

District I  
P.O. Box 198 Hobbs, NM

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. Drawn

*Denny L. Faust*  
**DEPUTY OIL & GAS INSPECTOR**

OIL CONSERVATION DIVISION

District III  
1000 Rio Brazos Rd, Aztec, NM 87409

FEB 28 1997

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**RECEIVED**  
OCT 31 1996

*Approved*

**PIT REMEDIATION AND CLOSURE REPORT**

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 #19

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

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: 100'

Direction from reference: 30 Degrees  East  West of North  South

Depth to Ground Water: Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 points) 0

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Wellhead Protection Area: Yes (20 points)  
No (0 points) 0

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)  
200 feet to 1,000 feet (10 points)  
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: 8/16/96 Date Completed: 8/16/96

Remediation Method: Excavation X Approx. Cubic Yard 130

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 80

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_  
(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 14'x14'x18' 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:

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 8/16/96 Sample time 1:30:00 PM

Sample Results

Benzene (ppm) < 0.0002

Total BTEX (ppm) 2.9408

Field headspace (ppm) \_\_\_\_\_

TPH 7.00 Method 8015A

Vertical Extent (ft) \_\_\_\_\_ Risk Assessment form attached Yes  No

Ground Water Sample: Yes  No  (If yes, attach sample results)

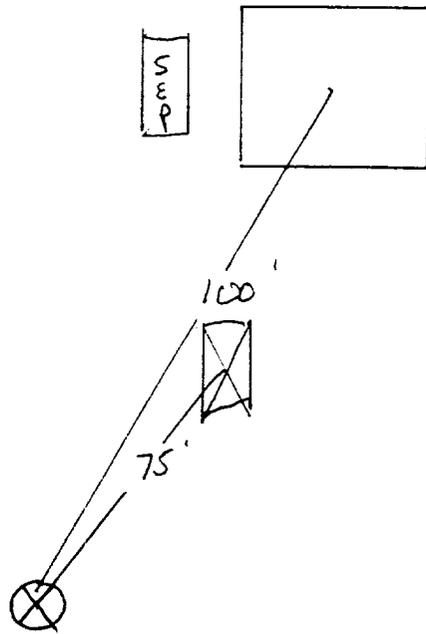
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 25, 1996  
SIGNATURE Maureen Gannon

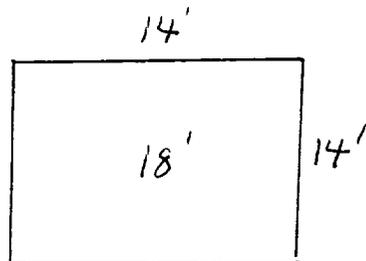
PRINTED NAME Maureen Gannon  
AND TITLE Environmental Engineer

REID #19  
MERIDIAN  
SEC. 18, 28N, 09W, B

PIT DIMENSIONS AT START: 20X20X3



EXCAVATION DIMENSIONS AT END : 14X14X18 = 130 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: *20-Aug-96*  
 COC No.: *4972*  
 Sample No. *11812*  
 Job No. *2-1000*

Project Name: *PNM Gas Services - Reid #19*  
 Project Location: *9608161330; 5pt. Composite*  
 Sampled by: *GC* Date: *16-Aug-96* Time: *13:30*  
 Analyzed by: *DC/HR* Date: *20-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>7.0</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>&lt; 5.0</i>	<i>ppm</i>	<i>100</i>	<i>104</i>	<i>4.3</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>88</i>	<i>101</i>	<i>(70-130)</i>	<i>10</i>	<i>20%</i>

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

Approved by: *[Signature]*  
 Date: *8/20/96*

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: *20-Aug-96*  
 COC No.: *4972*  
 Sample No.: *11812*  
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Reid #19*  
 Project Location: *9608161330; 5pt. Composite*  
 Sampled by: *GC* Date: *16-Aug-96* Time: *13:30*  
 Analyzed by: *HR* Date: *19-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>&lt;0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>41.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>257.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>2118.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>522.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>2940.8</i>		<i>ug/kg</i>

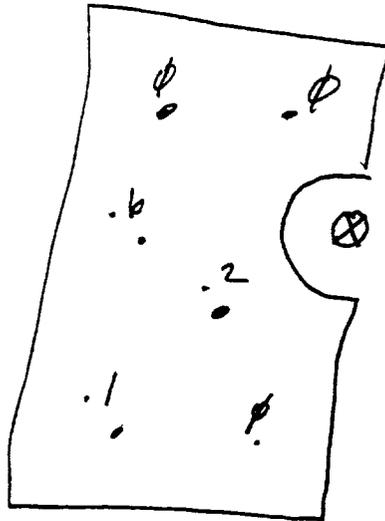
**Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Ja4*  
 Date: *8/20/96*

Reid # 19  
Meridian Oil  
Sec. 18, 28N, 9W

9-12-96

Landfarm: On location  
Composite sample # 9604120930 6 pt.  
Soil Vapor head space PID reading: 2.1 ppm



2"-12" depth  
sand

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.: *5032*  
 Sample No. *12135*  
 Job No. *2-1000*

Project Name: *PNM Gas Services - Reid #19 Landfarm*  
 Project Location: *9609120930; 6pt. Composite, 2"-12" depth*  
 Sampled by: *GC* Date: *12-Sep-96* Time: *9:30*  
 Analyzed by: *DC* Date: *13-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>33.0</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>&lt; 5.0</i>	<i>ppm</i>	<i>100</i>	<i>95</i>	<i>5.3</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*