District I
P O Box 1980 Hobbs NM

District II
P O Drawer DD Artesia NM 88221

District III
1000 Rio Brazos Rd Aztec NM 87410

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR
JUL 1 8 1997

Approved

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

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Florance AA #14A

Location: Unit: C Sec. 8 T. 30 N R. 9 W County San Juan

Pit Type: Separator ___ Dehydrator ✔ Other one inactive PNM pit

Land Type: BLM ✔ State ___ Fee ___ Other No

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 5 '

(Attach diagram) Reference: wellhead ✔ other ___

Footage from reference: 75'

Direction from reference: 30 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

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DIST. 3

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

Florance AA #14A

Date Remediation Started: 6/20/96 **Date Completed:** 6/24/96

Remediation Method: Excavation X Approx. Cubic Yard 203

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 203

Other

Remediation Location: Onsite X 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 18'x19'x16' 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 80.5' provided BTEX at 36.04 ppm and TPH at 733 ppm. Bedrock was encountered at 80.5'. See attached risk analysis form and lab analysis.

Ground Water Encountered: No ✓ Yes Depth

Final Pit Closure Sampling:

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample Location 5 pt. composite-4 side walls and center of pit bottom

Sample depth 16'

Sample date 6/21/96 Sample time 10:40:00 AM

Sample Results

Benzene (ppm) 0.0547

Total BTEX (ppm) *** 58.1347

Field headspace (ppm)

TPH 165.60 Method 8015A

Vertical Extent (ft) 80.5' Risk Assessment form attached Yes ✓ No

Ground Water Sample: Yes No ✓ (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

PNM Gas Services

Well Name:	Florance AA #14A
Well Legals:	Unit C, Sec 8, T30N, R9W
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 Florance AA #14A 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.)

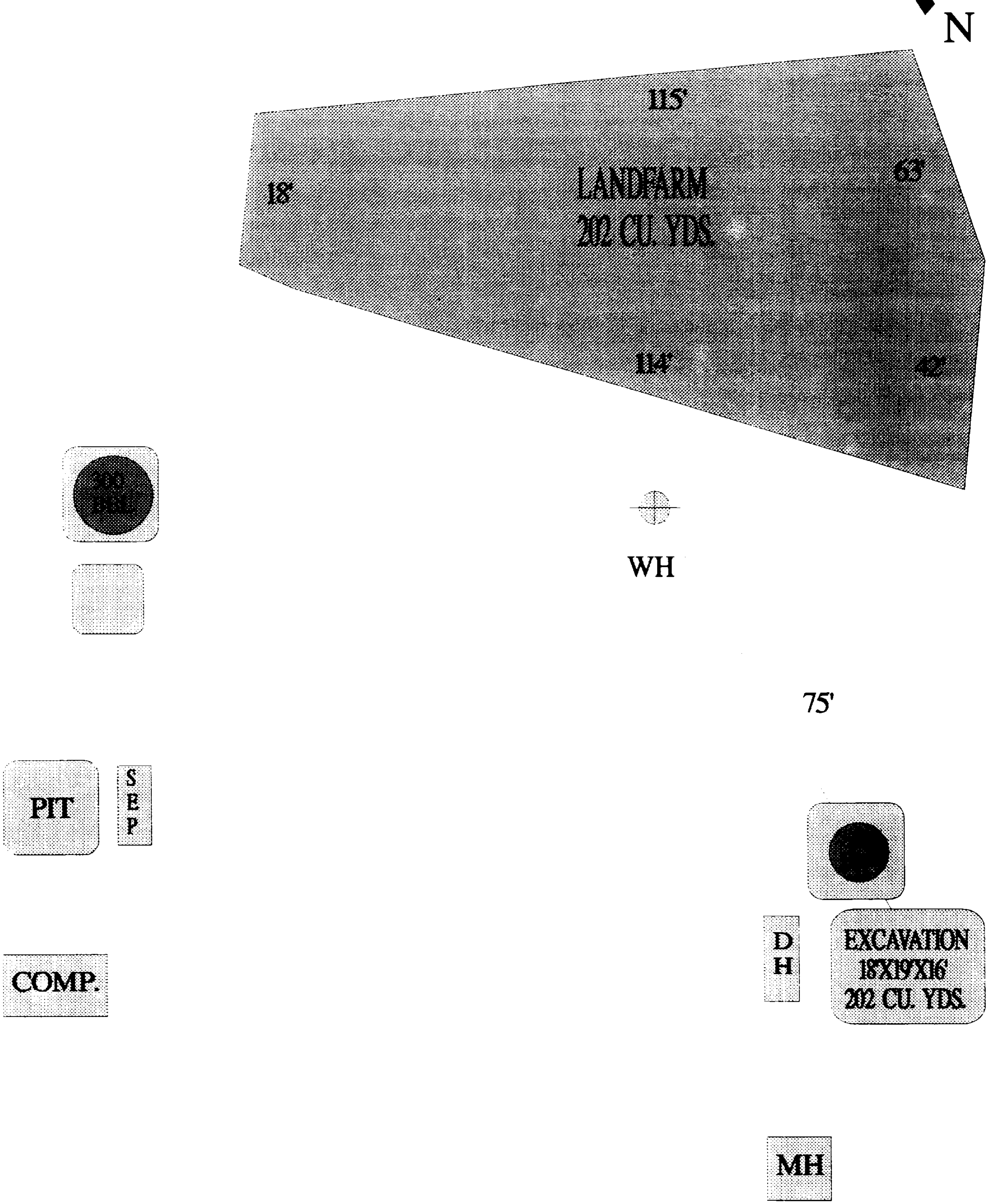
2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.

3. Distance from the site to surface water is greater than 1,000 ft.

4. PNM excavated 202 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered at 80.5 ft. below ground surface.

Based upon the information provided above, PNM believes the Florance AA #14A 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.

FLORANCE #14A EXCAVATION
06/24/96



OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

Diesel Range Organics

Attn:	Denver Bearden	Date:	25-Jun-96
Company:	PNM Gas Services	COC No.:	4717
Address:	603 W. Elm	Sample No.	11284
City, State:	Farmington, NM 87401	Job No.	2-1000

Project Name:	**PNM Gas Services - Florance #14A**				
Project Location:	**9606211040; Pit Excavation Composite Sample**				
Sampled by:	RH	Date:	21-Jun-96	Time:	10:40
Analyzed by:	DC	Date:	25-Jun-96		
Sample Matrix:	Soil				

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	165.6	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.: 0475-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,898	5.1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	103	94	(70-130)	6	20%

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

Approved by: [signature]
Date: 6/25/96

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	Denver Bearden	Date:	25-Jun-96
Company:	PNM Gas Services	COC No.:	4717
Address:	603 W. Elm	Sample No.	11284
City, State:	Farmington, NM 87401	Job No.	2-1000

Project Name:	**PNM Gas Services - Florance #14A**				
Project Location:	**9606211040; Pit Excavation Composite Sample**				
Sampled by:	RH	Date:	21-Jun-96	Time:	10:40
Analyzed by:	DC	Date:	24-Jun-96		
Sample Matrix:	Soil				

Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	54.7	ug/kg	0.2	ug/kg
Toluene	3528.7	ug/kg	0.2	ug/kg
Ethylbenzene	3272.5	ug/kg	0.2	ug/kg
m,p-Xylene	42328.5	ug/kg	0.2	ug/kg
o-Xylene	8950.3	ug/kg	0.2	ug/kg
TOTAL	58134.7	ug/kg		

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

Approved by: DC
Date: 6/25/96

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Florance 14A
Amoco
Sec. 08-30N-09W

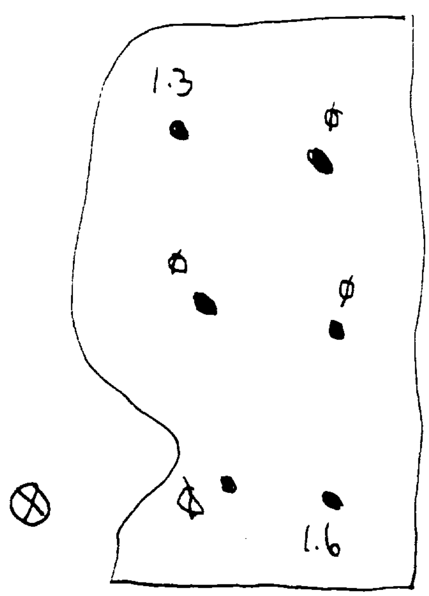
July 30, 1996

Land Farm: On Location
202 Yards

Composite Sample #: 9607311600

Soil Vapor Head-Space Reading = 17.4 ppm (PID)

Sample depths between 2" and 12"



OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

Diesel Range Organics

Attn:	Denver Bearden	Date:	2-Aug-96
Company:	PNM Gas Services	COC No.:	4945
Address:	603 W. Elm	Sample No.	11649
City, State:	Farmington, NM 87401	Job No.	2-1000

Project Name:	**PNM Gas Services - Florance 14A Landfarm**				
Project Location:	**9607301600; 6pt. Composite, 2"-12" depth**				
Sampled by:	GC	Date:	30-Jul-96	Time:	16:00
Analyzed by:	DC/HR	Date:	2-Aug-96		
Sample Matrix:	Soil				

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	14.2	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.: 0479-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,221	11.1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	93	99	(70-130)	5	20%

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

Approved by: DC
Date: 8/2/96

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Public Service Co. of NM.	Project #:	93108-02
Sample ID:	TH - 1 @ 80.5'	Date Reported:	01-07-97
Laboratory Number:	A890	Date Sampled:	01-02-97
Chain of Custody No:	5050	Date Received:	01-02-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-07-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**733**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**733**	**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: **Florance AA #14A.**

Analyst

Review

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:	TH - 1 @ 80.5'	Date Reported:	01-08-97
Laboratory Number:	A890	Date Sampled:	01-02-97
Chain of Custody:	5050	Date Received:	01-02-97
Sample Matrix:	Soil	Date Analyzed:	01-07-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**100**	**8.8**
Toluene	**8,950**	**8.4**
Ethylbenzene	**2,420**	**7.6**
p,m-Xylene	**19,700**	**10.8**
o-Xylene	**4,870**	**5.2**
Total BTEX	**36,040**	

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: **Florance AA #14A.**

Analyst

Review