

District I
P.O. Box 1580, Hobbs, NM

District II
P.O. Box 1580, Hobbs, NM
DEPUTY OIL AND GAS INSPECTOR

District III
1000 Rio Brazos Rd, El Paso, NM 87419
FEB 28 1997

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

| | | | |
|---|---|-------------------------------------|---|
| Operator: <u>PNM Gas Services (Meridian)</u> | | Telephone: <u>324-3764</u> | |
| Address: <u>603 W. Elm Street Farmington, NM 87401</u> | | | |
| Facility or Well Name: <u>Zachry #19E</u> | | | |
| Location: | Unit: <u>C</u> | Sec. <u>12</u> | T. <u>28 N</u> R. <u>10 W</u> County <u>San Juan</u> |
| Pit Type: | Separator <input type="checkbox"/> | Dehydrator <input type="checkbox"/> | Other <u>Drip</u> |
| 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>18</u> | width <u>18</u> | depth <u>4</u> |
| (Attach diagram) | Reference: | wellhead <input checked="" type="checkbox"/> | other <input type="checkbox"/> | |
| Footage from reference: | | <u>98'</u> | | |
| Direction from reference: | | <u>180</u> Degrees | <input checked="" type="checkbox"/> East | North <input checked="" type="checkbox"/> |
| | | | West | South <input type="checkbox"/> |

| | | | |
|---|-------------------------|-------------|----------|
| Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water) | Less than 50 feet | (20 points) | <u>0</u> |
| | 50 feet to 99 feet | (10 points) | |
| | Greater than 100 feet | (0 points) | |
| 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) | <u>0</u> |
| | No | (0 points) | |
| Distance to Surface Water: | | | |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | Less than 200 feet | (20 points) | <u>0</u> |
| | 200 feet to 1,000 feet | (10 points) | |
| | Greater than 1,000 feet | (0 points) | |
| RANKING SCORE (TOTAL POINTS): | | | <u>0</u> |

Date Remediation Started: 8/22/96 Date Completed: 8/23/96

Remediation Method: Excavation X Approx. Cubic Yard 225

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 225

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 19'x20'x16' 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 16'

Sample date 8/22/96 Sample time 3:15:00 PM

Sample Results

Benzene (ppm) < 0.0002

Total BTEX (ppm) 0.6899

Field headspace (ppm) _____

TPH 36.60 Method 8015A

Vertical Extent (ft) _____ Risk Assessment form attached Yes — No ✓

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

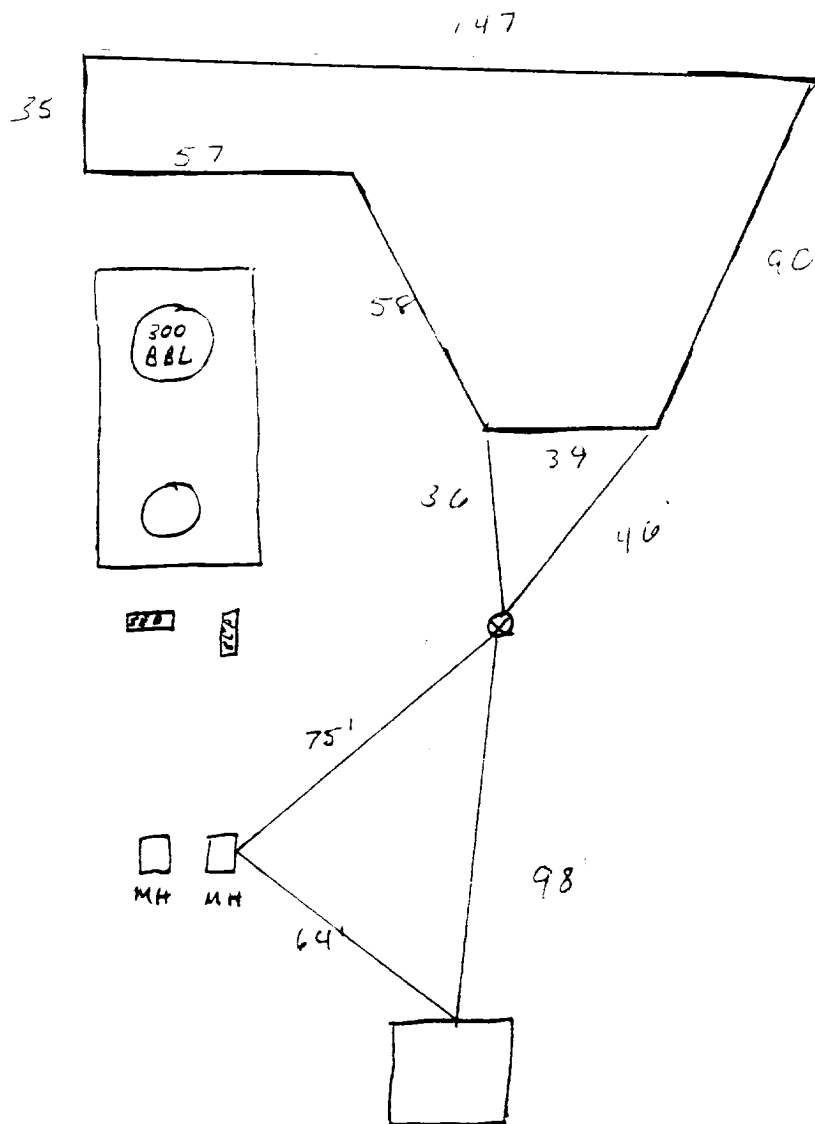
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 25, 1996

SIGNATURE Maureen Gannon

PRINTED NAME Maureen Gannon
AND TITLE Environmental Engineer

N
N





Diesel Range Organics

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

Date: *27-Aug-96*
 COC No.: *4950*
 Sample No. *11886*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Zachry #19E*
 Project Location: *9608221515; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *22-Aug-96* Time: *15:15*
 Analyzed by: *DC/BV* Date: *27-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>36.6</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>108</i> | <i>103</i> | <i>(70-130)</i> | <i>4</i> | <i>20%</i> |

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

Approved by: *[Signature]*

Date: *8/30/96*

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: *30-Aug-96*
COC No.: *4950*
Sample No.: *11886*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry #19E*
Project Location: *9608221515; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *22-Aug-96* Time: *15:15*
Analyzed by: *DC* Date: *30-Aug-96*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Result | Unit of Measure | Detection Limit | Unit of Measure |
|--------------|--------|-----------------|-----------------|-----------------|
| Benzene | <0.2 | ug/kg | 0.2 | ug/kg |
| Toluene | 5.8 | ug/kg | 0.2 | ug/kg |
| Ethylbenzene | 90.9 | ug/kg | 0.2 | ug/kg |
| m,p-Xylene | 380.3 | ug/kg | 0.2 | ug/kg |
| o-Xylene | 212.9 | ug/kg | 0.2 | ug/kg |
| TOTAL | | 689.9 | | ug/kg |

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

Approved by: *JG*
Date: *8/30/96*

Zachry #19-E Ovip Pit

9-12-96

Meridian 0:1

Sec 12, 28N, 10W

Land Farm: On location

Composite sample # 9609121330 4pt.

soil vapor PID reading = 16.1 ppm

| | | |
|-----|-----|-----|
| .90 | 1.1 | .0 |
| .60 | .0 | 1.0 |

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.: 5042
 Sample No. 12146
 Job No. 2-1000

Project Name: ***PNM Gas Services - Zachry #19E Drip Pit Landfarm***
 Project Location: ***9609121330; 6pt. Composite, 2"-12" depth***
 Sampled by: GC Date: 12-Sep-96 Time: 13:30
 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> | 24.2 | mg/kg | 5.0 | mg/kg |

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> | < 5.0 | ppm | 100 | 104 | 3.8 | 15% |

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> | 82 | 96 | (70-130) | 11 | 20% |

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

Approved by: 
 Date: 9/16/96

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