State of New Mexico Energy, Minerals and Natural Resources Department CLY9051 TIMA IS SEPROPRIATE DISTRICT OFFICE AND IN OFY TO SANTA ELOPPICE

DEPUTY OIL & GAS INSPECTOR Strot DEPUTY OIL & 1 1.00 Pto Brazos Rd Aztec NM 87410

Pro Bourt Hold Hoods NM

JUL : 8 1997

#### OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe. New Mexico, 87505

# PAT REMEDIATION AND CLOSURE REPORT

Operator:	PN	NM Gas Services (Am	oco	) T	elephone	: 324-37	64		
Address:	603 W.	Elm Street Farmingto	n. NM 874	401					
Facility or Wo	ell Name	Federal Gas Com #2							
Location:	Unit:	M	Sec.	<u>27</u> T.	28 N	R10 W	County	San Juan	
Pit Type:	Sepai	rator	Dehydrate	or	Oth	er	Drip Pit		
Land Type:	BLM	✓ State		Fee	Oth	ier			<del></del>
Pit Location:		Pit dimensions:	length	15	width	15	depth	3 '	-
(Attach diagrar	m)	Reference: we	ellhead 🗸	<u>,                                     </u>	other				
		Footage from reference	e: 85'						
		Direction from referen	nce: 20	Degrees	<u> </u>	East	North	<u> </u>	:
						West	of South		
Depth to Grou Vertical distance from c deasonal high water elev water	contaminants to			Less that 50 feet to Greater than	99 feet	DEC N <sub>apr</sub>	EIVE 2 4 1997	(20 points) (10 points) ( 0 points)	
Wellhead Pro	tection A	Area:			Yes 1	കഥ ര	AM SV	(20 points)	
dess than 200 feet from demestic water source ic feet from all other water	or, less than 1,0	000			Na <sup>1</sup>	9) 11(9) 11(9)	(91146 671 <b>(1811.</b> B	IV (v () points)	<u> </u>
Distance to Su	perenniai lakes.			Less that 200 feet to Greater than				(20 points) (10 points) ( 0 points)	0
pinds rivers, streams o Canaly and ditones	reeks, irrugation	n		RANKIN	G SCORI	E (TOTA	AL POINTS)	:	0

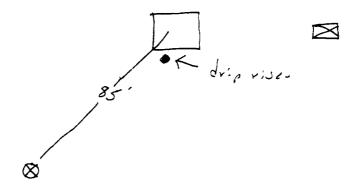
ate Remediation Started:	10/9/96	,	Date Com	pleted: 10	)/16/96
emediation Method:	Excavation x		Approx. Cu	ıbic Yard	609
heck all propriate	Landfarmed · X		Amount La	andfarmed (cubic	yds) <u>579</u>
ctions)	Other				
Remediation Location:	Onsite		Offsite	Kutz Deep Gas C 27-28N-10W-Unit	om D-1E, Amoco. Sec
ocation of offsite facility)					
Backfill Material Location:			··		
General Description of Ren	nedial Action:				
Excavated contaminated soil to aerated by plowing/disking until	pit size of 28'x28'x21' ar	d landfarmed soil offsite	e within a berme	ed area at a depth of	f 6" to 12". Soil was
aerated by plowing/disking unit	i soil met regulatory leve	15.			
Ground Water Encountere	ed: No	<b>✓</b> Yes	· · · · · · · · · · · · · · · · · · ·	Depth	
Final Pit Closure Sampling:	Sample Location	5 pt composite-4 si	de walls and ce	nter of pit bottom	
rif multiple samples, attach sample result and diagram of	Sample depth	26' @ bottom			
sample locations and depths.)	Sample date	10/14/96	Samp	e time	1:30:00 P <b>M</b>
	Sample Results				
	Benzene (	ppm)	0.0093		
	Total BTE	X (ppm)	7.0422		
	Field heads	pace (ppm)		_	
	ТРН _	107.10	Method	8015A	
Vertical Extent (ft)		Risk Assess	ment form atta	ached Yes	No <u>v</u>
	Yes	No 🗸		(If yes, see att Summary Rep	ached Groundwater S ort)
Ground Water Sample:					
HEREBY CERTIFY THA		ION ABOVE IS TRI	UE AND CO	MPLETE TO THE	E BEST OF MY
		ION ABOVE IS TRI	UE AND COM	MPLETE TO THE	E BEST OF MY

Federal Gas Com # 2
A MUCO
Sec. 27, T28N, RIOW, Unit m"

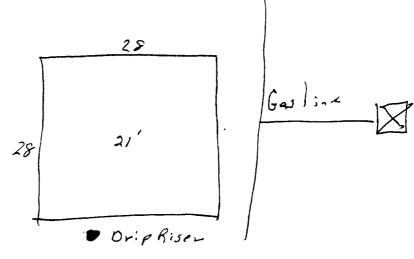
10-9-96

Start of excavation:

20° E 0 5 N



End of Excavation: 28x28x21'= 609 yds.



vertical entant to 26'

East & South boundaries, (Gas Zines)

OFF: (303) 325-5667



LAB: (505) 325-1556

### Diesel Range Organics

Attn: Denver Bearden

Company: PNM Gas Services

603 W. Elm Address:

City, State: Farmington, NM 87401

Date:

17-Oct-96

COC No.:

5071

Sample No.

12587

Job No.

2-1000

Project Name:

PNM Gas Services - Federal Gas Com #2

Project Location:

GC

Date:

9610141330; 5pt. Composite, Walls @ 20' and Bottom @ 26' 14-Oct-96 Time:

13:30

Sampled by: Analyzed by:

DC/HR

Date:

17-Oct-96

Sample Matrix:

Soil

### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	107.1	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	99	0.7	15%

Matrix Spike

Recompeter.	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit	
Diesel Range (C10-C28)	105	114	(70-130)	6	20%	

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

Approved by: (

CHT: (505) 325-5667



LAB: (505) 325-1556

# AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

17-Oct-96

COC No.:

5071

Sample No.

12587

Job No.

2-1000

Project Name:

PNM Gas Services - Federal Gas Com #2

Project Location:

9610141330; 5pt. Composite, Walls @ 20' & Bottom @ 26'

Date:

14-Oct-96 Time:

13:30

Sampled by: Analyzed by: GC DC

Date:

17-Oct-96

Sample Matrix:

Soil

### Laboratory Analysis

Parameter		Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene		9.3	ug/kg	0.2	ug/kg
Toluene		290.5	ug/kg	0.2	ug/kg
Ethylbenzene		424.1	ug/kg	0.2	ug/kg
m,p-Xylene		4955.0	ug/kg	0.2	ug/kg
o-Xylene		1363.4	ug/kg	0.2	ug/kg
	TOTAL	7042.2	ug/kg		

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

Date:

LAndfarm: Kutz Deep Ges Com "D" IE Amoro Sec 27, 28N, 10 W

Composite sample # 96/2261115

Soil vapor head space PIO reading = 19.6 ppm

	6	1.3	
_			
	1.9	7.1	
			2"-12" deth
		3.1	

OFF: (505) 325-5667



LAB: (505) 325-1556

# Diesel Range Organics

Attn: Denver Bearden

Date:

2-Jan-97

Company: PNM Gas Services

COC No.:

5152

Address: 602 W Fim

Sample No.

13265

Address: 603 W. Elm City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Federal Gas Com #2 Landfarm

Project Location:

9612261115; 6pt. Composite, 2"-12" deep

Sampled by:

GC

Date:

26-Dec-96 Time:

11:15

Analyzed by: Sample Matrix:

DC Soil

Date: 2-Jan-97

# Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	29.8	mg/kg	5.0	mg/kg

#### Quality Assurance Report

DRO QC No.:

0512-QC

### Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	< 5.0	ppm	100	96	3.7	15%

Matrix Spike

1 - Percent Parameter Recovered		2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	88	92	(70-130)	3	20%

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

Approved by:
Date: 1/2/92