

District I
P.O. Box 1900 Hobbs, NM

District II
P.O. Box 1900 Hobbs, NM

District III
1000 Rio Brazos Rd. Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RECEIVED
OCT 31 1996

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 #1E

Location: Unit: J Sec. 19 T. 29 N R. 11 W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 25 width 25 depth 4

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 120'

Direction from reference: 20 Degrees ☐ East ☐ North ☐
of ☒ West ☒ South

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

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

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

(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) 10

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

RANKING SCORE (TOTAL POINTS): 50

Date Remediation Started: 1/16/96 Date Completed: 1/25/96

Remediation Method: Excavation X Approx. Cubic Yard 1350
(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 1350
Other _____

Remediation Location: Onsite _____ Offsite Tierra Environmental
(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 40'x50'x18' and transported contaminated soil to an offsite commercial landfarm.

Ground Water Encountered: No ☐ Yes ☒ Depth 2 feet

Final Pit Closure Sampling:

Sample Location 3 pt composite

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

Sample depth 18'

Sample date 1/17/96 Sample time 9:25:00 AM

Sample Results

Benzene (ppm) < 0.0002

Total BTEX (ppm) < 0.0002

Field headspace (ppm) _____

TPH < 25.00 Method 418.1

Vertical Extent (ft) Bedrock Risk Assessment form attached Yes ☒ No ☐

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

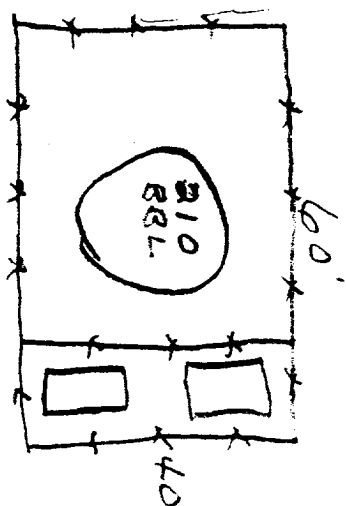
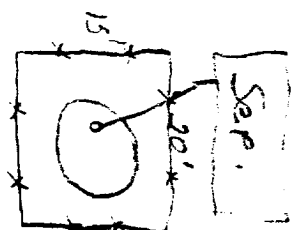
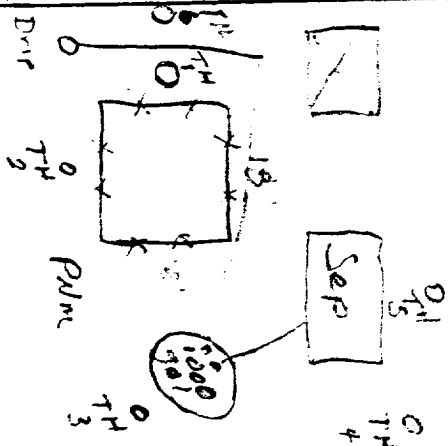
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 25, 1996

SIGNATURE Maureen Gannon

PRINTED NAME AND TITLE Maureen Gannon
Environmental Engineer

Logan BIE
S19 T29N R11W Unit J



with

N
↑

240'

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: *17-Jan-96*
COC No.: *4526*
Sample No. *10073*
Job No. *2-1000*

Project Name: *PNM Gas Services - Cozzens B-1E*
Project Location: *9601170925 - 1; 3pt. Composite*
Sampled by: *GC* Date: *17-Jan-96* Time: *9:25*
Analyzed by: *HR* Date: *17-Jan-96*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
<i>10073-4526</i>	<i>PNM Gas Services - Cozzens B-1E</i> <i>9601170925 - 1; 3pt. Composite</i>	<i>< 25 mg/kg</i>

Quality Assurance Report

Laboratory Identification	Analyzed Value	Acceptable Range	Units of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>< 25</i>	<i>< 25</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>941</i>	<i>828 - 1024</i>	<i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*
Date: *1/17/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

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: *17-Jan-96*
COC No.: *4526*
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Project Name: *PNM Gas Services - Cozzens B-1E*
Project Location: *9601170925 - 1; 3pt, Composite*
Sampled by: *GC* Date: *17-Jan-96* Time: *9:25*
Analyzed by: *DC* Date: *17-Jan-96*
Type of Sample: *Soil*

Aromatic Volatile Organics

<i>Component</i>	<i>Result</i>	<i>Units of Measure</i>	<i>Detection Limit</i>	<i>Units of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*
Date: *1/17/96*

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— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

Well Name:	Cozzens B # 1E
Legal:	Sec: 19 Twn: 29 Rng: 11 Unit: J
Pit Type:	Separator Pit
Vulnerable Area:	Area I
Horizontal Distance to Surface Water:	200 feet to 1000 feet
Depth to groundwater:	50 feet to 99 feet

RISK ASSESSMENT

No past or future threat to surface water or groundwater is likely based on the following considerations:

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located between 3 and 6 feet below grade.
- The site poses minimal environmental risk since source removal has occurred (January 1996) and there is now no evidence of groundwater.
- A recent canvas of neighboring residences revealed a domestic water well with groundwater at a depth of 70 feet, much deeper than the shallow sandstone bedrock.
- PNM conducted further site investigation activities at the Cozzens B1E. Using a backhoe, PNM dug several testholes (TH) on the well pad in attempt to install monitoring wells on location. Figure 1 presents a site map with the testhole locations identified. As indicated in the figure, sandstone was encountered between 3 and 6 feet throughout the site except in the location of the former pit excavation (TH-3). The backhoe operator was able to dig to 11 feet in this area; however, no groundwater was encountered. At each testhole location, a PNM technician monitored organic vapors using a PID. PID readings remained at 0 ppm throughout the investigation.

Conclusions and Recommendations:

Based upon the results of the recent investigation, PNM believes that the groundwater encountered at the site during the pit excavation was most likely perched water confined above the shallow sandstone bedrock. PNM encountered groundwater in the former pit area only during the original site investigation and subsequent pit excavation. There was no evidence of shallow groundwater during this latest phase of the investigation.

PNM wishes to close this site based upon the absence of shallow groundwater and the layering of sandstone encountered throughout the site. The site poses no future risk to the environment.