District I
P.O Box 1980 Hope Way & Tought
rict II
Draw DEPUGIA ON BOO 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

OIL CONSERVATION DIVISION

District III 1000 Rio Brazos Rd. Azter 187420 8 1997

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Approve				
Operator: F	PNM Gas Services (Burlington) Telephone: 324-3764		
Address: 603 W	/. Elm Street Farmington, NM 874	01		· -
Facility or Well Nam	ne: Mangum #4			
Location: Un	it K Sec 2	28 T 29N R 11W Co	ounty San Juan	_
Pit Type: Sep.	arator Dehydrato	Other No		
Land Type: BLM	1 🗸 State	Fee Other No		
Pit Location:	Pit dimensions: length	15 ' width 15 '	depth 4	
(Attach diagram)	Reference: wellhead 👱	other		
	Footage from reference: 7	8'		
	Direction from reference: 63	-	North <u>~</u>	_
		of West	South	
Depth to Ground Wa (Vertical distance from contaminants seasonal high water elevation of grou	to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	20
Wellhead Protection (Less than 200 feet from a private domestic water source, or, less than 1 feet from all other water sources)	[[[]] JUL 3 1 1997	Yes No	(20 points) (0 points)	0
Distance to Surface V (Horizontal distance to perennial lake ponds, rivers, streams, creeks, irrigati	vater:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	20
canals and ditches		RANKING SCORE (TOTAL POI	NTS):	40

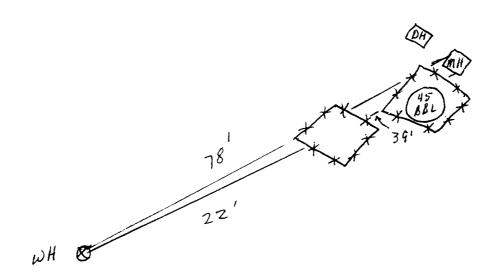
Mangum #4				
Date Remediation Started:	5/2	28/97	Date Completed: _	5/28/97
Remediation Method:	Excavation	Χ	Approx. Cubic Yard	217
(Check all appropriate	Landfarmed	<u>x</u>	Amount Landfarmed (cubic yds) 217
sections)	Other			
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite		Offsite Tierra Env	vironmental
Backfill Material Location:				
General Description of Rem	edial Action:			
Excavated contaminated soil	to a pit size of 19	9' x 14' x 22' and transport	ted soil to an offsite comm	nercial landfarm.
C. IW. B.				
Ground Water Encountered	l: No	Yes	D	epth
Final Pit Closure Sampling:	Sample Location	n Bottom of excavat	ion.	
(if multiple samples, attach sample result and diagram of	Sample depth	22'		
sample locations and depths.)	Sample date	5/28/97	Sample time	11:25:00 AM
	Sample Results			
	Benzen	e (ppm)0.1600	0	
	Total B	TEX (ppm)8.	5070	
	Field hea	adspace (ppm)		
	ТРН	54.00	Method 80	015A
Vertical Extent (ft)		Risk Assessm	ent form attached Yes	No <u>v</u>
Ground Water Sample:	Yes	No <u>v</u>	(If yes, see attached Summary Report)	Groundwater Site
I HEREBY CERTIFY THAT KNOWLEDGE AND MY B		ATION ABOVE IS TRUI	E AND COMPLETE TO	THE BEST OF MY
DATE July 28, 1997 SIGNATURE	Demu <i>k</i>	Seardin	A NEW TOTAL TO	enver Bearden dministrator III

Mangum #4

43° £ ot \$\mathbb{V}

22' from WH.







LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

4-Jun-97

Company: PNM Gas Services

COC No.:

5148

Address:

603 W. Elm

Sample No.:

14726

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Mangum #4

Project Location:

9705281125; Bottom Composite Sample

Sampled by:

RH

Date: Date: 28-May-97 Time:

2-Jun-97

11:25

Analyzed by: Sample Matrix: DC Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	54	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0519-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	100	101	1.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	98	83	(70-130)	15	20%

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

Approved by:



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

3-Jun-97

Company: PNM Gas Services

COC No.: Sample No.:

Job No.:

5148

Address:

603 W. Elm

14726

City, State: Farmington, NM 87401

2-1000

Project Name:

PNM Gas Services - Mangum #4

Project Location:

9705281125; Bottom Composite Sample RH

Date:

28-May-97 Time:

Sampled by: Analyzed by:

DC

Date:

29-May-97

11:25

Sample Matrix:

Soil

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		160	ug/ k g	50	ug/kg
Toluene		1029	ug/kg	50	ug/kg
Ethylbenzene		971	ug/kg	50	ug/kg
m,p-Xylene		5070	ug/kg	50	ug/kg
o-Xylene		1277	ug/kg	50	ug/kg
	TOTAL	8507	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: Date: 6/3 52



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

4-Jun-97

COC No.:

5148

Sample No.: Job No.:

14725 2-1000

Project Name:

PNM Gas Services - Mangum #4

Project Location:

9705281120; Wall Composite Sample

Date:

28-May-97 Time:

11:20

Sampled by: Analyzed by: Sample Matrix:

DC Soil

Date:

2-Jun-97

Laboratory Analysis

Parameter .	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	28	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0519-STD

Continuing Calibration Vertication

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	100	101	1.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	98	83	(70-130)	15	20%

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

Approved by:
Date: 6/4/5



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

2-Jun-97

Company: PNM Gas Services

COC No.:

5148

Address:

603 W. Elm

Sample No.:

14725

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Sevices - Mangum #4

Project Location:

9705281120; Wall Composite Sample

Sampled by:

Date: Date:

28-May-97 Time:

28-May-97

11:20

Analyzed by: Sample Matrix: DC Soil

Laboratory Analysis

Parameter		Results as Received		Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	1.0	ug/kg
Toluene		8.8	ug/kg	1.0	ug/kg
Ethylbenzene		16.3	ug/kg	1.0	ug/kg
m,p-Xylene		145.9	ug/kg	1.0	ug/kg
o-Xylene		33.1	ug/kg	1.0	ug/kg
	TOTAL	204.1	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: