

District I
P.O. Box 1963, 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

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

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

JUL 18 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Hampton #4

Location: Unit: D Sec. 13 T. 30 N R. 11 W County San Juan

Pit Type: Separator Dehydrator ✓ Other No

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: 58'

Direction from reference: 5 Degrees ✓ East North ✓
of
 West South

Depth to Ground Water:

(Vertical distance from contaminants 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 to perennial lakes,
ponds, rivers, streams, creeks, irrigation
canals and ditches)

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

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DIST. 3

Date Remediation Started: <u>4/22/96</u>		Date Completed: <u>4/23/96</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>X</u>	Approx. Cubic Yard <u>347</u>
	Landfarmed	<u>X</u>	Amount Landfarmed (cubic yds) <u>347</u>
	Other	<u></u>	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)		Onsite <u>X</u>	Offsite <u></u>
Backfill Material Location: <u></u>			
General Description of Remedial Action: Excavated contaminated soil to pit size 20'x36'x13' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels. *** Vertical extent at 15' provided BTEX at .362 ppm; THP was not detected. See attached risk analysis form and lab analysis. <u></u> <u></u> <u></u>			
Ground Water Encountered:		No <u>✓</u>	Yes <u></u> Depth <u></u>

Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample Location <u>5 pt. composite- 4 side walls and center of pit bottom</u>	
	Sample depth <u>13'</u>	
	Sample date <u>4/23/96</u>	Sample time <u>11:00:00 AM</u>
	Sample Results	
	Benzene (ppm) <u>0.5739</u>	
Total BTEX (ppm) <u>*** 63.0825</u>		
Field headspace (ppm) <u></u>		
TPH <u>106.00</u> Method <u>8015A</u>		
Vertical Extent (ft) <u>15'</u>	Risk Assessment form attached Yes <u>✓</u> No <u></u>	
Ground Water Sample:	Yes <u></u> No <u>✓</u>	(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 28, 1997

SIGNATURE

Denver Bearden

PRINTED NAME
AND TITLE

Denver Bearden
Administrator III



Well Name:	Hampton #4
Well Legals:	Unit D, Sec 13, T30N, R11W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Hampton #4 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 125 ft. based upon elevation of site to the San Juan River. (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 347 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered at 15 ft. below ground surface.

Based upon the information provided above, PNM believes the Hampton #4 poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 400 pits. Source removal minimizes the possibility of surface water contamination. Bedrock provides an impermeable layer between remaining contamination and groundwater. Vertical migration through bedrock to groundwater is highly unlikely.

Hampton # 4

Meridian Oil

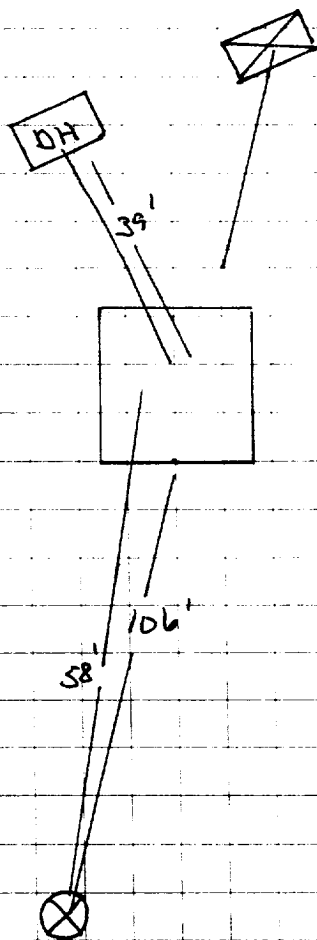
Sec. 13, T30N, R11W

970' FNL + 1140' FWL

Run # 10-42

4-22-96

5° East of North



OFF: (505) 325-8786



LAB: (505) 325-5667

Diesel Range Organics EPA 8015-Modified

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

Date: *25-Apr-96*
COC No.: *4612*
Sample No. *10706*
Job No. *2-1000*

Project Name: ***PNM Gas Services - Hampton #4***
Project Location: ***9604231100; 5pt. Composite, 4 Walls & Bottom, 13'***
Sampled by: GC Date: *23-Apr-96* Time: *11:00*
Analyzed by: DC Date: *24-Apr-96*
Sample Matrix: *Soil*

Laboratory Analysis

Analyte	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>106.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0446-STD*

Calibration Check

Analyte	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<i>Diesel Range (C10 - C28)</i>	<i>< 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>2,038</i>	<i>1.9</i>	<i>15%</i>

Matrix Spike

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<i>Diesel Range (C10-C28)</i>	<i>101</i>	<i>101</i>	<i>(70-130)</i>	<i>0</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *4/25/96*

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: *24-Apr-96*
COC No.: *4612*
Sample No. *10706*
Job No. *2-1000*

Project Name: *PNM Gas Services - Hampton #4*
Project Location: *9604231100; 5pt. Composite, 4 Walls & Bottom, 13'*
Sampled by: *GC* Date: *23-Apr-96* Time: *11:00*
Analyzed by: *DC* Date: *24-Apr-96*
Type of Sample: *Soil*

Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i>573.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>20574.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>2963.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>32683.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>6286.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>63082.5</i>		<i>ug/kg</i>

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

Approved by: *[Signature]*
Date: *4/25/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

HAMPTON #4
Meridian
Sec. 13-30N-11W

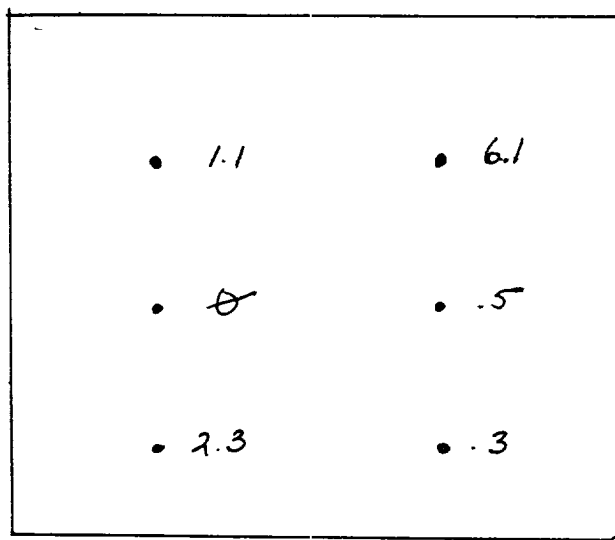
July 23, 1996

Land Farm: On Location
347 Yards

Composite Sample #: 9607231015

Soil Vapor Head-Space Reading = 48.2 ppm (PID)

Sample depths between 2" and 12"



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: *24-Jul-96*
COC No.: *4909*
Sample No. *11573*
Job No. *2-1000*

Project Name: *PNM Gas Services - Hampton #4 Landfarm*
Project Location: *9607231015; 6pt. Composite, 2" - 12" depth*
Sampled by: *GC* Date: *23-Jul-96* Time: *10:15*
Analyzed by: *HR* Date: *24-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>< 5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0479-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>< 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,798</i>	<i>10.1</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>98</i>	<i>100</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *7/24/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Public Service Co. of NM.	Project #:	93108-02
Sample ID:	TB #1	Date Reported:	12-17-96
Laboratory Number:	A841	Date Sampled:	12-16-96
Chain of Custody:	5035	Date Received:	12-16-96
Sample Matrix:	Soil	Date Analyzed:	12-17-96
Preservative:	Cool	Date Extracted:	12-17-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	41.4	8.4
Ethylbenzene	134	7.6
p,m-Xylene	177	10.8
o-Xylene	9.8	5.2
Total BTEX	362	

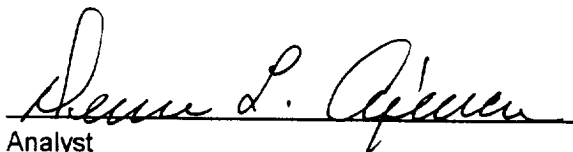
ND - Parameter not detected at the stated detection limit.

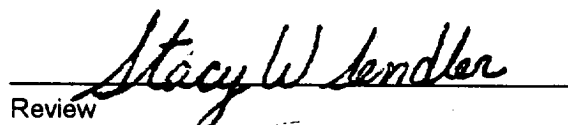
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	95 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: 2.1 Miles South on CR 2585, Hampton #4 (@ 15' bgs).


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

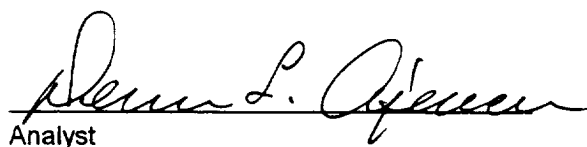
Client:	Public Service Co. of NM	Project #:	93108-02
Sample ID:	TB #1	Date Reported:	12-17-96
Laboratory Number:	A841	Date Sampled:	12-16-96
Chain of Custody No:	5035	Date Received:	12-16-96
Sample Matrix:	Soil	Date Extracted:	12-17-96
Preservative:	Cool	Date Analyzed:	12-17-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: 2.1 Miles South on CR 2585, Hampton #4 (@ 15' bgs).


Analyst


Review