

District I  
- P.O. Box 1980, Hobbs, NM

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

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

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

Risk  
TPH

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services (Dreyfus) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Burns Federal #1M

Location: Unit I Sec 5 T 26 N R 7 W County Rio Arriba

Pit Type: Separator ☐ Dehydrator ☒ Other                     

Land Type: BLM ☒ State ☐ Fee ☐ Other No

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 3 '

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 130'

Direction from reference: 70 Degrees ☒ East ☒ North ☐ 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) 10

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

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

(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): 20

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OIL CON. DIV  
DIST. 3

Burns Federal #1M

Date Remediation Started: 6/20/97

Date Completed: 6/20/97

## Remediation Method:

Excavation ☒

Approx. Cubic Yard 293

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 293

Other 93 cu. yds. clean overburden

## Remediation Location:

Onsite

Offsite

200 cu. yds. - Tierra Environmental

(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 20' X 22' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

\*\*\* Hit bedrock at 32'. See attached risk analysis form, lab analysis and boring log.

## 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' walls and 18' bottom.

Sample date

6/20/97

Sample time

1:00:00 PM

## Sample Results

Benzene (ppm) &lt; 0.0500

Total BTEX (ppm) 6.2960

Field headspace (ppm)

TPH (ppm)

1620.00 \*\*\*

Method

8015A

Vertical Extent (ft) 32'

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 January 26, 1999

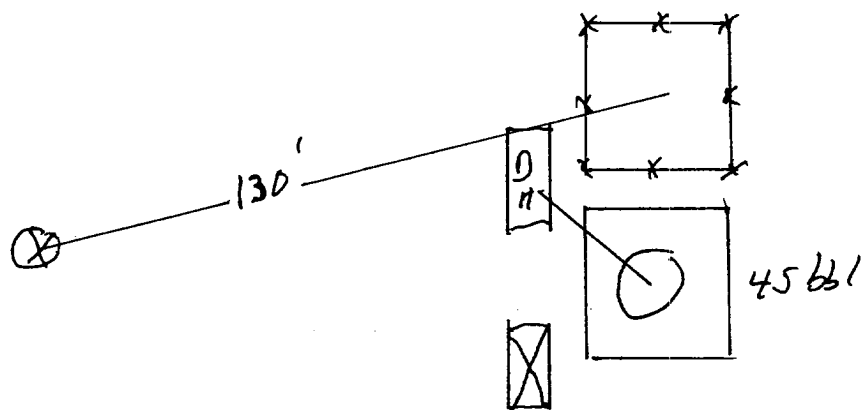
SIGNATURE

PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

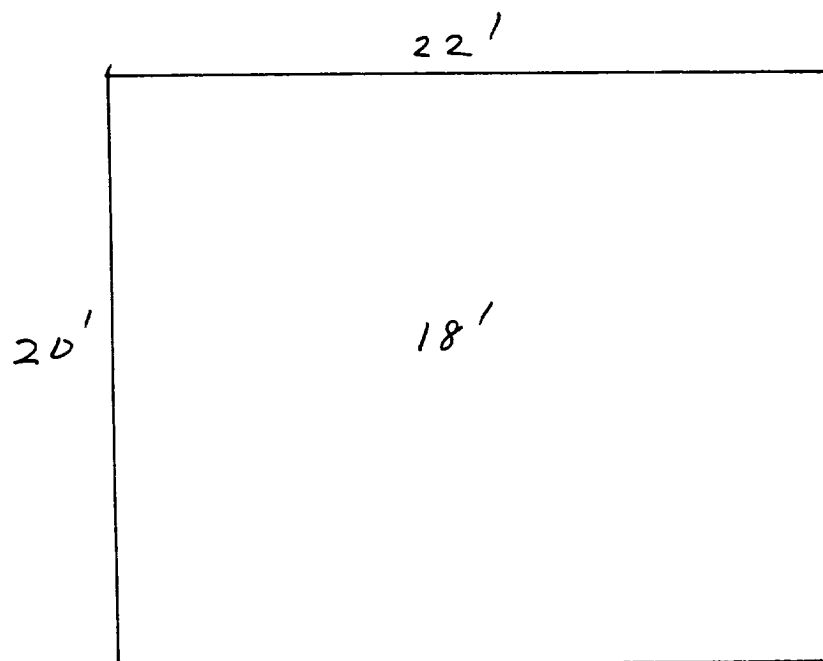
Burns Federal #1m  
Louis Dreyfus  
Sec. 5, 26N, 7W, I

6-20-97

Start of excavation:



End of excavation:



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: *25-Jun-97*  
COC No.: *5909*  
Sample No.: *15052*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Burns Federal #1M*  
Project Location: *9706201300; 4 Walls @ 16' & Bottom @ 18'*  
Sampled by: *GC* Date: *20-Jun-97* Time: *13:00*  
Analyzed by: *DC/HR* Date: *24-Jun-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>	<i>1620</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.: 0548-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>194</i>	<i>2.8</i>	<i>15%</i>

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>96</i>	<i>97</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *6/25/97*

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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: *2-Jul-97*  
COC No.: *5909*  
Sample No.: *15052*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Burns Federal #1M***  
Project Location: ***9706201300; 4 Walls @ 16' & Bottom @ 18'***  
Sampled by: GC Date: *20-Jun-97* Time: *13:00*  
Analyzed by: DC Date: *28-Jun-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>	672	ug/kg	50	ug/kg
<i>Ethylbenzene</i>	2898	ug/kg	50	ug/kg
<i>m,p-Xylene</i>	2515	ug/kg	50	ug/kg
<i>o-Xylene</i>	211	ug/kg	50	ug/kg
TOTAL		6296	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*  
Date: *7/2/97*



## Environmental Services

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Well Name:	Burns Federal #1M
Well Legals:	Unit I, Sec 5, T26N, R7W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	50 feet to 99 feet

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### **RISK ANALYSIS**

PNM requests closure of the Burns Federal #1M using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 60 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 293 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered @ 32 ft. below ground surface.

Based upon the information provided above, PNM believes the Burns Federal #1M 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.

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.: *5830*  
Sample No.: *16826*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Burns Federal #1M*  
Project Location: *9711111115; 32' depth*  
Sampled by: *GC* Date: *11-Nov-97* Time: *11:15*  
Analyzed by: *DC/HR* Date: *18-Nov-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.: 0555-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	201	0.7	15%

#### Matrix Spike

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

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

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

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**ON SITE**  
TECHNOLOGIES, LTD.

**TECHNOLOGIES, LTD.**

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


Date: 17-Nov-97  
COC No.: 5830  
Sample No.: 16826  
Job No.: 2-1000

Project Location: **9711111115; 32' depth**

Sampled by:	GC	Date:	11-Nov-97	Time:	11:15
Analyzed by:	DC	Date:	14-Nov-97		
Sample Matrix:	Soil				

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	1	ug/kg
Toluene		2	ug/kg	1	ug/kg
Ethylbenzene		3	ug/kg	1	ug/kg
m,p-Xylene		71	ug/kg	1	ug/kg
o-Xylene		20	ug/kg	1	ug/kg
	TOTAL	96	ug/kg		

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

Approved by:   
Date: 11/17/97

**P.O. BOX 2606 • FARMINGTON, NM 87499**

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