District I P O Box 1980 Hobbs, NM 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 II P O Drawer DD, Artesia, NM 88221 70 0 70 70

District III 1000 Rio Brazos Rd Aztec, NM 87410

OIL CONSERVATION DIVISION

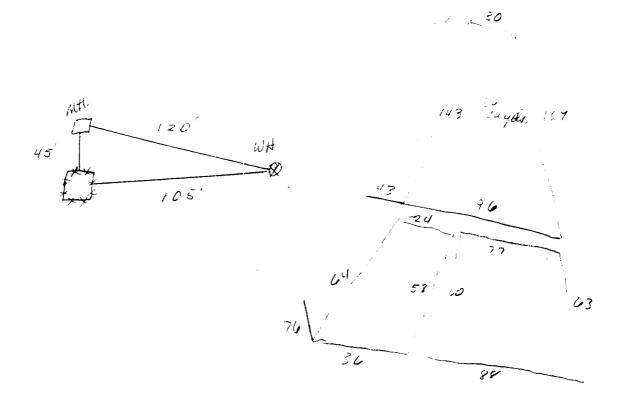
2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator: P	NM Gas Services (SRC) T	elephone: 324	-3764	
Address: 603 W	. Elm Street Farmington, NM 8740	1			
Facility or Well Nam	e: McClanahan #21				
Location: Unit:	A Sec. 1	3 T. <u>28 N</u> R.	O County	San Juan	_
Pit Type: Sepa	arator Dehydrator	Other	no PNM equ	uipment left at site	_
Land Type: BLM	State	Fee Other			
Pit Location:	Pit dimensions: length	width	18 ' dept	h _4 ·	
(Attach diagram)	Reference: wellhead <u>v</u>	other			
	Footage from reference: 105'				_
	Direction from reference: 85	Degrees	East Nor	th 👱	
		<u> </u>	of West Sou	th	
Depth to Ground Wa	iter:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points)	10
(Vertical distance from contaminants seasonal high water elevation of grouwater		Section 11 and 100 tool		(v points)	
Wellhead Protection	Area: JAN 2 4 1997	Yes		(20 points)	
(Less than 200 feet from a private domestic water source, or, less than feet from all other water sources)	(M. 4814). 1 E.B. E	No No		(0 points)	0
Distance to Surface (es,	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points)	0
ponds, rivers, streams, creeks, irrigat canals and ditches	ion	RANKING SCORE	(TOTAL POINT	S):	10

Date Remediation Started:	8/21/96	Date Completed: 8/21/96
Remediation Method:	Excavation x	Approx. Cubic Yard 34
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds) 34
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/disking until	pit size of 10'x13'x7' and landfarmed soil onsite soil met regulatory levels.	e within a bermed area at a depth of 6" to 12". Soil was
	level; Further excavation impossible due to bec	lrock.
Ground Water Encountere	ed: No 🔽 Yes	Depth
Final Pit Closure Sampling:	Sample Location 5 pt composite-4 s	ide walls and center of pit bottom
(if multiple samples, attach sample result and diagram of	Sample depth 7'	
sample locations and depths.)	Sample date 8/21/96	Sample time 9:45:00 AM
	Sample Results	
	Benzene (ppm)	0.9769
	Total BTEX (ppm)	78.5599
	Field headspace (ppm)	
	TPH 96.5	Method 8015A
Vertical Extent (ft)	Risk Assess	ment form attached Yes No
Ground Water Sample:	Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY I	T THE INFORMATION ABOVE IS TRU BELIEF	JE AND COMPLETE TO THE BEST OF MY
DATE January 22, SIGNATURE	1997 PRINT AND T	TED NAME Denver Bearden TITLE Administrator III

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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: 23-Aug-96

COC No.:

Sample No.

4947 11875

Job No.

2-1000

Project Name:

PNM Gas Services - McClanahan #21

Project Location:

9608210945; Pit Excavation Composite Sample

Date:

21-Aug-96 Time:

9:45

Sampled by: Analyzed by:

DC/HR

Date:

23-Aug-96

Sample Matrix:

Soil

RH

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	96.5	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	112	12.0	15%

Matrix Spike

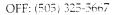
Parameter	1- Percent Recovered			%RSD	Limit
Diesel Range (C10-C28)	112	114	(70-130)	1	20%

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

Approved by:
Date: 8/23/96

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -





LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

23-Aug-96

Company: PNM Gas Services

COC No.:

4947

Address:

Sample No.

11875

603 W. Elm

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - McClanahan #21

Project Location: Sampled by:

9608210945; Pit Excavation Composite Sample RH

Date:

21-Aug-96 Time:

9:45

Analyzed by: Sample Matrix: HR Soil

23-Aug-96 Date:

Laboratory Analysis

Parameter		Result	Unit of Measure	Detection Limit	Unit of Measure
7 414					
Benzene		976.9	u g/kg	0.2	ug/ k g
Toluene		15120.4	ug/ kg	0.2	ug/ k g
Ethylbenzene		7026.6	ug/ kg	0.2	ug/kg
m,p-Xylene		44951.7	ug/kg	0.2	ug/ kg
o-Xylene		10484.3	u g/kg	0.2	ug/kg
	TOTAL	78559.9	u g/kg		

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

Approved by:

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

McClanahan #21 Mexidian O:1 Sec. 13, 18N, 10W

9-12-96

LAnd Ferm: On location composite sample # 9609121310 4pt. Soil vapor PID reading = 17.1 ppm

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2.3 4.1 5.3

2"-12" depth

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OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Date:

16-Sep-96

Company: PNM Gas Services

COC No.:

5037

Address:

603 W. Elm

Sample No.

12140

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - McClanahan #21 Landfarm

Project Location:

9609121330; 6pt. Composite, 2"-12" depth

Date:

12-Sep-96 Time:

13:30

Sampled by: Analyzed by:

GC HR

Date:

14-Sep-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	363.1	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	104	3.8	15%

Matrix Spike

Parameter	1- Percent 2 - Percent Recovered Recovered		Limit	%RSD	Limit
Diesel Range (C10-C28)	82	96	(70-130)	11	20%

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

Approved by: Oc. Date: 9/14/54

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

McClanahan #21 Unit A, Sec 13, T28N, R10W No PNM Equipment 200ft to 1000ft Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the McClanahan #21using a limited risk analysis of the site conditions.

- 1. PNM determined groundwater to be at a depth of 202 ft. to San Juan River and 55 ft. Munoz Canyon. (Reference: topographic map).
- 2. This site is not located within 200 ft. of a domestic water well and is not within 1000 ft. of any other water source.
- 3. Distance from the site to surface water is greater than 1,000 ft.
- 4. PNM excavated 245 cu. yds. from the former pit. Bedrock was encountered in the bottom of the pit at 9 ft.

Based upon the information provided above, PNM believes the Cain #9 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. With groundwater at 202 ft. in depth to San Juan River and 55 ft. to Munoz Canyon, vertical migration through bedrock to groundwater is highly unlikely.