

District I
P O Box 1980
SANTA FE, NM
District II
P O Drawer 607
Artesia, NM 88221
District III
1000 Rio Brazos Rd
Aztec, NM 87410

Denny J. Faust
DEPUTY OIL & GAS INSPECTOR

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

FEB 28 1997

Approved

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
OCT 31 1996

OIL CON. DIV.
DIST. 3

Operator:	PNM Gas Services (Amoco)	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401		
Facility or Well Name:	Howell #2A		
Location:	Unit: <u> O </u>	Sec. <u> 10 </u>	T. <u> 30 N </u> R. <u> 8 W </u> County <u> San Juan </u>
Pit Type:	Separator <u> </u>	Dehydrator <input checked="" type="checkbox"/>	Other <u> </u>
Land Type:	BLM <input checked="" type="checkbox"/>	State <u> </u>	Fee <u> </u> Other <u> </u>
Pit Location:	Pit dimensions: length <u> 18 </u> width <u> 18 </u> depth <u> 3 </u>		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <u> </u>		
	Footage from reference: <u> 100' </u>		
	Direction from reference: <u> 30 </u> Degrees <input type="checkbox"/> East <input type="checkbox"/> North <input type="checkbox"/>		
	of		
	<input checked="" type="checkbox"/> West <input checked="" type="checkbox"/> South		
Depth to Ground Water:	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u> 20 </u>
<small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>			
Wellhead Protection Area:	Yes	(20 points)	
	No	(0 points)	<u> 0 </u>
<small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>			
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)	<u> 10 </u>
<small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>			
RANKING SCORE (TOTAL POINTS) :			<u> 30 </u>

Date Remediation Started: 7/18/96 Date Completed: 7/20/96

Remediation Method: Excavation Approx. Cubic Yard 248

(Check all appropriate sections)

Landfarmed Amount Landfarmed (cubic yds) 208

Other _____

Remediation Location: Onsite 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 28'x30'x8' 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.

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 8'

Sample date 7/18/96 Sample time 2:15:00 PM

Sample Results

Benzene (ppm) 0.0010

Total BTEX (ppm) 2.8963

Field headspace (ppm) _____

TPH < 5.00 Method 8015A

Vertical Extent (ft) _____ Risk Assessment form attached Yes No

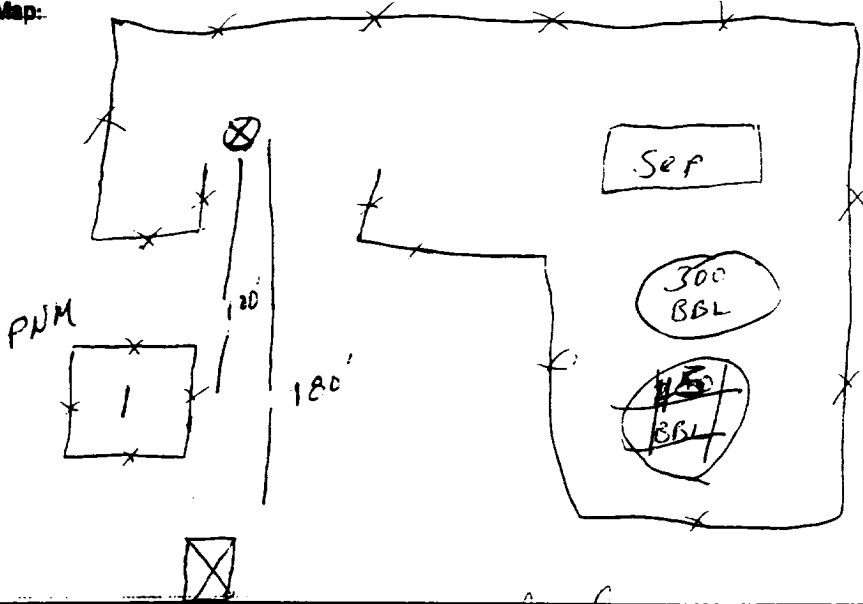
Ground Water Sample: Yes No (If yes, attach sample results)

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

Site Map:



Rand D. DeLuca

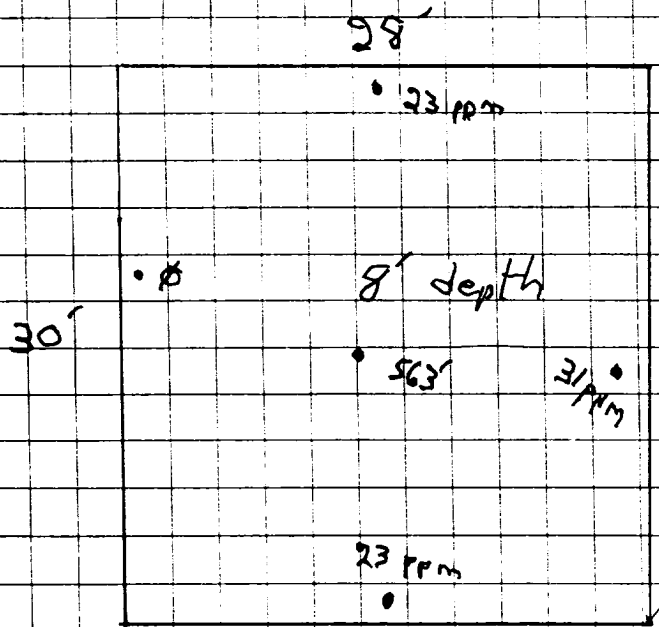
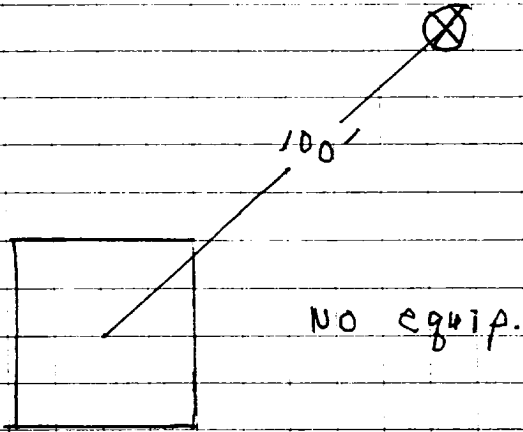
1-15-96

Howell 2A

7-18-96

Amocs

Sec 10, 30N, 8W, 0



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: *19-Jul-96*
 COC No.: *4741*
 Sample No. *11541*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Howell #2A*
 Project Location: *9607181415; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *18-Jul-96* Time: *14:15*
 Analyzed by: *HR/DC* Date: *19-Jul-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<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

Parameter	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>1,912</i>	<i>4.4</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
<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: *2/22/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

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

Date: *19-Jul-96*
 COC No.: *4741*
 Sample No.: *11541*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Howell #2A*
 Project Location: *9607181415; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *18-Jul-96* Time: *14:15*
 Analyzed by: *DC* Date: *19-Jul-96*
 Sample Matrix: *Soil*

Laboratory Analysis

<i>Component</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i>1.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>137.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>71.3</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>2077.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>609.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>2896.3</i>	<i>ug/kg</i>		

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

Approved by: *JAC*
 Date: *7/22/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Howell 2A

9-10-96

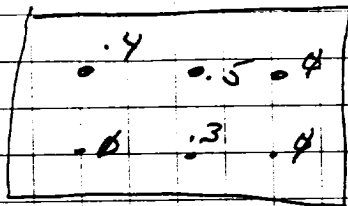
Amoco

Sec. 10 - 30N, 8W

Land Farm: On location

Composite sample # 9609101030 6pt.

Soil Vapor head space PID reading: 3.4 ppm



2"-12" depth
cobbles

⊗



Diesel Range Organics

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

Date: *12-Sep-96*
 COC No.: *5006*
 Sample No.: *12088*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Howell #2A Landfarm*
 Project Location: *9609101030; 6pt. Composite, 2"-12" depth*
 Sampled by: *GC* Date: *10-Sep-96* Time: *10:30*
 Analyzed by: *DC/HR* Date: *12-Sep-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.: 0489-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>100</i>	<i>104</i>	<i>4.2</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>96</i>	<i>95</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: *9/12/96*