

Denny E. Faust

District I
P.O. Box 1980, Hobbs, NM 88241
DEPUTY OIL & GAS INSPECTOR

District II
P.O. Drawer DD, Artesia, NM 88213
JUN 23 1998

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Primo #1

Location: Unit K Sec 6 T 31 N R 10 W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

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

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 310'

Direction from reference: 75 Degrees ☐ East ☐ North ☐
☒ West ☒ South

Depth to Ground Water:

(Vertical distance from contaminant 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 (20 points)
No (0 points) 0

Distance to Surface Water:

(Horizontal distance from contaminant to
surface water body)

Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

RECEIVED
FEB - 3 1998
OIL CON. DIV
DIST. 3

Q44-11324

WILLIAM B. ...

Pnmo #1

Date Remediation Started: 5/5/97 Date Completed: 5/6/97

Remediation Method: Excavation X Approx. Cubic Yard 198

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 198

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 18' x 33' x 9' 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.

*** Sandstone encountered at 9'. See attached risk analysis form and laboratory results.

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 9'

Sample date 5/5/97 Sample time 2:30:00 PM

Sample Results

Benzene (ppm) 0.8850

Total BTEX (ppm) *** 132.3090

Field headspace (ppm) _____

TPH (ppm) 258.00 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 January 27, 1998

SIGNATURE

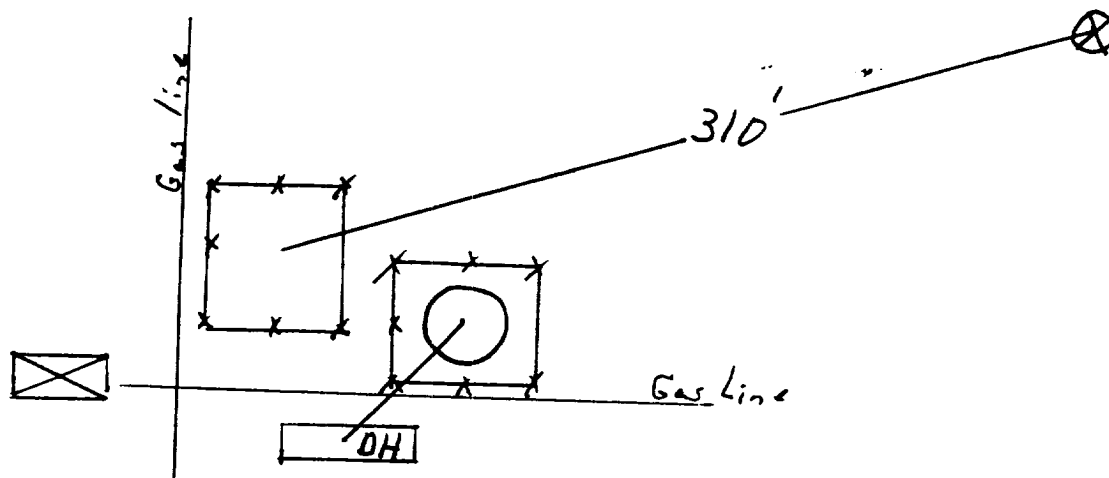
Denver Bearden

PRINTED NAME AND TITLE Denver Bearden
Administrator III

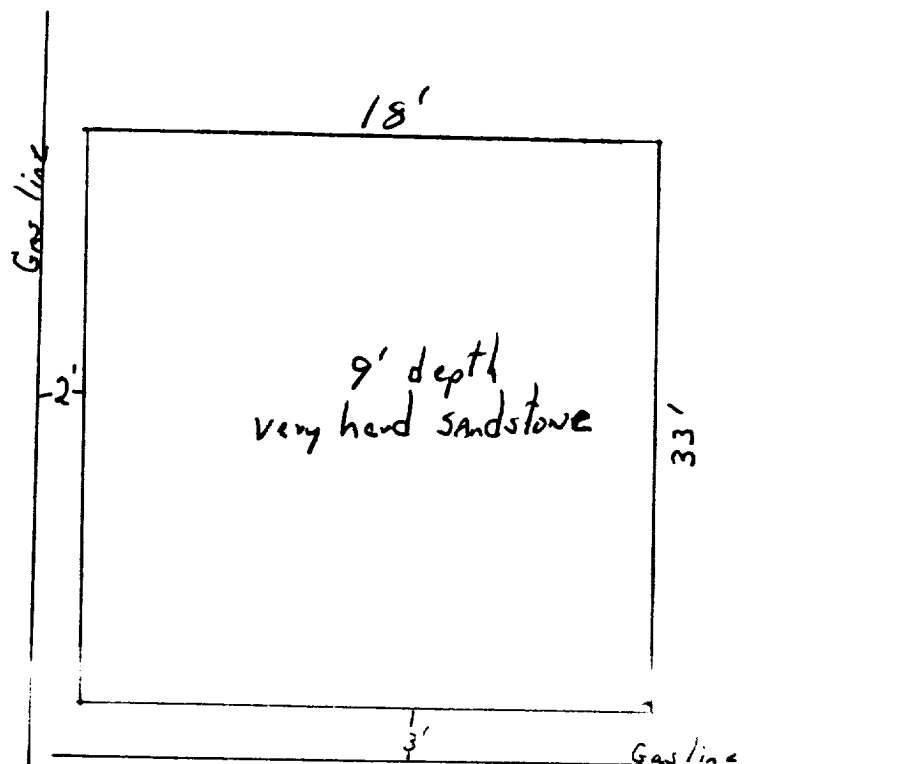
Primo #1
CONOCO Inc.
Sec. 6, 31 N, 10 W, R

5-5-97

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: *12-May-97*
COC No.: *5874*
Sample No.: *14432*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Primo #1*
Project Location: *9705051430; Composite, 4 Walls and Bottom*
Sampled by: *GC* Date: *5-May-97* Time: *14:30*
Analyzed by: *HR/DC* Date: *9-May-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>258</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.: *0519-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>100</i>	<i>106</i>	<i>6.2</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>100</i>	<i>109</i>	<i>(70-130)</i>	<i>8</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *5/12/97*

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: *14-May-97*
COC No.: *5874*
Sample No.: *14432*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Primo #1*
Project Location: *9705051430; Composite, 4 Walls & Bottom*
Sampled by: *GC* Date: *5-May-97* Time: *14:30*
Analyzed by: *DC* Date: *6-May-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	885	ug/kg	500	ug/kg
<i>Toluene</i>	22782	ug/kg	500	ug/kg
<i>Ethylbenzene</i>	8371	ug/kg	500	ug/kg
<i>m,p-Xylene</i>	82253	ug/kg	500	ug/kg
<i>o-Xylene</i>	18017	ug/kg	500	ug/kg
<i>TOTAL</i>	132309	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: *5/14/97*

↑
N

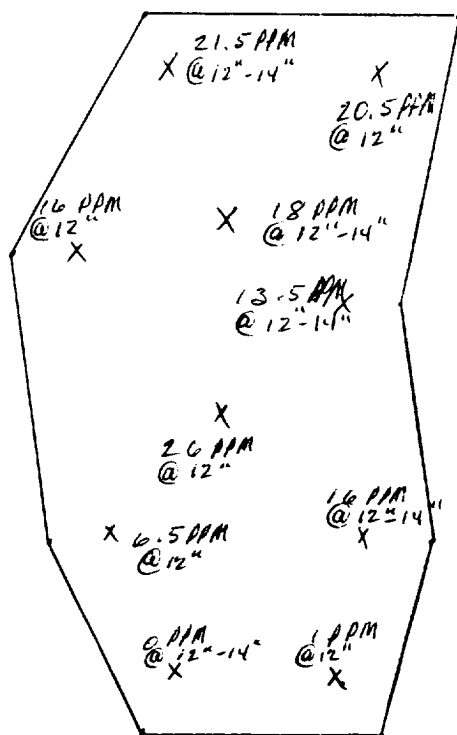


Figure 1
6-16-97 @ 1315

See analysis for field headspace vdg
(BTEX)

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: *20-Jun-97*
COC No.: *5161*
Sample No.: *14964*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Primo #1 Landfarm*
Project Location: *9706161315; 10pt. Composite*
Sampled by: *RH* Date: *16-Jun-97* Time: *13:15*
Analyzed by: *DC/HR* Date: *19-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>	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	195	2.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	88	95	(70-130)	9	20%

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

Approved by: _____

Date: *6/20/97*

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: *19-Jun-97*
COC No.: *5161*
Sample No.: *14964*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Primo #1 Landfarm*
Project Location: *9706161315; 10pt. Composite*
Sampled by: *RH* Date: *16-Jun-97* Time: *13:15*
Analyzed by: *HR* Date: *18-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	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>	1	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	3		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: _____

Date: *6/19/97*



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Primo #1

Unit K, Sec 6, T31N, R10W

Dehydrator

Greater than 1,000 ft

Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Primo #1 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 130 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 198 cu. yds. from the former pit. Sandstone was encountered @ 9 ft. below ground surface.

Based upon the information provided above, PNM believes the Primo #1 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.