State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

District Sense AM 88221
P O Drawer DD Artesig AM 88221 DISTRIBUTE OIL & GAS INSPECTOR 1000 RIG Brazos Rd. Aztec NM 87410

JUL 1 8 1997

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

/ PIT REVIEDIATION AND CLOSURE REPORT

1-4000	~0V4/	
Operator:	PNM Gas Services (Amoco) Telephone: 324-3764
Address:	603 W. Elm Street Farmington, NM 874	401
Facility or W	ell Name: Florance H #37A	
Location:	Unit: J Sec.	6 T. 30 N R. 8 W County San Juan
Pit Type:	Separator Dehydrat	or ✓ Other No
Land Type:	BLM ✓ State	Fee Other No
Pit Location:	Pit dimensions: length	20 width 20 depth 3
(Attach diagra	m) Reference: wellhead	other
	Footage from reference: 36'	
	Direction from reference: 40	Degrees East North V
		of West South
Depth to Gro (Vertical distance from seasonal high water elev	contaminants to	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
water Wellhead Pro	tection Area:	PECEIVED APR 2 4 1997 Co points)
(Less than 200 feet from domestic water source, feet from all other water	or, less than 1,000	No (O points) (O points) OIL GON, DIV.
(Horizontal distance to		Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)
ponds, rivers, streams, canals and ditches	creeks, migation	RANKING SCORE (TOTAL POINTS):

Date Remediation Started:	5/2/96		Date Completed:	5/6/96
Remediation Method:	Excavation	X	Approx. Cubic Yard	666
(Check all appropriate	Landfarmed	Х	Amount Landfarme	d (cubic yds) 666
sections	Other			
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	X	Offsite	
Backfill Material Location	·			
General Description of Ren	nedial Action:			
Excavated contaminated soil to aerated by plowing and disking	pit size of 37'x27'x	18' and landfarmed soil onsite	within a bermed area at	a depth of 6" to 12". Soil will be
*** Vertical extent at 62' provide			attached risk analysis for	m and lab analysis.
Ground Water Encountered	ed: No	Y Yes		Depth
Final Pit Closure Sampling:	Sample Locat	on 5 pt. composite-4 s	de walls and center of pit	bottom
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	18'		
sample focultons and departs,	Sample date	5/6/96	Sample time	11:40:00 AM
	Sample Resul	ts		
	Benze	ene (ppm)	0.5809	
	Total	BTEX (ppm) ***	63.6092	
	Field	headspace (ppm)		
	ТРН	195.70	Method 8	015 A
Vertical Extent (ft) 62	2'	Risk Assess	ment form attached	Yes <u>✓</u> No
Ground Water Sample:	Yes	No	` -	es, see attached Groundwater Site mary Report)
I HEREBY CERTIFY TH KNOWLEDGE AND MY		MATION ABOVE IS TR	UE AND COMPLETE	TO THE BEST OF MY
DATE April 28, 1 SIGNATURE	997 VVI BIAI	//		Bearden strator III



Well Name:
Well Legals:
Pit Type:
Horizontal Distance to Surface Water:

Florance H #37A Unit J, Sec 6, T30N, R8W Dehydrator Greater than 1,000 ft Greater than 100 ft

RISK ANALYSIS

Groundwater Depth:

PNM requests closure of the Florance H #37A using a limited risk analysis of the site conditions.

- 1. PNM estimated groundwater to be at a depth of 215 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 666 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered at 62 ft. below ground surface.

Based upon the information provided above, PNM believes the Florance H #37A 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 H #37 A
Sec. 6-30N-8W
Amogo
Soil Vapor Head Space: 54.8 ppm 7-1-96 Composite 96070) 1300



LAB: (505) 325-5667

Diesel Range Organics EPA 8015-Modified

Attn:

Denver Bearden

Date:

7-May-96

Company: PNM Gas Services

COC No .:

4623

Address:

Sample No.

10811

603 W. Elm

OFF: (505) 325-8786

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Florance H 37A

Project Location: Sampled by:

9605061140; Composite of Pit Excavation GC

Date:

6-May-96 Time:

11:40

Analyzed by:

DC

Date:

7-May-96

Sample Matrix:

Soil

Laboratory Analysis

Analyte	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	195.7	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:

0446-STD

Calibration Check

Analyte	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,120	6.0	15%

Matrix Spike

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
]	
Diesel Range (C10-C28)	82	77	(70-130)	4	20%

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

7-May-96

COC No.:

4623

Sample No.

10811

Job No.

2-1000

Project Name:

PNM Gas Services - Florance H 37A

Project Location: Sampled by:

9605061140; Composite of Pit Excavation GC

Date:

6-May-96 Time:

11:40

Analyzed by:

DC

Date:

7-May-96

Type of Sample:

Soil

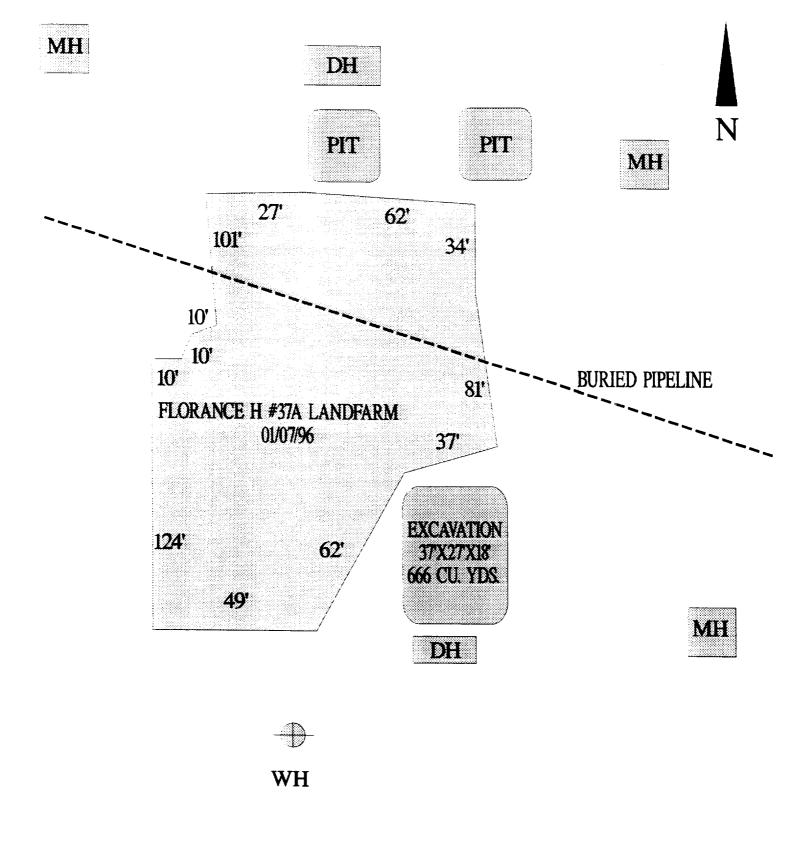
Aromatic Volatile Organics

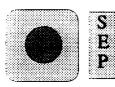
Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		580.9	ug/kg	0.2	ug/ kg
Toluene		5240.9	ug/kg	0.2	ug/ kg
Ethylbenzene		2408.2	ug/kg	0.2	ug/ kg
m,p-Xylene		44466.8	ug/kg	0.2	ug/kg
o-Xylene		10912.4	ug/kg	0.2	ug/kg
	TOTAL	63609.2	ug/kg		

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499









FLORANCE H #37A EXCAVATION 01/07/96

OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Date:

2-Jul-96

Company: PNM Gas Services

COC No.:

4698

Address:

Sample No.

11381

City, State: Farmington, NM 87401

603 W. Elm

Job No.

2-1000

Project Name:

PNM Gas Services - Florance H #37A Landfarm

Project Location:

9607011300; 6pt. Composite, 2"-12" deep

Sampled by:

GC

Date: Date:

1-Jul-96 Time:

13:00

Analyzed by: Sample Matrix: DC Soil 2-Jul-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	10.2	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	1,796	10.2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit	
Diesel Range (C10-C28)	117	112	(70-130)	3	20%	

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

Approved by:)a (/
Date: 7/2/56



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Public Service Co. of NM. TH - 1 @ 62' A875 5045 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	93108-02 01-07-97 12-30-96 12-30-96 01-07-97
Condition:	Cool and Intact	Date Analyzed: Analysis Requested:	01-07-97 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.3	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.3	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 H #37A.

Analyst

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Public Service Co. of NM.	Project #:	93108-02
Sample ID:	TH - 1 @ 62'	Date Reported:	01-08-97
Laboratory Number:	A875	Date Sampled:	12-30-96
Chain of Custody:	5045	Date Received:	12-30-96
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)
5	4 000	0.0
Benzene	1,330	8.8
Toluene	323	8.4
Ethylbenzene	1,750	7.6
p,m-Xylene	3,300	10.8
o-Xylene	310	5.2
Total BTEX	7,010	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	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 H #37A.

Analyst

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