

District I
P.O. Box 1990, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88221
District III
1000 Rio Brazos Rd, Aztec, NM 87410

George E. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 28 1997

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
OCT 31 1997
OIL CONSERV. DIV.

Operator: PNM Gas Services (Amoco)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Helen Jackson #1A			
Location:	Unit <u>A</u>	Sec. <u>34</u>	T. <u>29 N</u> R. <u>9 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>20</u> width <u>20</u> depth <u>3</u>		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <u> </u>		
	Footage from reference: <u>130'</u>		
	Direction from reference: <u>85</u> Degrees <u> </u> East North <u> </u>		
	<input checked="" type="checkbox"/> West of South <input checked="" type="checkbox"/>		
Depth to Ground Water:	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)		<u>0</u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)			
Wellhead Protection Area:	Yes (20 points) No (0 points)		<u>0</u>
(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)		<u>0</u>
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started:	<u>8/9/96</u>	Date Completed:	<u>8/9/96</u>
Remediation Method:	Excavation <u>X</u>	Approx. Cubic Yard	<u>96</u>
(Check all appropriate sections)	Landfarmed <u>X</u>	Amount Landfarmed (cubic yds)	<u>96</u>
	Other _____		
Remediation Location:	Onsite <u>X</u>	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 18'x18'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 <u>✓</u>	Yes _____	Depth _____

Final Pit Closure Sampling:	Sample Location	<u>5 pt composite-4 side walls and center of pit bottom</u>	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	<u>8'</u>	
	Sample date	<u>8/9/96</u>	Sample time <u>10:00:00 AM</u>
	Sample Results		
	Benzene (ppm)	<u>0.0382</u>	
	Total BTEX (ppm)	<u>0.4212</u>	
	Field headspace (ppm)	_____	
	TPH	<u>< 5.00</u>	Method <u>8015A</u>
Vertical Extent (ft) _____	Risk Assessment form attached Yes _____ No <u>✓</u>		
Ground Water Sample:	Yes _____	No <u>✓</u>	(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

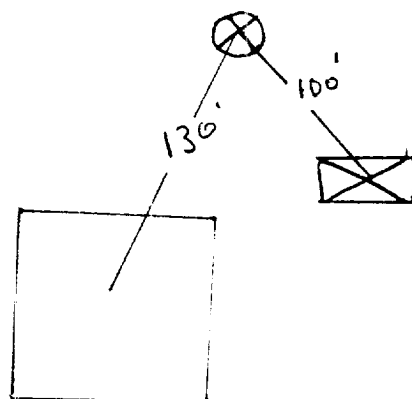
DATE October 25, 1996

SIGNATURE *Maureen Gannon*

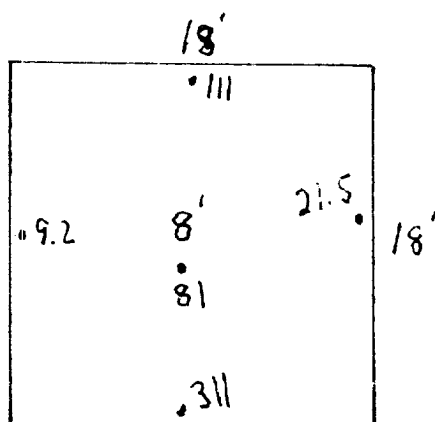
PRINTED NAME AND TITLE Maureen Gannon
Environmental Engineer

Helen Jackson #1A
 Amoco
 Sec. 34, 29N, 9W

Pit dimensions at start: 20 X 20 X 3



Excavated pit dimensions: 18 X 18 X 8



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: *13-Aug-96*
 COC No.: *4963*
 Sample No. *11713*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Helen Jackson #1A*
 Project Location: *9608091000; 5pt. Composite, 4 Walls @ 6' and Bottom @ 8'*
 Sampled by: *GC* Date: *9-Aug-96* Time: *10:00*
 Analyzed by: *DC* Date: *13-Aug-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 ReportDRO 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>100</i>	<i>97</i>	<i>2.7</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>112</i>	<i>114</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: *De G*Date: *8/13/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *13-Aug-96*
COC No.: *4963*
Sample No.: *11713*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Helen Jackson #1A*
Project Location: *9608091000; 5pt. Composite, 4 Walls @ 6' and Bottom @ 8'*
Sampled by: *GC* Date: *9-Aug-96* Time: *10:00*
Analyzed by: *DC* Date: *13-Aug-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>Benzene</i>	<i>38.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>21.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>22.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>288.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>51.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>421.2</i>	<i>ug/kg</i>		

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

Approved by: *[Signature]*
Date: *8/13/96*

Helen Jackson #1A

9-10-96

Amoco

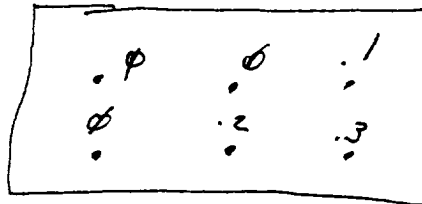
Sec. 34, 29N, 9W

Land Farm: On-location

Composite sample # 960910 1415 6 pt.

soil vapor head space PID reading: -9 ppm

⊗



2"-12" depth
sand & sandstone

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: *12-Sep-96*
COC No.: *5026*
Sample No. *12103*
Job No. *2-1000*

Project Name: *PNM Gas Services - Helen Jackson #1A Landfarm*
Project Location: *9609101415; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *10-Sep-96* Time: *14:15*
Analyzed by: *BV* 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>3.6</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*

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