

District I  
P.O. Box 1300  
Albuquerque, NM 87103

District II  
P.O. Drawer 60  
Alameda, NM 88002

District III  
P.O. Box 100  
Rio Brazos Rd. Aztec, NM 87410

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

*Denny S. Frost*  
**DEPUTY OIL & GAS INSPECTOR**

**JUL 18 1997**

**PIT REMEDIATION AND CLOSURE REPORT**

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

**Address:** 603 W. Elm Street Farmington, NM 87401

**Facility or Well Name:** Omler #2

**Location:** Unit: G Sec: 35 T: 28 N R: 10 W County: San Juan

**Pit Type:** Separator ☒ Dehydrator ☐ Other none

**Land Type:** BLM ☒ State ☐ Fee ☐ Other No

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

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 94'

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  
No

**RECEIVED**  
**APR 24 1997**

(20 points)  
(0 points)

0

**Distance to Surface Water:**

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

Less than 200 feet  
200 feet to 1,000 feet  
Greater than 1,000 feet

(20 points)  
(10 points)  
(0 points)

0

**RANKING SCORE (TOTAL POINTS):**

0

**OIL CON. DIV.**  
**DIST. 3**

Date Remediation Started: 11/4/96 Date Completed: 11/6/96

Remediation Method: Excavation x Approx. Cubic Yard 77

(Check all appropriate sections)

Landfarmed x Amount Landfarmed (cubic yds) 77

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 a pit size of 16'x13x10' 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 10'

Sample date 11/4/96 Sample time 11:15:00 AM

#### Sample Results

Benzene (ppm) 0.0210

Total BTEX (ppm) 8.5979

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

TPH 32.70 Method 8015A

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

Ground Water Sample: Yes \_\_\_\_\_ No ✓

(If yes, see attached Groundwater Site Summary Report)

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

DATE April 28, 1997

SIGNATURE

*Denver Bearden*

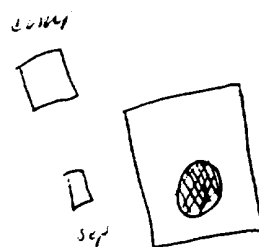
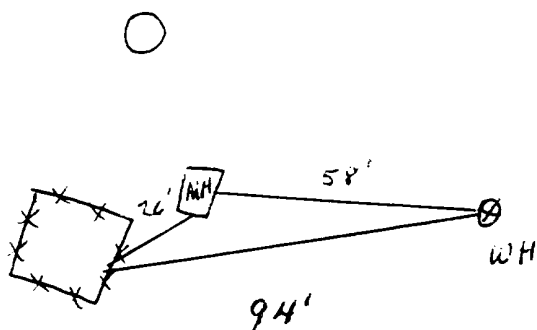
PRINTED NAME AND TITLE Denver Bearden  
Administrator III

↑  
N

OLiner #2

80° W of S

94' from well head



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: *6-Nov-96*  
 COC No.: *5130*  
 Sample No. *12748*  
 Job No. *2-1000*

Project Name: *PNM Gas Services - Olmer #2*  
 Project Location: *9611041115; Pit Excavation Composite Sample*  
 Sampled by: *RH* Date: *4-Nov-96* Time: *11:15*  
 Analyzed by: *DC/HR* Date: *6-Nov-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>32.7</i>   | <i>mg/kg</i>           | <i>5.0</i>             | <i>mg/kg</i>           |

**Quality Assurance Report**DRO QC No.: *0512-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>107</i>            | <i>7.1</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>90</i>                    | <i>95</i>                    | <i>(70-130)</i> | <i>4</i>    | <i>20%</i>   |

**Method** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *11/6/96*

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: *6-Nov-96*  
COC No.: *5130*  
Sample No.: *12748*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Olmer #2*  
Project Location: *9611041115; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *4-Nov-96* Time: *11:15*  
Analyzed by: *DC* Date: *6-Nov-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

| Parameter           | Result        | Unit of Measure | Detection Limit | Unit of Measure |
|---------------------|---------------|-----------------|-----------------|-----------------|
| <i>Benzene</i>      | <i>21.0</i>   | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>Toluene</i>      | <i>222.0</i>  | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>Ethylbenzene</i> | <i>655.6</i>  | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>m,p-Xylene</i>   | <i>5327.6</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>o-Xylene</i>     | <i>2371.7</i> | <i>ug/kg</i>    | <i>0.2</i>      | <i>ug/kg</i>    |
| <i>TOTAL</i>        |               | <i>8597.9</i>   |                 | <i>ug/kg</i>    |

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

Approved by:   
Date: *11/6/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Omler #2

Amoco  
Sec. 35, T28N, R10W

12-26-96

|          |          |           |
|----------|----------|-----------|
| 6.0<br>• | 3.3<br>• | 1.9<br>•  |
| 2.9<br>• | 3.0<br>• | 0.60<br>• |

2"-12" depth



Landfarmed: On location

Composite sample # 9612260915

soil vapor head space PID reading = 53.8 ppm

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: *2-Jan-97*  
COC No.: *5111*  
Sample No. *13264*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Omler #2 Landfarm*  
Project Location: *9612260915; 6pt. Composite, 2"-12" deep*  
Sampled by: *GC* Date: *26-Dec-96* Time: *9:15*  
Analyzed by: *HR* Date: *2-Jan-97*  
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>16.9</i>   | <i>mg/kg</i>           | <i>5.0</i>             | <i>mg/kg</i>           |

***Quality Assurance Report***DRO QC No.: *0512-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>96</i>             | <i>3.7</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>123</i>                   | <i>106</i>                   | <i>(70-130)</i> | <i>11</i>   | <i>20%</i>   |

***Method*** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *1/2/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

F. Loc. 1650/N; 1650/E Elev. 5839GL Spd. 6/29/50 Comp. 8/2/50 TD 1934 PS  
 Casing 9-5/8 @ 100W 100 Sz. Int. @ W Sz. Pr. 5 1/2 @ 1837W 200 Sz. T. 1 @ 1910  
 Cap. Perf. Prod. Sthm.  
 Shot 200 qts 1856-1934  
 I.P. 1548 MCF/D After Hrs. Sic. P. 573 PSI After Days GOR Grav. 1st Del. 9/19/50 **SUG**

| TOPS          |      | NTD     |   | Well Log     |    | TEST   |     |    |     | DATA |    |    |
|---------------|------|---------|---|--------------|----|--------|-----|----|-----|------|----|----|
| Kirkland      |      | C-102   |   | Flat         | X  | Schd.  | PC  | Q  | PW  | PD   | D  | AR |
| Frankland     |      | C-103   |   | Electric Log |    |        |     |    |     |      | 93 |    |
| Pictured CMfs | 1854 | C-104   | X | C-110        | X✓ |        | 437 | 38 | 294 | 219  | 50 |    |
| Cliff House   |      | Remarks |   |              |    | 5-7-55 | 389 | 48 | 252 | 195  | 60 |    |
| Memefee       |      |         |   |              |    | 7/1/56 | 308 | 58 | 222 | 154  | 85 |    |
| Point Lookout |      |         |   |              |    |        |     |    |     |      |    |    |
| Mamcos        |      |         |   |              |    |        |     |    |     |      |    |    |
| Tocho         |      |         |   |              |    |        |     |    |     |      |    |    |
| Dakota        |      |         |   |              |    |        |     |    |     |      |    |    |
| Morrison      |      |         |   |              |    |        |     |    |     |      |    |    |
| Extrada       |      |         |   |              |    |        |     |    |     |      |    |    |
| PcD           | 3995 |         |   |              |    |        |     |    |     |      |    |    |
| ✓             |      |         |   |              |    |        |     |    |     |      |    |    |

160

Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.  
 Ful-Kutz PC San Juan 35 T 28N R LOW U G Oper. Dalhi Lm Omler No. 2

| TEST DATA |     |     |     |     |     | Ref. No. |
|-----------|-----|-----|-----|-----|-----|----------|
| Schd.     | PC  | Q   | PW  | PD  | D   |          |
|           |     |     |     |     | 93  |          |
|           | 437 | 38  | 294 | 219 | 50  |          |
| 5/7/55    | 389 | 48  | 252 | 195 | 60  |          |
| 7/1/56    | 308 | 58  | 222 | 154 | 85  |          |
| 5/3/55    | 349 | 48  | 217 | 174 | 48  |          |
| 5/1/55    | 365 | 31  | 221 | 182 | 36  |          |
| 10/1/57   | 513 | 19  | 192 | 254 | 17  |          |
| 60        | 75  | 60  | 40  | 100 |     |          |
| 61        | "   | "   | "   | "   |     | XM       |
| 62        | "   | "   | "   | "   |     |          |
| 63        | "   | "   | "   | "   |     |          |
| 4/1/55    | NGP |     |     |     |     | XM       |
| 7/17/57   | 230 | 193 | 185 | 184 | 197 |          |

Jan. May June July Aug. Sept. Oct. Nov. Dec.  
 Lm Omler No. 2

ILLEGIBLE

F

F. Loc. 1650/N; 1650/E Elev. 5839 GL Spd. 6-29-50 Comp. 8-2-50 TD 1934 PB \_\_\_\_\_  
 Casing S. 9 5/8 100 100 Sx. Int. 3 1/2 @ 1700 W 100 Sx. Pr. 5 1/2 @ 1837 W 200 Sx. T. 1 1/4 @ 1910  
 Csg. Perf. \_\_\_\_\_ Prod. Stim. \_\_\_\_\_

Shot 200 ats. 1856-1934

T  
R  
A  
N  
S  
M  
I  
T

I.P. 1548 MCF/D After \_\_\_\_\_ Hrs. SICP 573 PSI After \_\_\_\_\_ Days GOR \_\_\_\_\_ Grav. \_\_\_\_\_ Ist Del. 9-19-50 \$ \_\_\_\_\_

| TOPS            |      | NITD                                                                                  | Well Log     | TEST DATA |                       |     |     |     |     |  | Ref. No. |
|-----------------|------|---------------------------------------------------------------------------------------|--------------|-----------|-----------------------|-----|-----|-----|-----|--|----------|
| K rtland        |      | C-103                                                                                 | Plat         | Schd.     | PC                    | Q   | PW  | PD  | D   |  |          |
| Fruitland       |      | C-104                                                                                 | Electric Log | 8/2/78    | 215                   | 149 | 166 | 172 | 136 |  |          |
| Pictured Cliffs | 1854 |                                                                                       | C-122        | 7/17/79   | 188                   | 216 | 147 | 150 | 204 |  |          |
| Cliff House     |      | Ditr                                                                                  | Dfa          | 8/17/81   | 210                   | 115 | 170 | 168 | 119 |  |          |
| Manefee         |      | Datr                                                                                  | Dac          | 4/17/83   | 191                   | 100 | 176 | 153 | 214 |  |          |
| Point Lookout   |      | Disconnect 9/26/66<br># 9722<br>NIT incasing, Fst. Coat + Plug<br>7-1-61 d. 6 1/2" 25 |              |           | 10/17/65              | 197 |     |     |     |  |          |
| Mancos          |      |                                                                                       |              |           | 7-24-87               | 228 |     |     |     |  |          |
| Gallup          |      |                                                                                       |              |           | Dis. Connected 5/5/92 |     |     |     |     |  |          |
| Sanostee        |      |                                                                                       |              |           |                       |     |     |     |     |  |          |
| Greenhorn       |      |                                                                                       |              |           |                       |     |     |     |     |  |          |
| Dakota          |      |                                                                                       |              |           |                       |     |     |     |     |  |          |
| Morrison        |      |                                                                                       |              |           |                       |     |     |     |     |  |          |
| Entrada         |      | 17enn Oil Co                                                                          |              |           |                       |     |     |     |     |  |          |
| PCD             | 3995 | /Delhi-Taylor                                                                         | 160          |           |                       |     |     |     |     |  |          |

P  
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I

Ful. Kutz-PC Co. SJ S 35 T 28N R10W U G Oper. Amoco Production Co. Ls\*\*Omler

No. 2