONS AT START: 20X20X3



EXCAVATION DIMENSIONS AT END: 26X22X9=190 YDS.



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: *14-Aug-96*
COC No.: *4966*
Sample No. *11772*
Job No. *2-1000*

Project Name: *PNM Gas Services - Reid #15 Drip*
Project Location: *9608131430; 5pt. Composite, 4 Walls @ 6' and Bottom @ 9'*
Sampled by: GC Date: *13-Aug-96* Time: *14:30*
Analyzed by: DC Date: *14-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>Diesel Range Organics (C10 - C28)</i>	<i>865.6</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0479-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>99</i>	<i>0.8</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>112</i>	<i>114</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: *JaC*
Date: *8/14/96*

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: *14-Aug-96*
COC No.: *4966*
Sample No. *11772*
Job No. *2-1000*

Project Name: *PNM Gas Services - Reid #15 Drip*
Project Location: *9608131430; 5pt. Composite, 4 Walls @ 6' and Bottom @ 9'*
Sampled by: *GC* Date: *13-Aug-96* Time: *14:30*
Analyzed by: *DC* Date: *14-Aug-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>461.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>5489.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>4036.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>28814.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>967.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>		<i>39769.9</i>		<i>ug/kg</i>

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

Approved by: *Ja4*
Date: *8/14/96*

Reid # 15

9-12-96

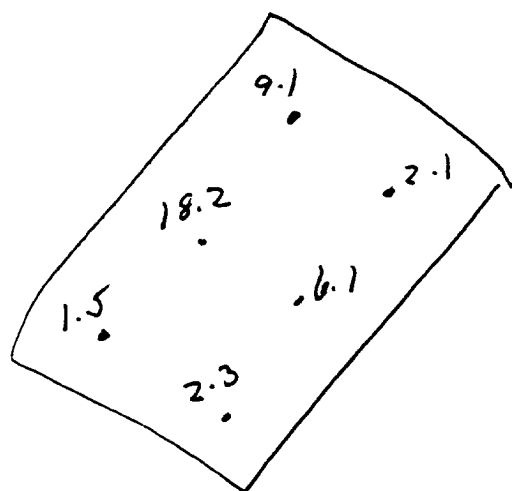
Meridian Oil

Sec. 18-28N, 9W

Land Farm: On Location

Composite sample # 9609120900 6 pt.

Soil Vapo-headspace PID reading = 30.1 ppm



2"-12" depth
sandstone



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: *16-Sep-96*
COC No.: *5041*
Sample No. *12145*
Job No. *2-1000*

Project Name: *PNM Gas Services - Reid #15 Landfarm*
Project Location: *9609120900; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *12-Sep-96* Time: *9:00*
Analyzed by: *HR* Date: *14-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>594.8</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>104</i>	<i>3.8</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>82</i>	<i>96</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *9/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -