

District 1
1000 Rio

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

FFB 208 1997

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
OCT 3 1955
G. C. B. DIV.

Operator: PNM Gas Services (Amoco)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Florance #24			
Location:	Unit: A	Sec: 23	T. 29 N R. 9 W County San Juan
Pit Type:	Separator	Dehydrator	Other
Land Type:	BLM	State	Fee Other
Pit Location:	Pit dimensions:	length 15	width 15 depth 3
(Attach diagram)	Reference:	wellhead	other
	Footage from reference:	132'	
	Direction from reference:	45 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)
(Vertical distance from contaminants to seasonal high water elevation of ground water)			10
Wellhead Protection Area:		Yes	(20 points)
		No	(0 points)
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)			0
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)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			10
RANKING SCORE (TOTAL POINTS) :			20

Date Remediation Started: <u>7/31/96</u>		Date Completed: <u>8/2/96</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>X</u>	Approx. Cubic Yard <u>174</u>
	Landfarmed	<u>X</u>	Amount Landfarmed (cubic yds) <u>174</u>
	Other _____		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)		Onsite <u>X</u>	Offsite <u>Florance #85 (23-29N-9W) - 74 cu yds.</u>
Backfill Material Location: _____			
General Description of Remedial Action: Excavated contaminated soil to pit size of 24'x14'x14' and landfarmed soil onsite/offsite 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: (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>14'</u>		
	Sample date	<u>7/31/96</u>	Sample time	<u>2:30:00 PM</u>
	Sample Results			
	Benzene (ppm)	<u>0.5290</u>		
	Total BTEX (ppm)	<u>18.7390</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

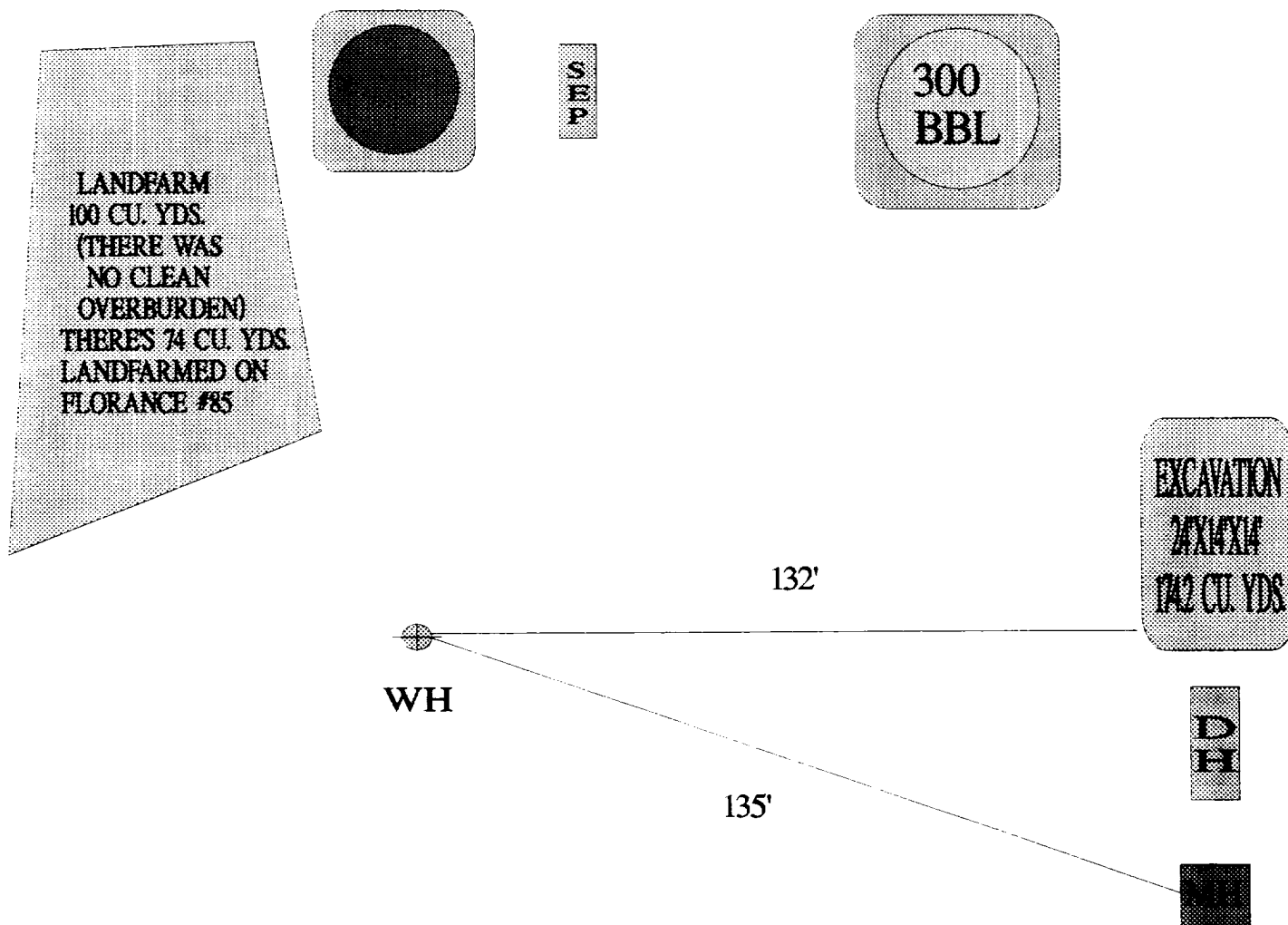
DATE October 25, 1996

SIGNATURE *Maureen Gannon*

PRINTED NAME AND TITLE Maureen Gannon
Environmental Engineer

FLORANCE #24 EXCAVATION

08/02/96



LANDFARM
100 CU. YDS.
(THERE WAS
NO CLEAN
OVERBURDEN)
THERE'S 74 CU. YDS.
LANDFARMED ON
FLORANCE #85

S
E
P

300
BBL

132'

WH

EXCAVATION
24X14X14
1742 CU. YDS.

D
H

135'

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: *5-Aug-96*
COC No.: *4733*
Sample No.: *11667*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Florance #24*
Project Location: *9607311430; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *31-Jul-96* Time: *14:30*
Analyzed by: *DC/HR* Date: *5-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 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>1,883</i>	<i>5.8</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>93</i>	<i>99</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *8/5/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *2-Aug-96*
COC No.: *4733*
Sample No.: *11667*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Florance #24*
Project Location: *9607311430; Pit Excavation Composite Sample*
Sampled by: *RH* Date: *31-Jul-96* Time: *14:30*
Analyzed by: *HR* Date: *1-Aug-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	529.0	ug/kg	0.2	ug/kg
Toluene	6671.9	ug/kg	0.2	ug/kg
Ethylbenzene	343.2	ug/kg	0.2	ug/kg
m,p-Xylene	9294.3	ug/kg	0.2	ug/kg
o-Xylene	1900.7	ug/kg	0.2	ug/kg
TOTAL		18739.0	ug/kg	

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

Approved by: *[Signature]*
Date: *8/2/96*

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Florange # 24

9-10-96

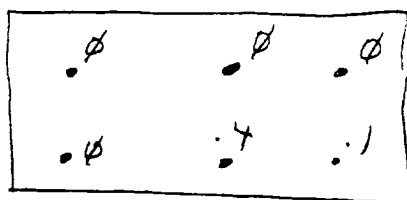
Amoco

Sec. 23, 29N, 9W

Land Farm: On-location

Composite sample # 9609101245 6pt comp.

Soil vapor head space PIO reading: 6.1 ppm



2"-12" depth
sand

Q

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.: *5015*
Sample No. *12097*
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #24 Landfarm*
Project Location: *9609101245; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *10-Sep-96* Time: *12:45*
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>67.2</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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