

District I
P O. Box 100
Donny S. 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

District III
1000 Rio Brazos Rd. Aztec, NM 87410
FEB 28 1997

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RECEIVED
OCT 31 1993

OIL CON. DIV.
1993

Approval
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Florance #42
Location: Unit: M Sec. 27 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: 66'
Direction from reference: 90 Degrees ☒ East North ☒
of ☐ 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) 10

(Vertical distance from contaminants to
seasonal high water elevation of ground
water)

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

(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) 0

(Horizontal distance to perennial lakes,
ponds, rivers, streams, creeks, irrigation
canals and ditches)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: <u>8/12/96</u>		Date Completed: <u>8/13/96</u>	
Remediation Method: (Check all appropriate sections)	Excavation <u>X</u>	Approx. Cubic Yard <u>320</u>	
	Landfarmed <u>X</u>	Amount Landfarmed (cubic yds) <u>320</u>	
	Other _____		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite <u>X</u>	Offsite _____	
Backfill Material Location: _____			
General Description of Remedial Action: Excavated contaminated soil to pit size of 20'x24'x18' 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><input checked="" type="checkbox"/></u> Yes <u><input type="checkbox"/></u> 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>18'</u>
	Sample date <u>8/13/96</u> Sample time <u>10:00:00 AM</u>
	Sample Results
	Benzene (ppm) <u>0.0045</u>
	Total BTEX (ppm) <u>0.2493</u>
	Field headspace (ppm) _____
	TPH <u>< 5.00</u> Method <u>8015A</u>
Vertical Extent (ft) _____	Risk Assessment form attached Yes <u><input type="checkbox"/></u> No <u><input checked="" type="checkbox"/></u>
Ground Water Sample: Yes <u><input type="checkbox"/></u> No <u><input checked="" type="checkbox"/></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

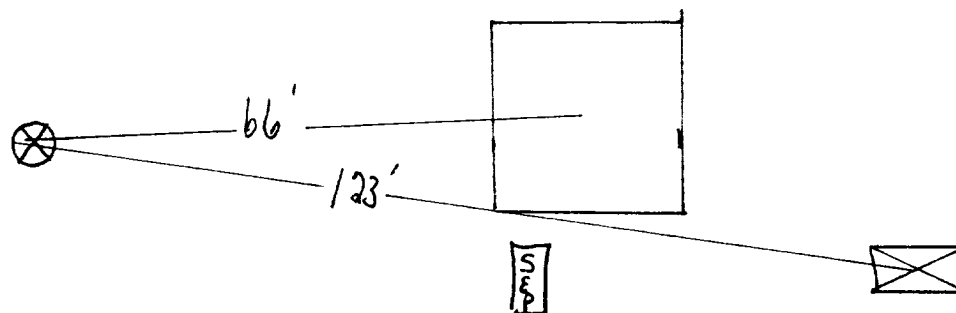
SIGNATURE Maureen Gannon

PRINTED NAME
AND TITLE

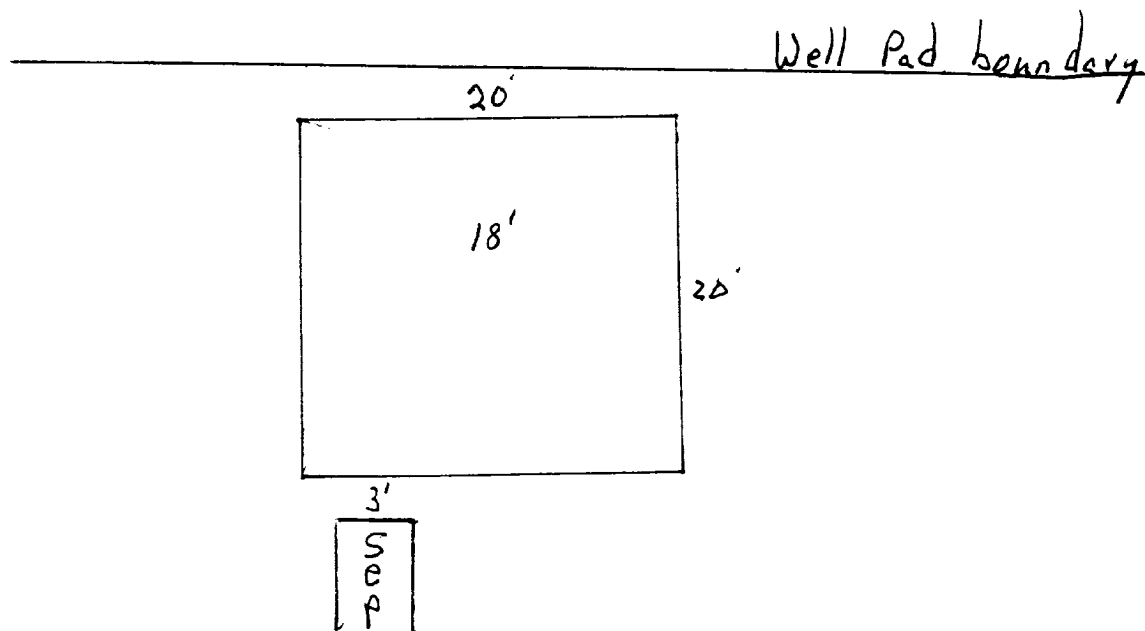
Maureen Gannon
Environmental Engineer

FLORANCE #42
AMOCO
Sec. 27, 29N, 9W, M

PIT DIMENSIONS AT START: 20X20X3



EXCAVATION DIMENSIONS AT END: 20X20X18=240 YDS.



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: *14-Aug-96*
COC No.: *4965*
Sample No. *11771*
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #42*
Project Location: *9608131000; 5pt. Composite, 4 Walls @ 16' and Bottom @ 21'*
Sampled by: GC Date: *13-Aug-96* Time: *10:00*
Analyzed by: DC Date: *14-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>100</i>	<i>99</i>	<i>0.8</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>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 Chromatography

Approved by: *Doc*
Date: *8/14/96*

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: *14-Aug-96*
COC No.: *4965*
Sample No.: *11771*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Florance #42*
Project Location: *9608131000; 5pt. Composite, 4 Walls @ 16' and Bottom @ 21'*
Sampled by: *GC* Date: *13-Aug-96* Time: *10:00*
Analyzed by: *DC* Date: *14-Aug-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	4.5	ug/kg	0.2	ug/kg
Toluene	34.5	ug/kg	0.2	ug/kg
Ethylbenzene	29.5	ug/kg	0.2	ug/kg
m,p-Xylene	149.6	ug/kg	0.2	ug/kg
o-Xylene	31.2	ug/kg	0.2	ug/kg
TOTAL		249.3		ug/kg

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

Approved by: *Daff*
Date: *8/14/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Florence #42

9-10-96

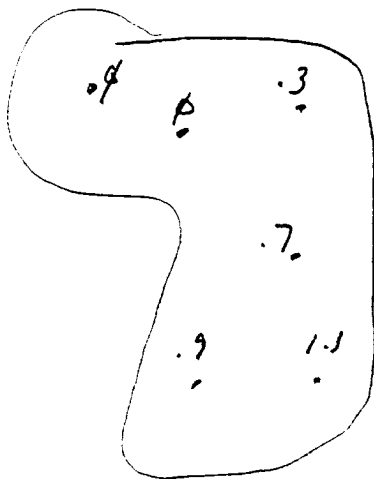
Amoco

Sec. 27, 29N, 9W

Land Farm: On-location

Composite sample # 960910 1445 6pt

soil vapor head space PID reading: 3.2 ppm



2"-12" depth
sand & clay

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-Sep-96*
COC No.: *5028*
Sample No. *12105*
Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #42 Landfarm*
Project Location: *9609101445; 6pt. Composite, 2"-12" depth*
Sampled by: *GC* Date: *10-Sep-96* Time: *14:45*
Analyzed by: *DC* Date: *13-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>148.7</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>95</i>	<i>5.3</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>82</i>	<i>96</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *9/13/96*