

District I  
P.O. Box 1930, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

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

**JUL 22 1998**

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

**RECEIVED**  
**JUL 22 1998**

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

**PIT REMEDIATION AND CLOSURE REPORT**

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

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

**Facility or Well Name:** Cozzens B #1

**Location:** Unit L Sec 19 T 29 N R 11 W County San Juan

**Pit Type:** Separator ☐ Dehydrator ☒ Other ☐

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

**Pit Location:** Pit dimensions: length 20 width 20 depth 4

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 63'

Direction from reference: 30 Degrees ☒ East ☐ West of North ☒ South ☐

|   |                       |             |           |
|---|-----------------------|-------------|-----------|
| <b>Depth to Ground Water:</b><br><br>(Vertical distance from contaminants to<br>seasonal high water elevation of ground<br>water) | Less than 50 feet     | (20 points) |           |
|   | 50 feet to 99 feet    | (10 points) |           |
|   | Greater than 100 feet | (0 points)  | <u>20</u> |

|  |     |             |           |
|--|-----|-------------|-----------|
| <b>Wellhead Protection Area:</b><br><br>(Less than 200 feet from a private<br>domestic water source, or; less than 1,000<br>feet from all other water sources) | Yes | (20 points) |           |
|  | No  | (0 points)  | <u>20</u> |

|  |                         |             |           |
|--|-------------------------|-------------|-----------|
| <b>Distance to Surface Water:</b><br><br>(Horizontal distance to perennial lakes,<br>ponds, rivers, streams, creeks, irrigation<br>canals and ditches) | Less than 200 feet      | (20 points) |           |
|  | 200 feet to 1,000 feet  | (10 points) |           |
|  | Greater than 1,000 feet | (0 points)  | <u>10</u> |

**RANKING SCORE (TOTAL POINTS):** 50

Cozzens B #1

Date Remediation Started: 2/20/96

Date Completed: 2/22/96

Remediation Method: Excavation ☒

Approx. Cubic Yard 369

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 369

Other \_\_\_\_\_

Remediation Location:

Onsite \_\_\_\_\_

Offsite

Cozzens #5

Cozzens #2

(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 36'x26'x8' and landfarmed soil offsite 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

3 feet

Final Pit Closure  
Sampling:

Sample Location

Center of pit

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

7'

Sample date

2/20/96

Sample time

1:20:00 PM

## Sample Results

Benzene (ppm) &lt; 0.0002

Total BTEX (ppm) 0.0085

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

TPH (ppm)

&lt; 25.00

Method

418.1

Vertical Extent (ft) \_\_\_\_\_

Risk Analysis form attached

Yes ☐No ☐

Ground Water Sample:

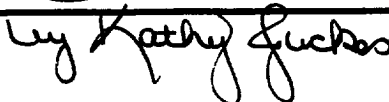
Yes ☒No ☐

(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

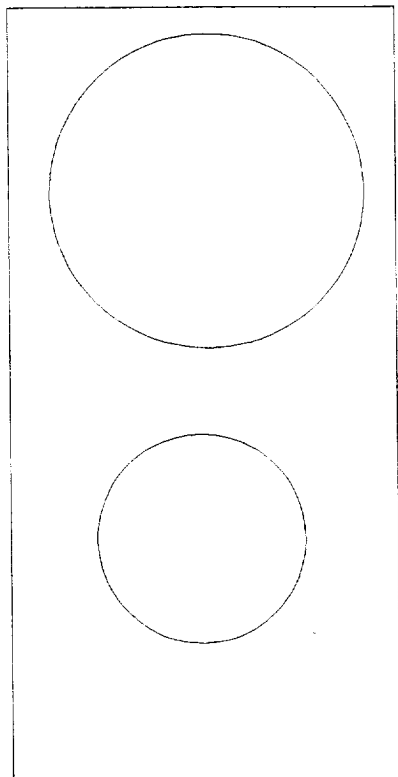
DATE April 29, 1998

SIGNATURE

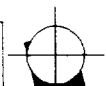
PRINTED NAME  
AND TITLEMaureen Gannon  
Project Manager



95'X3.5'X4'  
42.2 cu. yds.



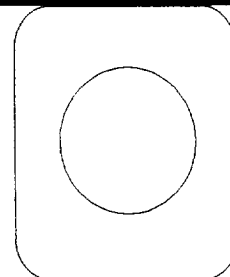
SEP



10'X4'X4'  
5.9 cu. yds.



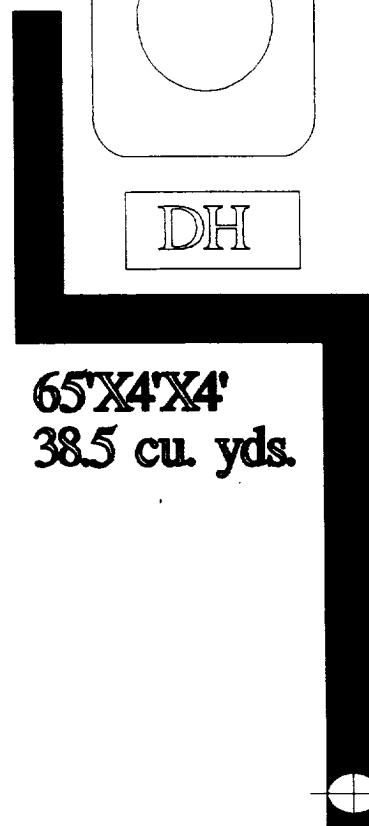
36'X26'X8'  
277 cu. yds.



DH

61'X4'X5.25'  
47.4 cu. yds.

65'X4'X4'  
38.5 cu. yds.



WH.



COZZIENS B1

MH

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: 22-Feb-96  
COC No.: 4551  
Sample No. 10313  
Job No. 2-1000

Project Name: **PNM Gas Services - Cozzens B-1**  
Project Location: **9602201320; Center of Pit 7ft. depth**  
Sampled by: RH Date: 20-Feb-96 Time: 13:20  
Analyzed by: DC Date: 21-Feb-96  
Type of Sample: *Soil*

**Aromatic Volatile Organics**

| Component    | Result | Units of Measure | Detection Limit | Units of Measure |
|--------------|--------|------------------|-----------------|------------------|
| Benzene      | <0.2   | ug/kg            | 0.2             | ug/kg            |
| Toluene      | 2.1    | ug/kg            | 0.2             | ug/kg            |
| Ethylbenzene | 0.8    | ug/kg            | 0.2             | ug/kg            |
| m,p-Xylene   | 4.4    | ug/kg            | 0.2             | ug/kg            |
| o-Xylene     | 1.1    | ug/kg            | 0.2             | ug/kg            |
| TOTAL        |        | 8.5              |                 | ug/kg            |

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

Approved by: *Jah*  
Date: *2/22/96*

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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: *22-Feb-96*  
COC No.: *4551*  
Sample No. *10313*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Cozzens B-1*  
Project Location: *9602201320; Center of Pit 7ft. depth*  
Sampled by: *RH* Date: *20-Feb-96* Time: *13:20*  
Analyzed by: *HR* Date: *21-Feb-96*  
Type of Sample: *Soil*

#### **Laboratory Analysis**

| <b>Laboratory Identification</b> | <b>Sample Identification</b>   | <b>Total Petroleum Hydrocarbons</b> |
|----------------------------------|--|-------------------------------------|
| <i>10313-4551</i>                | <i>PNM Gas Services - Cozzens B-1</i><br><i>9602201320; Center of Pit 7ft. depth</i> | <i>&lt; 25 mg/kg</i>                |

#### **Quality Assurance Report**

| <b>Laboratory Identification</b>               | <b>Analyzed Value</b> | <b>Acceptable Range</b> | <b>Units of Measure</b> |
|--|-----------------------|-------------------------|-------------------------|
| <i>Laboratory Fortified Blank Soil - QCBS2</i> | <i>&lt; 25</i>        | <i>&lt; 25</i>          | <i>mg/kg</i>            |
| <i>Laboratory Fortified Spike Soil - QCSS1</i> | <i>929</i>            | <i>828 - 1024</i>       | <i>mg/kg</i>            |

**Method** - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*  
Date: *2/22/96*

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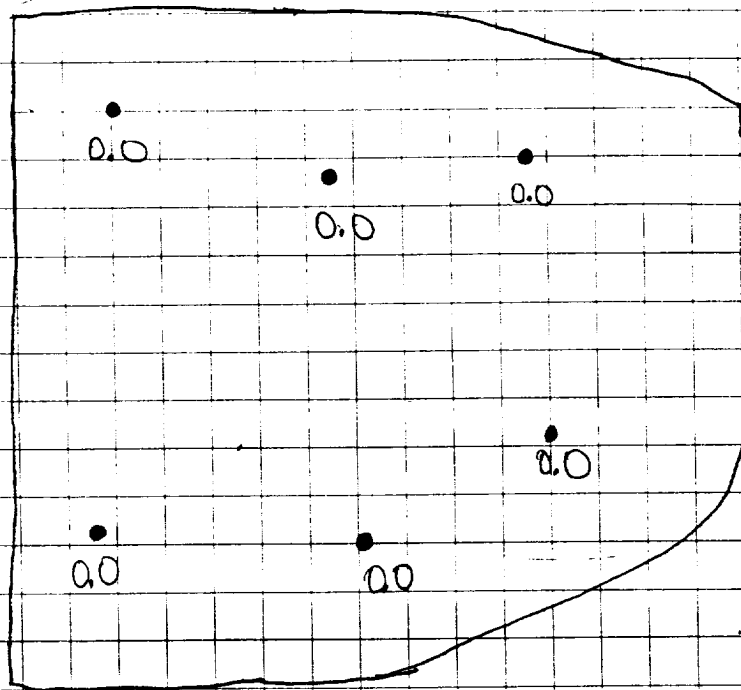
7/2/96

Cozzens B1

Cozzens #5 (location of L.F.)

Composite Sample 960702 0850

Soil Vapor Reading 85



Sample Depth between 2"-12" deep

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: *8-Jul-96*  
COC No.: *4700*  
Sample No. *11388*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Cozzens #5 Landfarm ( Cozzens B1)*  
Project Location: *9607020850; 6pt. Composite, 2"-12" deep*  
Sampled by: *KL* Date: *2-Jul-96* Time: *8:50*  
Analyzed by: *DC* Date: *3-Jul-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>&lt;5.0</i> | <i>mg/kg</i>           | <i>5.0</i>             | <i>mg/kg</i>           |

### *Quality Assurance Report*

DRO QC No.: *0475-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>2,000</i>      | <i>1,915</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>117</i>                   | <i>112</i>                   | <i>(70-130)</i> | <i>3</i>    | <i>20%</i>   |

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

Approved by: *[Signature]*

Date: *7/9/96*

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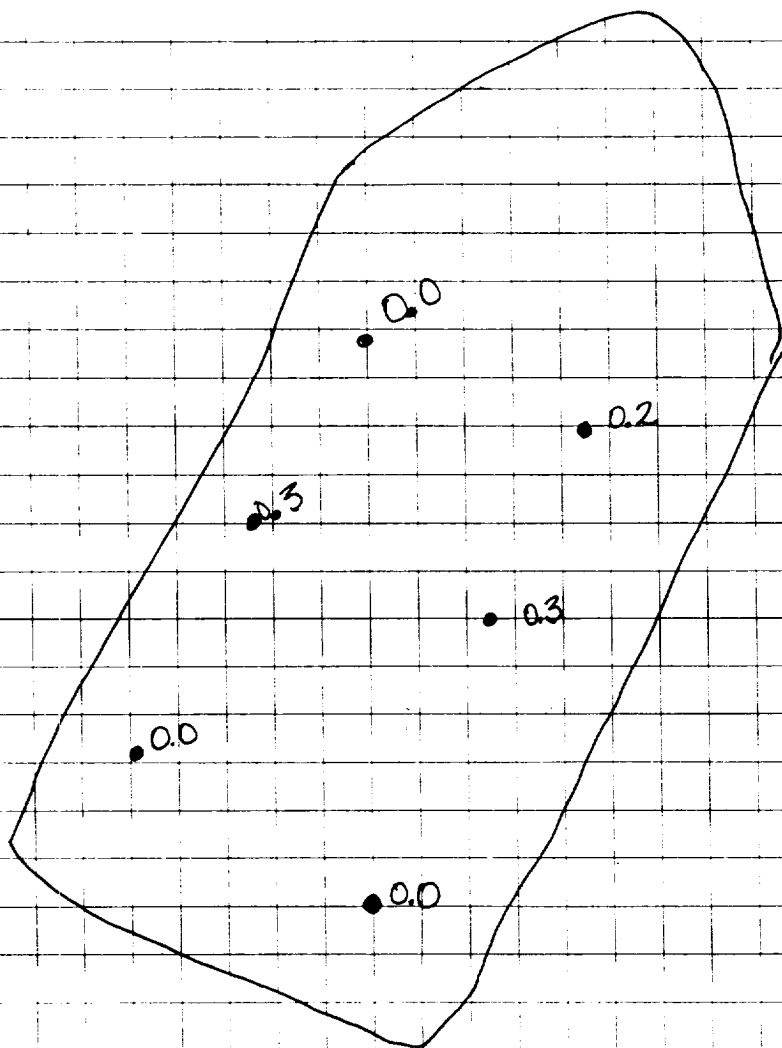
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7/2/96

Cozzens Bl  
Location Cozzens #2 (P+A) 19-29N-11W  
Meridian

Composite Sample # 9607020805 bpt.

Soil vapor headspace reading = 6.6



○  
P+A Marker

Sample Depth between 2"-12" deep



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: *8-Jul-96*  
COC No.: *4699*  
Sample No. *11387*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Cozzens #2 Landfarm ( Cozzens B1)*  
Project Location: *9607020805; 6pt. Composite, 2"-12" deep*  
Sampled by: *KL* Date: *2-Jul-96* Time: *8:05*  
Analyzed by: *DC* Date: *3-Jul-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>&lt;5.0</i> | <i>mg/kg</i>           | <i>5.0</i>             | <i>mg/kg</i>           |

### *Quality Assurance Report*

*DRO QC No.: 0475-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>2,000</i>      | <i>1,915</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>117</i>                  | <i>112</i>                   | <i>(70-130)</i> | <i>3</i>    | <i>20%</i>   |

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

Approved by: *[Signature]*

Date: *7/8/96*

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## **Groundwater Site Summary Report**

Copies: WFS(1)  
Operator (1)  
NMOCD District Office (1)  
NMOCD Santa Fe (1)

Quarter/Year: 2<sup>nd</sup>/97, 3<sup>rd</sup>/97, 4<sup>th</sup>/97 & 1<sup>st</sup>/98

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Operator: Burlington Resources  
Sec: 19 Twn: 29 Rng: 11 Unit: L  
Canyon: San Juan

Vulnerable Class: Original  
OCD Ranking: 60  
Lead Agency: NMOCD

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Topo Map: previously submitted  
Well Completion Diagram: previously submitted  
Site Map with Analysis: Figure 1  
Groundwater Contour Maps: Figure 2 (May 1997) & Figure 3 (August 1997)  
Groundwater Hydrograph: Figure 4  
Analytical Results: attached

### **Activities for Previous Year:**

On May 29 and August 28, 1997, PNM conducted quarterly groundwater sampling at the Cozzens B1 well site. Prior to sampling, water level measurements were taken in MW-1, -2, -3, -4 and -5.

During the August sampling event, free phase product was discovered in monitor well MW-3. This well is located in a southwesterly direction downgradient of Burlington Resources' (BR) 300 bbl product storage tank. PNM immediately notified BR of a potential leak in their tank. PNM and BR visited the site on September 24, 1997, and discovered that a flange located near the bottom of the tank was leaking.

In a November 12, 1997 letter to OCD, PNM proposed to install a groundwater monitoring well in a true downgradient direction from our former pit and monitor MW-1, MW-2 and the new downgradient well to demonstrate successful remediation of groundwater beneath our former pit. OCD provided approval of our recommendations in a March 3, 1998 letter to PNM.

On January 27, 1998, two monitor wells, MW-7 and MW-8, were installed immediately downgradient of our former pit. The wells were developed. Water levels were not taken in the new wells and therefore a groundwater contour map is not provided for January 1998. PNM performed sampling in MW-1, -2, -7 and -8.

All groundwater sampling at the Cozzens B1 well site was conducted in strict compliance with EPA protocol. PNM delivered groundwater samples to OnSite Technologies, Farmington, New Mexico, for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020.

### **Results:**

Figure 1 is a site map of the Cozzens B1 well site and includes the groundwater analytical results. Figure(s) 2, 3 and 4 are groundwater contour maps for the months of May and August 1997. The groundwater gradient flows in a southwesterly direction beneath the site and is dependent on discharge from the Citizens Ditch which flows in a northwesterly direction above the well site. Figure 4 is the hydrograph (water level versus time) for the site. Since June of 1996, water levels have held fairly constant except for MW-5. This well may not be completed within the same permeable layer as the other wells. We believe MW-5 receives groundwater from the canyon located to the northeast of the site.

Results of all sampling events show that BTEX concentrations in MW-1 and MW-2 have been below WQCC standards or non-detectable for seven quarters of monitoring. BTEX concentrations in the newest wells, MW-7 and MW-8, are also below WQCC standards or non-detectable.

### **Further Action:**

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of the Cozzens B1 former pit. This request is based upon the analytical data collected over the last two years at

the site. BTEX concentrations in upgradient and source wells at our former pit have been consistently below WQCC standards for over four calendar quarters. Sampling of MW-7 and MW-8 also indicated that BTEX concentrations in groundwater downgradient of our former pit area are non-detectable or below WQCC standards.

Upon completion of monitoring and remedial actions, PNM will plug and abandon the monitoring wells at the site. The concrete pad and metal vault surrounding the well will be removed. The well casing will be cut to ground surface with cement containing 5% bentonite.

Scale: 1 inch = 50 feet  
cozzmap327.srf

**MW-1**

|   | 4/96 | 6/96 | 8/96 | 11/96 | 2/97 | 5/97 | 8/97 | 1/98 |
|---|------|------|------|-------|------|------|------|------|
| B | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | <0.5 |
| T | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | <0.5 |
| E | 0.9  | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | <0.5 |
| X | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | 0.2  | <1.5 |

**MW-2**

|   | 4/96  | 6/96 | 8/96 | 11/96 | 2/97 | 5/97 | 8/97 | 1/98 |
|---|-------|------|------|-------|------|------|------|------|
| B | 52.3  | <0.2 | <0.2 | 0.3   | 0.7  | 0.2  | 0.2  | 0.2  |
| T | 10.6  | 2.7  | 3.0  | 0.4   | 0.5  | 4.5  | 0.4  | 0.4  |
| E | 34.3  | 6.7  | 4.4  | 1.8   | 3.8  | 4.5  | 1.5  | 1.5  |
| X | 642.3 | 13.8 | 11.1 | 4.0   | 13.1 | 39.3 | 2.3  | 2.3  |

**MW-3**

|   | 8/96   | 11/96 | 2/97   | 5/97 | 8/97 | 1/98 |
|---|--------|-------|--------|------|------|------|
| B | 107.1  | 20.8  | 132.1  | 42   | 96   | NA   |
| T | 15.2   | 45.3  | 39.6   | 26   | 22   | NA   |
| E | 201.4  | 86.4  | 263.6  | 211  | 208  | NA   |
| X | 1350.2 | 561.1 | 1971.1 | 1911 | 1239 | NA   |

**MW-4**

|   | 4/96 | 6/96 | 8/96 | 11/96 | 2/97 | 5/97 | 8/97 | 1/98 |
|---|------|------|------|-------|------|------|------|------|
| B | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |
| T | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |
| E | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |
| X | 0.4  | <0.2 | <0.2 | <0.2  | <0.2 | 1.7  | 0.2  | NA   |

**MW-5**

|   | 4/96 | 6/96 | 8/96 | 11/96 | 2/97 | 5/97 | 8/97 | 1/98 |
|---|------|------|------|-------|------|------|------|------|
| B | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | 0.5  | NA   |
| T | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |
| E | <0.2 | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |
| X | 0.4  | <0.2 | <0.2 | <0.2  | <0.2 | <0.2 | <0.2 | NA   |

**MW-7** Former PNMP

**MW-8**

**Former MW-6** Removed During Remediation 3/17/97

**Well Head**

**Seep Pond**

**Burlington Equipment**

**WFS Equipment**

**Separator**

**300 BBL**

Figure 2. Cozzen B1 Groundwater Contour Map (May 29, 1997)

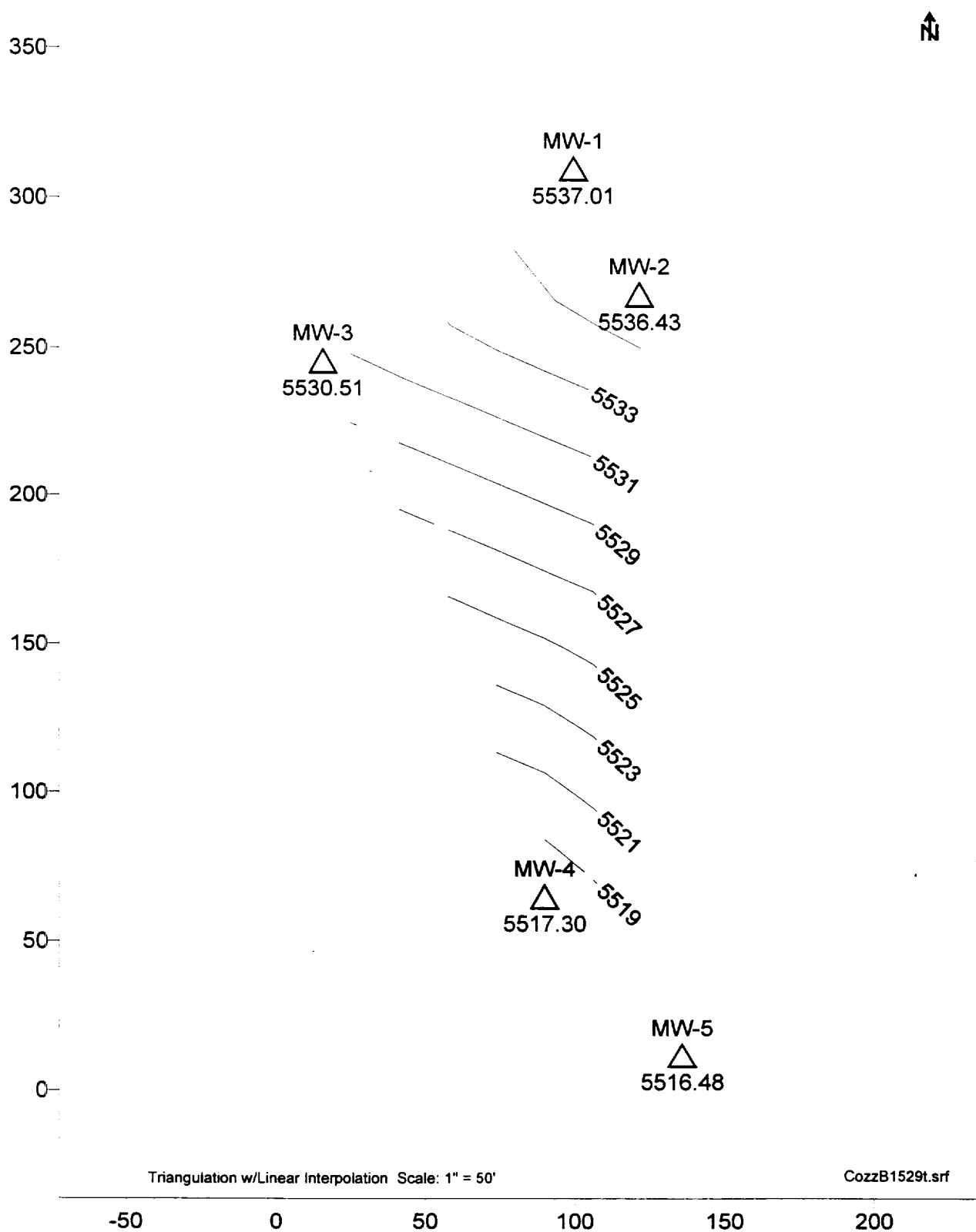


Figure 3. Cozzen B1 Groundwater Contour Map (August 28, 1997)

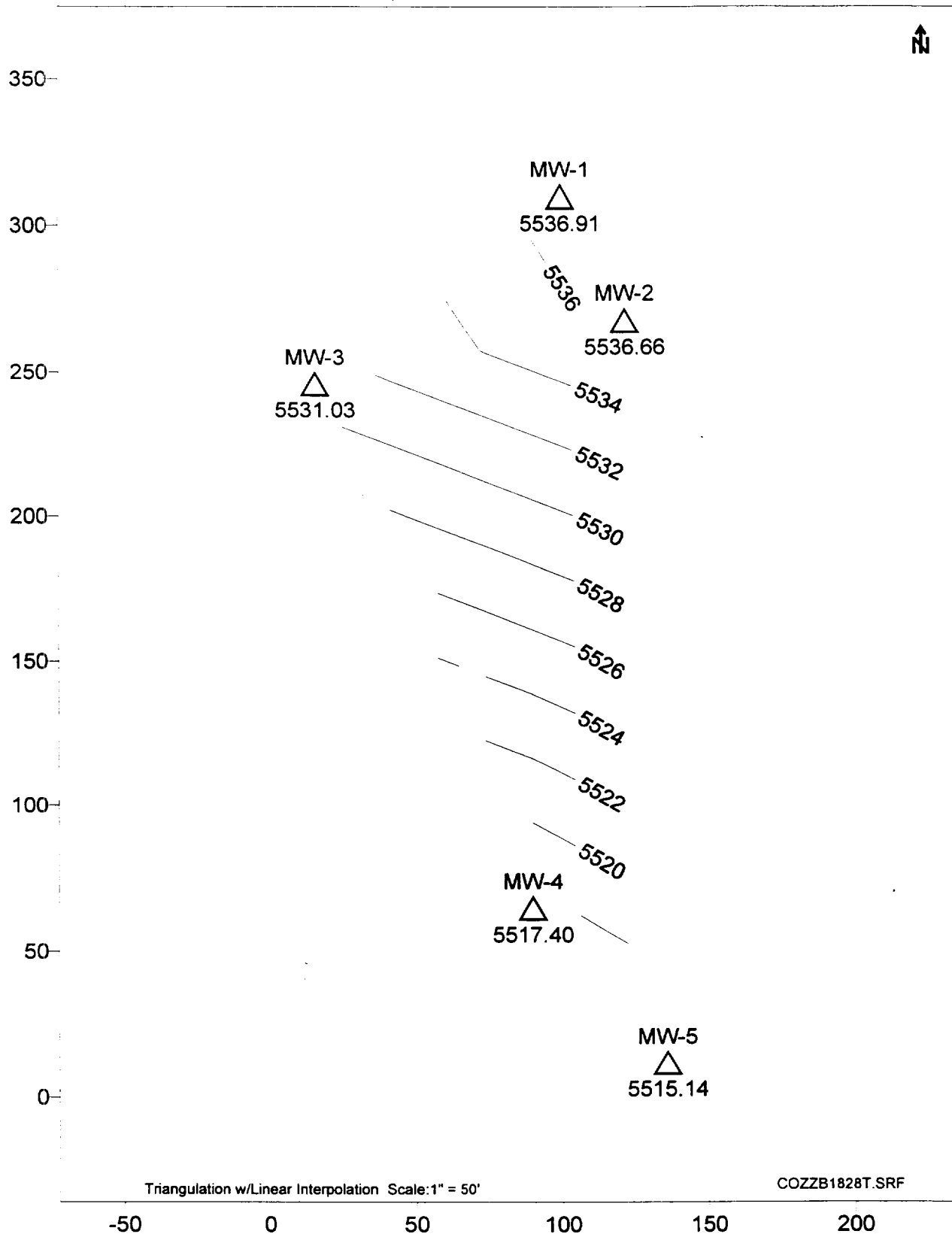
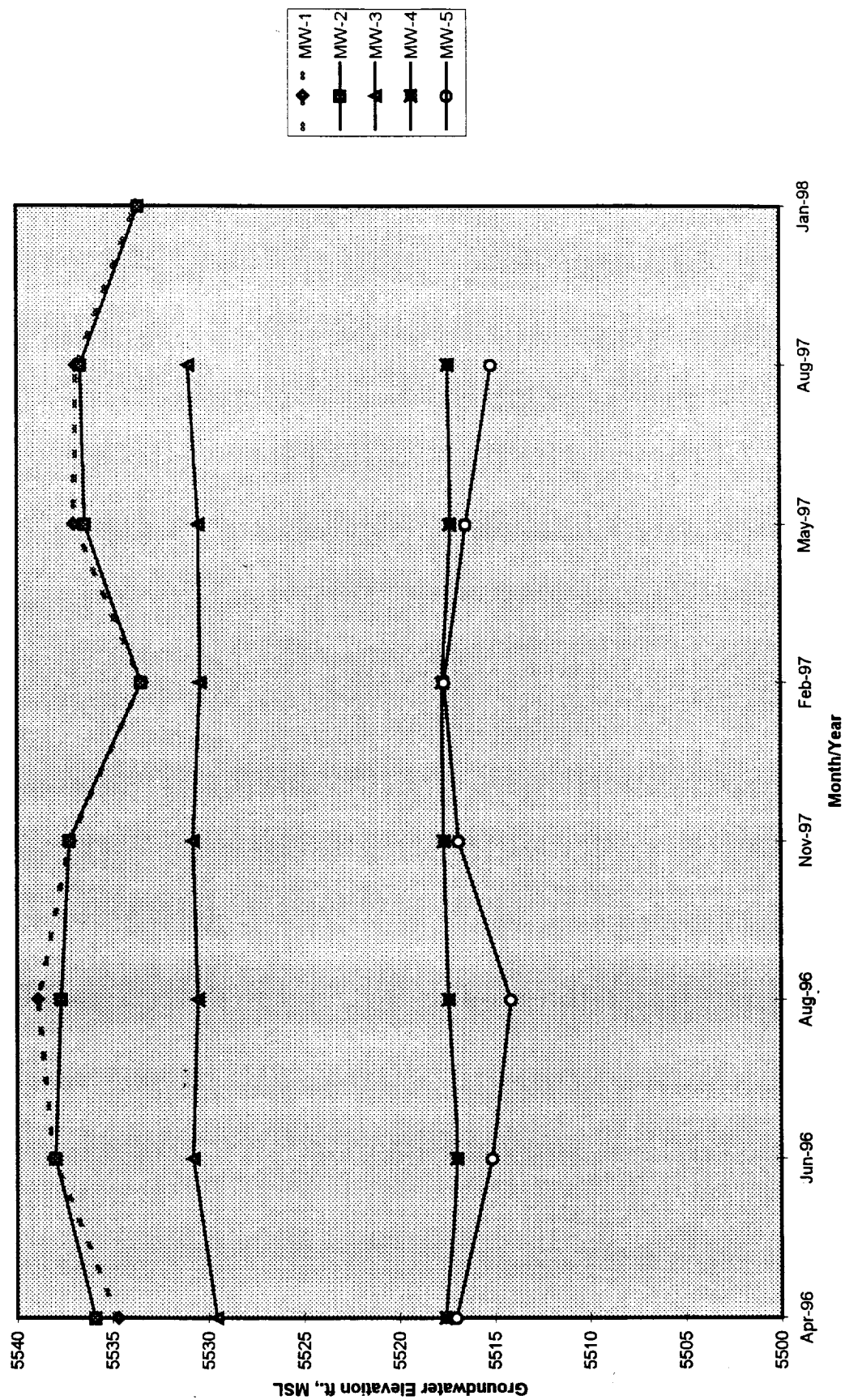


Figure 4. Cozen B1 Hydrograph  
(Water Level vs. Time)







OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *10-Jun-97*  
COC No.: *5560*  
Sample No.: *14778*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291300; MW-1*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *13:00*

Analyzed by: *DC*

Date: *4-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | ND                  | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*

Date: *6/11/97*

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OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *11-Jun-97*  
COC No.: *5560*  
Sample No.: *14779*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291330; MW-2*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *13:30*

Analyzed by: *DC*

Date: *4-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | 4.5                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 4.5                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 30.7                | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 8.6                 | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 48.3                | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

~ TECHNICAL ~ BLENDING INDUSTRIES ~ WITH THE ENVIRONMENT ~

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *10-Jun-97*  
COC No.: *5560*  
Sample No.: *14780*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291400; MW-3*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *14:00*

Analyzed by: *DC*

Date: *3-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>42</i>           | <i>ug/L</i>     | <i>2</i>              | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>26</i>           | <i>ug/L</i>     | <i>2</i>              | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>211</i>          | <i>ug/L</i>     | <i>2</i>              | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>1906</i>         | <i>ug/L</i>     | <i>2</i>              | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>5</i>            | <i>ug/L</i>     | <i>2</i>              | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>2191</i>         | <i>ug/L</i>     |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*

Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- SERVING THE BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *10-Jun-97*  
COC No.: *5560*  
Sample No.: *14781*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291430; MW-4*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *14:30*

Analyzed by: *DC*

Date: *4-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 1.7                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <b>TOTAL</b>        | <b>1.7</b>          | <b>ug/L</b>     |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*

Date: *6/11/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *10-Jun-97*  
COC No.: *5560*  
Sample No.: *14782*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291500; MW-5*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *15:00*

Analyzed by: *DC*

Date: *3-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | ND                  | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

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

Date: *11-Jun-97*  
COC No.: *5560*  
Sample No.: *14783*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*

Project Location: *9705291530; MW-6*

Sampled by: *MG/MS*

Date: *29-May-97* Time: *15:30*

Analyzed by: *DC*

Date: *4-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | 4.8                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 4.6                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 31.4                | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 8.7                 | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 49.5                | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

CLINTON COUNTY WELDING INSTITUTE WITH THE UNIVERSITY OF NEW MEXICO

# CHAIN OF CU ODY RECORD

5560

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

|                       |  |                      |  |   |  |                                 |  |                                     |  |                       |  |
|-----------------------|--|----------------------|--|---|--|---------------------------------|--|-------------------------------------|--|-----------------------|--|
| Purchase Order No.:   |  | Job No.              |  | Name                                      |  | Maureen Gannon                  |  | Title                               |  |                       |  |
| Name                  |  | Denver Bearden       |  | Company                                   |  | PNM Gas Services                |  |                                     |  |                       |  |
| Company               |  | PNM Gas Services     |  | Mailing Address                           |  | Alverado Square, Mail Stop 0408 |  |                                     |  |                       |  |
| Address               |  | 603 W. Elm Street    |  | City, State, Zip                          |  | Albuquerque, NM 87158           |  |                                     |  |                       |  |
| City, State, Zip      |  | Farmington, NM 87401 |  | Telephone No.                             |  | 505-848-2974                    |  | Telefax No.                         |  |                       |  |
| Sampling Location:    |  |                      |  | ANALYSIS REQUESTED                        |  |                                 |  |                                     |  |                       |  |
| Sampler:              |  |                      |  | Number of Containers                      |  |                                 |  |                                     |  |                       |  |
| SAMPLE IDENTIFICATION |  |                      |  | SAMPLE DATE                               |  | TIME                            |  | MATRIX                              |  | PRES.                 |  |
| 11/03/1500            |  |                      |  | 11/03/1500                                |  | 11:00                           |  | 11:00                               |  | 11:00                 |  |
| 11/03/1530            |  |                      |  | 11/03/1530                                |  | 11:30                           |  | 11:30                               |  | 11:30                 |  |
| 11/03/1400            |  |                      |  | 11/03/1400                                |  | 14:00                           |  | 14:00                               |  | 14:00                 |  |
| 11/03/1430            |  |                      |  | 11/03/1430                                |  | 14:30                           |  | 14:30                               |  | 14:30                 |  |
| 11/03/1500            |  |                      |  | 11/03/1500                                |  | 15:00                           |  | 15:00                               |  | 15:00                 |  |
| 11/03/1530            |  |                      |  | 11/03/1530                                |  | 15:30                           |  | 15:30                               |  | 15:30                 |  |
| Relinquished by:      |  |                      |  | Date/Time                                 |  | 11/03/15:15                     |  | Received by:                        |  | Date/Time             |  |
| Relinquished by:      |  |                      |  | Date/Time                                 |  |                                 |  | Received by:                        |  | Date/Time             |  |
| Relinquished by:      |  |                      |  | Date/Time                                 |  |                                 |  | Received by:                        |  | Date/Time             |  |
| Method of Shipment:   |  |                      |  | Rush                                      |  | 24-48 Hours                     |  | 10 Working Days                     |  | Special Instructions: |  |
| Authorized by:        |  |                      |  | (Client Signature Must Accompany Request) |  | Date                            |  | Results to be sent to both parties. |  |                       |  |

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *15998*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281330; MW-1*  
Sampled by: *MG/MS*  
Analyzed by: *DC*  
Sample Matrix: *Liquid*

Date: *28-Aug-97* Time: *13:30*  
Date: *3-Sep-97*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 0.2                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499



OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

**ANALYTICAL REPORT**

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *15999*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281400; MW-2*  
Sampled by: *MG/MS* Date: *28-Aug-97* Time: *14:00*  
Analyzed by: *DC* Date: *3-Sep-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>0.2</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>0.4</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>1.5</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>2.0</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>0.3</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>4.5</i>          | <i>ug/L</i>     |                       |                 |

*5/29*

*ND*

*4.5*

*4.5*

*30.7*

*0.6*

*40.3*

ND - Not Detected at Limit of Quantitation

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

Approved By: *JAC*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

# ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

## ANALYTICAL REPORT

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *16000*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281430; MW-3*  
Sampled by: *MG/MS* Date: *28-Aug-97* Time: *14:30*  
Analyzed by: *DC* Date: *3-Sep-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | 96                  | ug/L            | 2                     | ug/L            |
| <i>Toluene</i>      | 22                  | ug/L            | 2                     | ug/L            |
| <i>Ethylbenzene</i> | 208                 | ug/L            | 2                     | ug/L            |
| <i>m,p-Xylene</i>   | 1233                | ug/L            | 2                     | ug/L            |
| <i>o-Xylene</i>     | 6                   | ug/L            | 2                     | ug/L            |
| <i>TOTAL</i>        | 1565                | ug/L            |                       |                 |

5/29  
42  
26  
211  
1906  
5  
2191

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *16001*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281500; MW-4*  
Sampled by: *MG/MS* Date: *28-Aug-97* Time: *15:00*  
Analyzed by: *DC* Date: *3-Sep-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |     |
|---------------------|---------------------|-----------------|-----------------------|-----------------|-----|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            | ND  |
| <i>Toluene</i>      | ND                  | ug/L            | 0.2                   | ug/L            | ND  |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            | ND  |
| <i>m,p-Xylene</i>   | 0.4                 | ug/L            | 0.2                   | ug/L            | 1.7 |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            | ND  |
| <i>TOTAL</i>        | 0.4                 | ug/L            |                       |                 | 1.7 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *Jac*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *16002*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281530; MW-6*  
Sampled by: *MG/MS* Date: *28-Aug-97* Time: *15:30*  
Analyzed by: *DC* Date: *3-Sep-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 1.7                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 3.0                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 5.1                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

*Dup of MW-2*

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

Approved By: *[Signature]*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *5-Sep-97*  
COC No.: *5680*  
Sample No.: *16003*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9708281600; MW-5*  
Sampled by: *MG/MS* Date: *28-Aug-97* Time: *16:00*  
Analyzed by: *DC* Date: *3-Sep-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | 0.5                 | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 0.7                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *9/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

**TECHNOLOGIES, LTD.**

| Distribution: White - On Site | Yellow - LAB | Pink - Sampler | Goldenrod - Client |
|-------------------------------|--------------|----------------|--------------------|
|-------------------------------|--------------|----------------|--------------------|

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *22-Oct-97*  
COC No.: *5848*  
Sample No.: *16598*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzens B1*  
Project Location: *9710151030; Seep Pond*  
Sampled by: *MG/MS* Date: *15-Oct-97* Time: *10:30*  
Analyzed by: *DC* Date: *20-Oct-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | 972                 | ug/L            | 10                    | ug/L            |
| <i>Toluene</i>      | 461                 | ug/L            | 10                    | ug/L            |
| <i>Ethylbenzene</i> | 233                 | ug/L            | 10                    | ug/L            |
| <i>m,p-Xylene</i>   | 1592                | ug/L            | 10                    | ug/L            |
| <i>o-Xylene</i>     | 443                 | ug/L            | 10                    | ug/L            |
| <i>TOTAL</i>        | 3700                | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *10/22/97*

P.O. BOX 2606 • FARMINGTON, NM 87499



# CHAIN OF CUSTODY RECORD

0848

Date: 10-15-97

Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

|  |  |   |  |
|--|--|---|--|
| Purchase Order No.:  |  | Job No.   |  |
| Name: <b>Denver Bearden</b>  |  | Name: <b>Maureen Gannon</b>                             |  |
| Company: <b>PNM Gas Services</b>   |  | Company: <b>PNM Gas Services</b>                        |  |
| Address: <b>603 W. Elm Street</b>  |  | Mailing Address: <b>Alverado Square, Mail Stop 0408</b> |  |
| City, State, Zip: <b>Farmington, NM 87401</b>                                |  | City, State, Zip: <b>Albuquerque, NM 87158</b>          |  |
| Telephone No.:   |  | Telephone No.:  |  |
| Telefax No.:   |  | Telefax No.:  |  |
| Title:   |  | Title:  |  |
| REPORT TO  |  | RESULTS TO  |  |
| Number of Containers   |  | ANALYSIS REQUESTED                                      |  |
| Sampler: <b>Maureen Gannon / Mark Sekuland</b>                               |  | LAB ID  |  |
| SAMPLE IDENTIFICATION  |  | LAB ID  |  |
| DATE   |  | DATE  |  |
| TIME   |  | TIME  |  |
| MATRIX   |  | PRES.   |  |
| H2O  |  | H2O   |  |
| 1710151030   |  | 1710151030  |  |
| SEEP POND  |  | SEEP POND   |  |
| 16598-5848   |  | 16598-5848  |  |
| Relinquished by: <b>Maureen Gannon</b>                                       |  | Received by: <b>Joe</b>                                 |  |
| Date/Time: <b>10/15/97 1330</b>  |  | Date/Time: <b>10/15/97 1330</b>                         |  |
| Relinquished by:   |  | Received by:  |  |
| Date/Time:   |  | Date/Time:  |  |
| Relinquished by:   |  | Received by:  |  |
| Date/Time:   |  | Date/Time:  |  |
| Method of Shipment:  |  | Special Instructions:                                   |  |
| Authorized by: <b>Maureen Gannon</b>   |  | Results to be sent to both parties.                     |  |
| (Client Signature Must Accompany Request)                                    |  |   |  |
| Date: <b>10/15/97</b>  |  |   |  |
| Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client |  |   |  |



OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *3-Feb-98*  
COC No.: *7169*  
Sample No.: *17415*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzen B-1*  
Project Location: *9801271015; MW-1*  
Sampled by: *MS/RD* Date: *27-Jan-98* Time: *10:15*  
Analyzed by: *DC* Date: *30-Jan-98*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 1.0                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>TOTAL</i>        | ND                  | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *2/3/98*

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OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

**ANALYTICAL REPORT**

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

Date: *3-Feb-98*  
COC No.: *7169*  
Sample No.: *17416*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzen B-1*

Project Location: *9801271030; MW-2*

Sampled by: *MS/RD* Date: *27-Jan-98* Time: *10:30*

Analyzed by: *DC* Date: *30-Jan-98*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>0.7</i>          | <i>ug/L</i>     | <i>0.5</i>            | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>4.8</i>          | <i>ug/L</i>     | <i>0.5</i>            | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>1.9</i>          | <i>ug/L</i>     | <i>0.5</i>            | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>3.0</i>          | <i>ug/L</i>     | <i>1.0</i>            | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>0.6</i>          | <i>ug/L</i>     | <i>0.5</i>            | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>10.9</i>         | <i>ug/L</i>     |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *JaC*  
Date: *2/3/98*

OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

**ANALYTICAL REPORT**

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

Date: *3-Feb-98*  
COC No.: *7169*  
Sample No.: *17417*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Cozzen B-1***

Project Location: ***9801271045; MW-7***

Sampled by: *MS/RD*

Date: *27-Jan-98* Time: *10:45*

Analyzed by: *DC*

Date: *30-Jan-98*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Toluene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Ethylbenzene</i> | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 1.0                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>TOTAL</i>        | ND                  | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *DAC*  
Date: *2/3/98*

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OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1558

**ANALYTICAL REPORT**

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

Date: *3-Feb-98*  
COC No.: *7169*  
Sample No.: *17418*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzen B-1*  
Project Location: *9801271100; MW-8*  
Sampled by: *MS/RD* Date: *27-Jan-98* Time: *11:00*  
Analyzed by: *DC* Date: *30-Jan-98*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Toluene</i>      | 0.7                 | ug/L            | 0.5                   | ug/L            |
| <i>Ethylbenzene</i> | 0.7                 | ug/L            | 0.5                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 1.0                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>TOTAL</i>        | 1.4                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *2/3/98*

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OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *3-Feb-98*  
COC No.: *7169*  
Sample No.: *17419*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Cozzen B-1*  
Project Location: *9801271115; MW-9*  
Sampled by: *MS/RD* Date: *27-Jan-98* Time: *11:15*  
Analyzed by: *DC* Date: *30-Jan-98*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>Toluene</i>      | 0.8                 | ug/L            | 0.5                   | ug/L            |
| <i>Ethylbenzene</i> | 0.7                 | ug/L            | 0.5                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 1.0                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.5                   | ug/L            |
| <i>TOTAL</i>        | 1.5                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *Jack*  
Date: *2/3/98*

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