

District III
1000 Rio Brazos Rd. Aztec, NM 87001

1000 Rio Brazos Rd, Aztec, NM 87410

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RANKING SCORE (TOTAL POINTS): _____

General
S. H. H. H. H.
S. H. H. H. H.
S. H. H. H. H.
S. H. H. H. H.

Date Remediation Started: 8/7/97 Date Completed: 8/7/97Remediation Method: Excavation x Approx. Cubic Yard 266

(Check all appropriate sections)

Landfarmed x Amount Landfarmed (cubic yds) 266

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 20' X 20' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.*** Bedrock encountered at 25'. See attached risk analysis form and laboratory analysis.Ground Water Encountered: No ☒ Yes ☐ Depth _____

Final Pit Closure Sampling:

Sample Location Bottom of excavation.

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

Sample depth 18'Sample date 8/7/97 Sample time 1:00:00 PM

Sample Results

Benzene (ppm) 2.8460Total BTEX (ppm) *** 87.4690

Field headspace (ppm) _____

TPH (ppm) 34.00 Method 8015AVertical Extent (ft) 25' 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 January 27, 1998

SIGNATURE

PRINTED NAME Denver Bearden
AND TITLE Administrator III

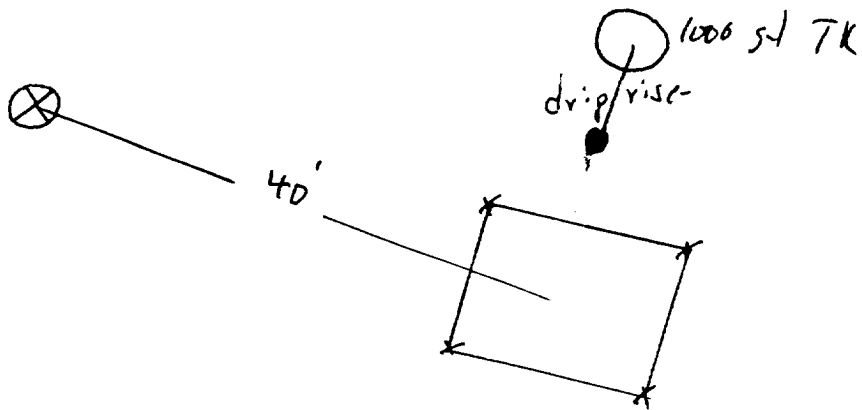
State A # 295

8-7-97

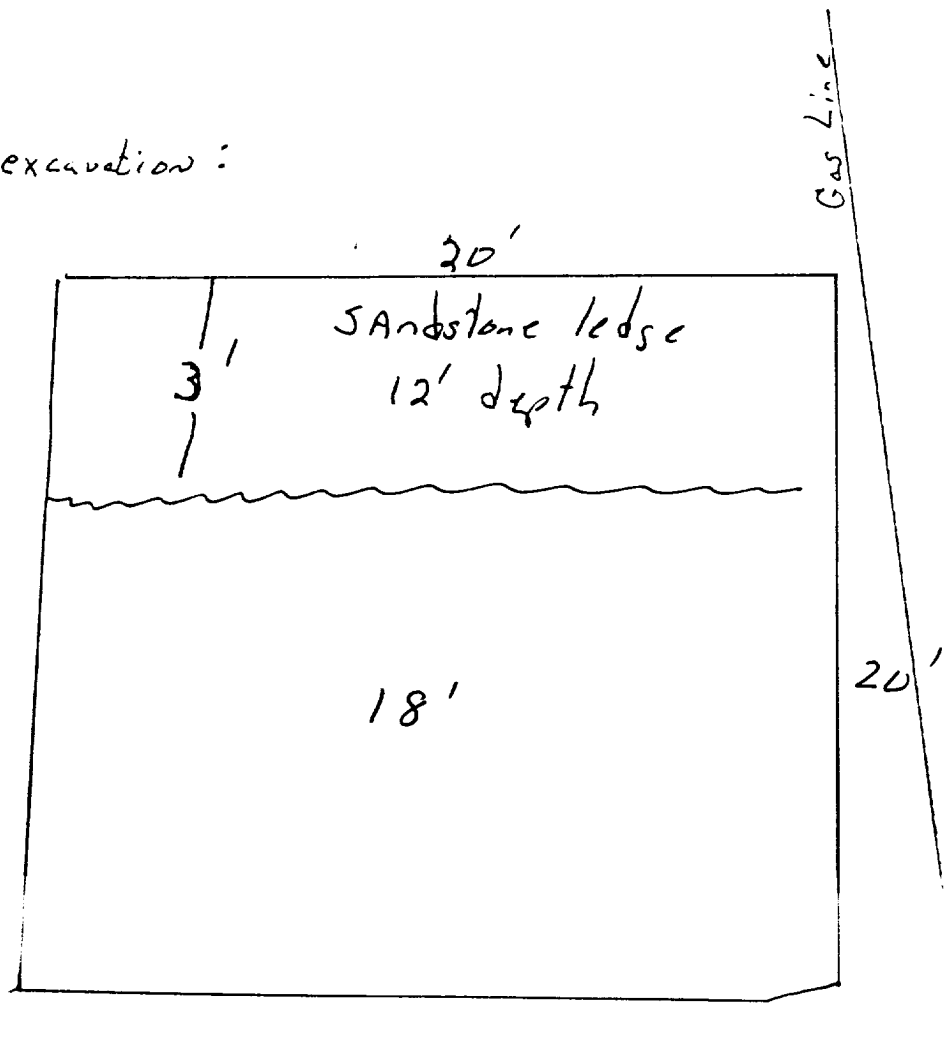
Can/Kins Oil

Sec. 16, 26 N, 6 W, T

start of excavation:



End of excavation:



Gas Line

20\''

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: *15-Aug-97*
COC No.: *5930*
Sample No.: *15720*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295*

Project Location: *9708071300; Bottom @ 18'*

Sampled by: GC Date: *7-Aug-97* Time: *13:00*

Analyzed by: DC Date: *12-Aug-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>2846</i>	<i>ug/kg</i>	<i>200</i>	<i>ug kg</i>
<i>Toluene</i>	<i>21825</i>	<i>ug/kg</i>	<i>200</i>	<i>ug kg</i>
<i>Ethylbenzene</i>	<i>7067</i>	<i>ug/kg</i>	<i>200</i>	<i>ug kg</i>
<i>m,p-Xylene</i>	<i>46159</i>	<i>ug/kg</i>	<i>200</i>	<i>ug kg</i>
<i>o-Xylene</i>	<i>9572</i>	<i>ug/kg</i>	<i>200</i>	<i>ug kg</i>
<i>TOTAL</i>	<i>87469</i>	<i>ug/kg</i>		

ND - Not Detected at Limit of Quantitation

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

Approved: *[Signature]*
Date: *8/15/97*

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: *15-Aug-97*
COC No.: *5930*
Sample No.: *15721*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295*
Project Location: *9708071330; Walls @ 16'*
Sampled by: *GC* Date: *7-Aug-97* Time: *13:30*
Analyzed by: *HR/DC* Date: *14-Aug-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	213	6.3	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	82	88	(70-130)	7	20%

Method - EPA 821-1-1 (Soil) - 821-1-1 (Soil) - 821-1-1 (Soil) - 821-1-1 (Soil) - 821-1-1 (Soil)

Approved by: *[Signature]*

Date: *8/15/97*

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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: *15-Aug-97*
COC No.: *5930*
Sample No.: *15721*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295*

Project Location: *9708071330; Walls @ 16'*

Sampled by: *GC* Date: *7-Aug-97* Time: *13:30*

Analyzed by: *DC* Date: *12-Aug-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	ND		ug/kg

ND - Not Detected at Limit of Quantitation

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

*Approved
Date 8/15/97*

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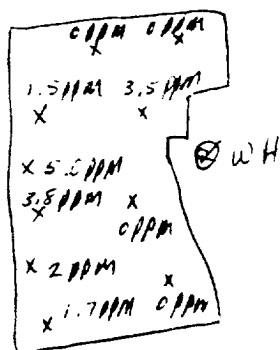
8-28-97 @
State A #245 0915
Caulkins

(J) 16-26N6W
Rio Arriba Co.

sample # 9708280915

Field head space of Landform - 4.8 ppm

"
2-12"



(45)

MH

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: *4-Sep-97*
COC No.: *5973*
Sample No.: *15990*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295 Landfarm*
Project Location: *9708280915; Composite Sample*
Sampled by: *RH* Date: *28-Aug-97* Time: *9:15*
Analyzed by: *DC/HR* Date: *3-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD


Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	204	2.0	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	71	74	(70-130)	3	20%

Method - *NIH 516 EPA Method 80151 mod - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: 
Date: *9/4/97*

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: *2-Sep-97*
COC No.: *5973*
Sample No.: *15990*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295 Landfarm*
Project Location: *9708280915; Composite Sample*

Sampled by: *RH* Date: *28-Aug-97* Time: *9:15*
Analyzed by: *HR* Date: *1-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
<i>TOTAL</i>	ND	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved: *[Signature]*
Date: *9/2/97*

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: *24-Nov-97*
COC No.: *5838*
Sample No.: *16874*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295*
Project Location: *9711131115; 25' depth*
Sampled by: *GC*
Analyzed by: *DC/HR*
Sample Matrix: *Soil*

Date: *13-Nov-97* Time: *11:15*
Date: *18-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>11</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>201</i>	<i>0.7</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>110</i>	<i>113</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

Method - *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524* *ASTM D1524*

Approved by: *[Signature]*
Date: *11/24/97*

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: *24-Nov-97*
COC No.: *5838*
Sample No.: *16874*
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #295*
Project Location: *9711131115; 25' depth*
Sampled by: *GC* Date: *13-Nov-97* Time: *11:15*
Analyzed by: *DC* Date: *18-Nov-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	50	ug/kg
<i>Toluene</i>	432	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	303	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	2943	ug/kg	50	ug/kg
<i>o-Xylene</i>	674	ug/kg	50	ug/kg
	<i>TOTAL</i>	4352	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved
Date: *12/1/97*



Well Name:	State A #295
Well Legals:	Unit J, Sec 16, T26N, R6W
Pit Type:	Drip
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the State A #295 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 170 ft. based upon elevation of site to the Largo Wash. (Reference: topographic map.)
2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.
3. Distance from the site to surface water is greater than 1,000 ft.
4. PNM excavated 266 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered @ 25 ft. below ground surface.

Based upon the information provided above, PNM believes the State A #295 poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 800 pits. Source removal minimizes the possibility of surface water contamination. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is highly unlikely.