District II
P O. Box 1980, Hobbs. NV
DEPUTY OIL & GAS INSPECTOR
District II
P.O. Drawer DD, Artesia, NM 88221

District III FEB 2 8 1997 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

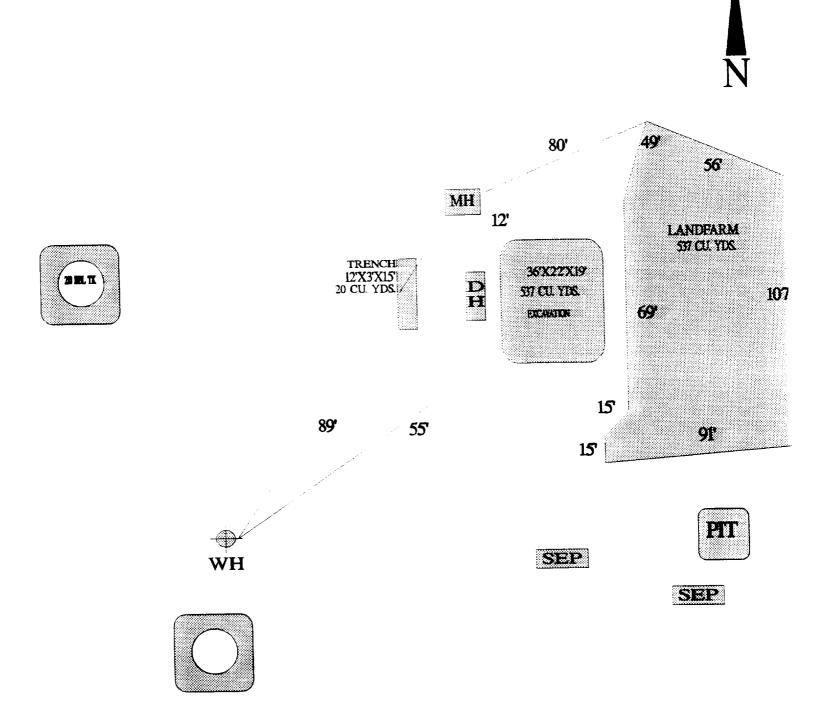
2040 South Pacheco Street Santa Fe, New Mexico 37505



PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Amoco) Telephone:	324-3764		
Address:	603 W. Elm Street Farmington, NM 8	7401			
Facility or W	ell Name: Riddle #2				-
Location:	Unit: N Sec.	<u>17</u> r. <u>30 N</u> R.	9 W County	San Juan	
Pit Type:	Separator Dehydr	ator Other			
Land Type:	BLM Y State	Fee Other			
Pit Location:	Pit dimensions: length	18 ' width	depth	3	
(Attach diagra	m) Reference: wellhead	other _			
	Footage from reference: 40),			_
	Direction from reference: 45	Degrees 🔽	East North	<u>v</u>	
			of West South		
Depth to Gro	n contaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points)	0
Wellhead Pr (Less than 200 feet from domestic water source feet from all other wa	e, or, less than 1,000	Yes No		(20 points) (0 points)	0
Distance to	Surface Water:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points)	0
(Horizontal distance ponds, rivers, streams canais and ditches	to percental taxes, s, creeks, irrigation	RANKING SCORE	(TOTAL POINTS):	0

Date Remediation Started:	5/1/96	Date Completed: 5/2/96
Remediation Method:	Excavation x	Approx. Cubic Yard 537
(Check all appropriate	Landfarmed <u>x</u>	Amount Landfarmed (cubic yds) 517
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 22'x36'x19' and landfarmed	soil onsite within a bermed area at a depth of 6" to 12". Soil was
	Son mot regulatory to role.	
Ground Water Encountere	d: No <u>▼</u>	Yes Depth
Final Pit Closure Sampling:	Sample Location 5 pt. comp	osite-4 side walls and center of pit bottom
(if multiple samples, attach sample result and diagram of sample locations and deptits.)	Sample depth 19'	
sample locations and depths. <i>)</i>	Sample date 5/1/	96 Sample time 3:15:00 PM
	Sample Results	
	Benzene (ppm)	0.0025
	Total BTEX (ppm)	0.0160
	Field headspace (ppm)	
	TPH < 5.00	Method 8015A
Vertical Extent (ft)	Risk	Assessment form attached Yes No
Ground Water Sample:	Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THA' KNOWLEDGE AND MY B	T THE INFORMATION ABOVE SELIEF	IS TRUE AND COMPLETE TO THE BEST OF MY
DATE October 25, 1 SIGNATURE	\sim	PRINTED NAME Maureen Gannon AND TITLE Environmental Engineer





OFF: (505) 325-8786

LAB: (505) 325-5667

Diesel Range Organics EPA 8015-Modified

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

6-May-96

COC No.:

4622

Sample No. Job No.

10787 2-1000

Project Name:

PNM Gas Services - Riddle #2

Project Location:

9605011515; Excavation Composite Sample

Date:

1-May-96 Time:

15:15

Sampled by: Analyzed by:

RH DC

Date:

6-May-96

Sample Matrix:

Soil

Laboratory Analysis

Analyte	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.:

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	2,106	5.3	15%

Matrix Spike

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

Method - SW-8-16 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: Date: 5/6/96

P. O. BOX 2606 • FARMINGTON, NM 87499



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

2-May-96

Company: PNM Gas Services

COC No.:

4622

Address:

Sample No.:

10787

603 W. Elm

Job No.:

2-1000

City, State: Farmington, NM 87401

Project Name:

PNM Gas Services - Riddle #2

Project Location:

9605011515; Excavation Composite Sample Date:

1-May-96 Time:

15:15

Sampled by: Analyzed by: RH HR

Date:

2-May-96

Sample Matrix:

Soil

Aromatic Volatile Organics

Component		Result	Units of Measure	Detection Limit	Units of Measure	
Benzene		2.5	ug/ kg	0.2	ug/ kg	
Toluene		7.4	ug/kg	0.2	ug/ kg	
Ethylbenzene		1.2	ug/kg	0.2	ug/kg	
m,p-Xylene		3.2	ug/kg	0.2	ug/kg	
o-Xylene		1.7	ug/kg	0.2	ug/kg	
	TOTAL	16.0	ug/kg			

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

Approved by: $\int_{a}^{a} \left(\int_{a}^{b} \int_{a}^{b$

RIDDLE #2

July 23, 1996

Amoco

Sec. 17-30N-09W

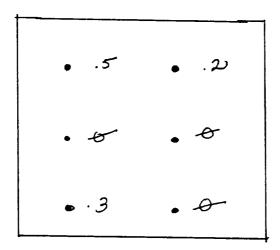
Land Farm: On Location

557 Yards

Composite Sample #: 96 072 3 // 40

Soil Vapor Head-Space Reading = 7.9 ppm (PID)

Sample depths between 2" and 12"





OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-Jul-96

Company: PNM Gas Services

COC No.:

4912

Address:

Sample No.

11576

City, State: Farmington, NM 87401

603 W. Elm

Job No.

2-1000

Project Name:

PNM Gas Services - Riddle #2 Landfarm

Project Location:

9607231140; 6pt. Composite, 2" - 12" depth

Date:

23-Jul-96 Time:

11:40

Sampled by: Analyzed by: GC HR

Date:

24-Jul-96

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.:

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	1,798	10.1	15%

Matrix Snike

meura opiko					
	1- Percent	2 - Percent			
Parameter	Recovered	Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	98	100	(70-130)	2	20%

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

Approved by: Jack
Date: 7/24/96