District I P.O. Box 1980, Hobbs, **NM** 

District 11 P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

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

#### OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

# PIT REMEDIATION AND CLOSURE REPORT

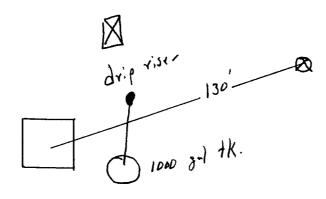
Operator:	PNM Gas	s Services (SRC	)	Telephone	e: 324-3	764		
Address:	603 W. Elm St	treet Farmington,	NM 87401					
Facility or We	Il Name: Cai	n #23	. AF = 4.0 AF					
Location:	Unit: A	S	Sec. <u>16</u>	T. 28 N	R. 10	W County	San Juan	
Pit Type:	Separator		Dehydrator	<u>.                                    </u>	Other	Drip	W	
Land Type:	BLM 💆	State -	_ Fee		Other			
Pit Location:	Pit di	mensions: len	ngth 20	widi	th 20	depth	3	
(Attach diagram	n) Refer	rence: wellho	ead 🗸	oth	er			
	Foota	ge from reference:	130'			-		
	Direct	tion from reference	: 30 De	egrees	East	North		
					<b>✓</b> West	of South	<u>*</u>	
Depth to Grou  (Vertical distance from co seasonal high water elevat	ntaminants to			Less than 50 feet 50 feet to 99 feet ater than 100 feet			(20 points) (10 points) ( 0 points)	0
water	ion of ground							
Wellhead Prot	ection Area:	Service of the servic		Yes			(20 points)	
(Less than 200 feet from a domestic water source, or feet from all other water s	less than 1,000			No			( 0 points)	
Distance to Sur	rface Water:	Ď		Less than 200 fe	et		(20 points)	
(Horizontal distance to pe ponds, rivers, streams, cre canals and ditches	rennial lakes,			0 feet to 1,000 fe ater than 1,000 fe			(10 points) ( 0 points)	0
			RA	NKING SCO	RE (TOT.	AL POINTS)	:	0

Date Remediation Started:	9/9/96		Date Completed: 9/11/	96
Remediation Method:	Excavation	X	Approx. Cubic Yard	238
(Check all appropriate	Landfarmed	Х	Amount Landfarmed (cubic yds)	238
sections)	Other			
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	<u>X</u>	Offsite	
Backfill Material Location:				
General Description of Ren	nedial Action:			
Excavated contaminated soil to	pit size of 18'x21'x	7' and landfarmed soil onsite	within a bermed area at a depth of 6" to	o 12". Soil was
aerated by plowing/disking until	soil met regulatory	levels.		
Ground Water Encountere	d: No	Yes	Depth	
Final Pit Closure Sampling:	Sample Location	on 5 pt composite-4 side	e walls and center of pit bottom	
(if multiple samples, attach sample result and diagram of	Sample depth	18'-pit bottom	-	
sample locations and depths.)	Sample date	9/9/96	Sample time 10:	30:00 AM
	Sample Results	ı		
	Benzer	ne (ppm)	0.0189	
	Total E	BTEX (ppm)	1.6248	
	Field he	eadspace (ppm)		
	ТРН	5.6	Method 8015A	
Vertical Extent (ft)		Risk Assessm	ent form attached Yes	No 🗸
Ground Water Sample:	Yes	No	(If yes, attach samp	le results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY I		IATION ABOVE IS TRUI	E AND COMPLETE TO THE BES	ST OF MY
DATE January 22,		PRINTE	ED NAME Denver Bearden	
SIGNATURE Sem	un Bear	and Ti	TLE Administrator III	

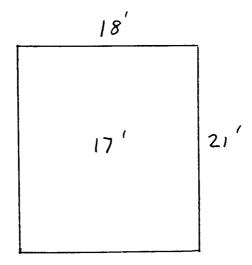
Cain # 23 Meridien Oil Sec. 16, 28N, 10N

9-9-96

Start of excavation:



executed pit: 18'x21' x 17' = 238 yds.



LAB: (505) 325-1556

## Diesel Range Organics

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

11-Sep-96

COC No.:

5021

Sample No.

12064

Job No.

2-1000

Project Name:

PNM Gas Sevices - Cain #23

**Project Location:** 

9609091030; 5pt. Composite, 4 Walls @ 16' and Bottom @18' GC

Date:

9-Sep-96 Time:

10:30

Sampled by: Analyzed by:

DC

Date:

11-Sep-96

Sample Matrix:

Soil

## Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	5.6	mg/kg	5.0	mg/kg

## Quality Assurance Report

DRO QC No.:

0489-QC

#### Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	100	99	0.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered Limit		%RSD	Limit	
Diesel Range (C10-C28)	98	114	(70-130)	11	20%	

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

P.O. BOX 2606 • FARMINGTON, NM 87499

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OFF: (505) 325-5667



LAB: (505) 325-1556

## AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

12-Sep-96

Company: PNM Gas Services

COC No.:

5021

Address:

603 W. Elm

Sample No.:

12064

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Cain #23

**Project Location:** 

9609091030; 5pt. Composite, 4 Walls @ 16' and Bottom @ 18'

9-Sep-96 Time:

10:30

Sampled by: Analyzed by: GC

Date: Date:

11-Sep-96

Sample Matrix:

DC Soil

## Laboratory Analysis

			Unit of	Detection	Unit of	
Parameter		Result	Measure	Limit	Measure	
Benzene		18.9	ug/kg	0.2	ug/kg	
Toluene		59.8	ug/kg	0.2	ug/kg	
Ethylbenzene		173.2	ug/kg	0.2	ug/kg	
m,p-Xylene		1325.1	ug/kg	0.2	ug/kg	
o-Xylene		47.8	ug/kg	0.2	ug/ <b>k</b> g	
	TOTAL	1624.8	ug/ <b>kg</b>			

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

Approved by: ) (

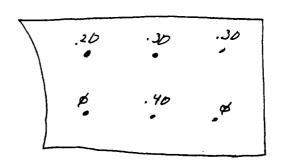
Date: 9/12/96

Cain # 23 Meridien Dil Sec. 16, 28N, 10W

10-23-96

Landfarm: On location Composite sample # 96/023 0900 Soil reporthed space PIO reeding: 3.8 pm

2"-12" deth



OFF: (505) 325-5667



LAB: (505) 325-1556

## Diesel Range Organics

Attn:

Denver Bearden

Date:

25-Oct-96

Company: PNM Gas Services

COC No.:

5092

Address:

603 W. Elm

Sample No.

12682

City, State: Farmington, NM 87401

Job No.

2-1000

**Project Name:** 

PNM Gas Services - Cain #23 Landfarm

**Project Location:** 

9610230900; 6pt. Composite, 2"-12" depth

Date:

23-Oct-96 Time:

Sampled by: Analyzed by:

GC DC/HR

Date:

25-Oct-96

9:00

Sample Matrix:

Soil

## Laboratory Analysis

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

## Quality Assurance Report

DRO QC No.:

0489-QC

## alibration Check

Campration Check									
Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit			
Diesel Range (C10 - C28)	<5.0	ppm	100	92	7.6	15%			

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered Limit		%RSD	Limit	
Diesel Range (C10-C28)	114	104	(70-130)	6	20%	

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

Approved by:

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