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

<u>PIT RÉMEDIATION AND CLOSURE REPORT</u>

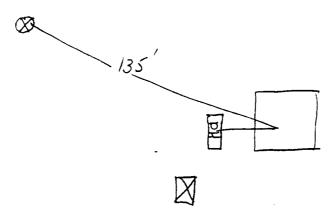
PNM Gas Services (Amoco Telephone: 324-3764 Operator: Address: 603 W. Elm Street Farmington, NM 87401 Facility or Well Name: Kutz Federal #11 Location: 28 N 10 W 20 County San Juan Unit: Pit Type: Other Separator \checkmark Dehydrator Land Type: **BLM** State Fee Other Pit Location: Pit dimensions: length 15 ' width depth 15 3 (Attach diagram) Reference: wellhead other Footage from reference: 135' Direction from reference: Degrees East 30 North of West South Less than 50 feet (20 points) Depth to Ground Water: 50 feet to 99 feet (10 points) Greater than 100 feet 0 (0 points) (Vertical distance from contaminants to seasonal high water elevation of ground Wellhead Protection Area: Yes (20 points) 0 No (0 points) (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) Distance to Surface Water: Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) 0 (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started:	9/30/96	Date Completed: 10/1/96
Remediation Method:	Excavation	X Approx. Cubic Yard 337
Check all ppropriate	Landfarmed	X Amount Landfarmed (cubic yds) 300
ections)	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:	
		18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was
aerated by plowing/disking until	soil met regulator	/ levels.
Ground Water Encountere	d: No	Yes Depth
Final Pit Closure	Sample Locati	ion Anthonority Anily (D. 1)
Sampling:	Sample Local	4 pt composite-4 side walls (Bottom Composite attached)
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth	
Sampling: (if multiple samples, attach	-	
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth	21' 10/1/96 Sample time 9:00:00 AM
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth Sample date Sample Resul	21' 10/1/96 Sample time 9:00:00 AM
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth Sample date Sample Resul Benze	21' 10/1/96 Sample time 9:00:00 AM ts ene (ppm) 0.0170
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth Sample date Sample Resul Benze Total	1 21' 10/1/96 Sample time 9:00:00 AM ts ene (ppm) 0.0170 BTEX (ppm) 3.0359
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth Sample date Sample Resul Benze Total Field I	1 21' 10/1/96 Sample time 9:00:00 AM ts ene (ppm) 0.0170 BTEX (ppm) 3.0359 neadspace (ppm)
Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth Sample date Sample Resul Benze Total	1 21' 10/1/96 Sample time 9:00:00 AM ts ene (ppm) 0.0170 BTEX (ppm) 3.0359 neadspace (ppm) 140.1 Method 8015A
Sampling: (if multiple samples, attach sample result and diagram of	Sample depth Sample date Sample Resul Benze Total Field I	1 21' 10/1/96 Sample time 9:00:00 AM ts ene (ppm) 0.0170 BTEX (ppm) 3.0359 neadspace (ppm)

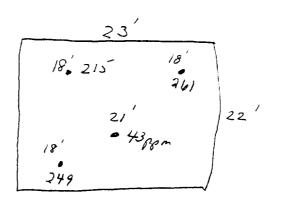
Kntz Federal # 11 Amoco Sec. 20, 28N, 10N, Unit N

30° E of 5

Pit stant of Exerction:



Excavated pit: 23722×18'



__ ._



LAB: (505) 325-1556

Diesel Range Organics

Attn: Denver Bearden Company: PNM Gas Services Date:

4-Oct-96

COC No.: Sample No. 5051

Address: City, State: Farmington, NM 87401

603 W. Elm

Job No.

12411 2-1000

PNM Gas Services - Kutz Federal #11

Project Name: Project Location:

9610010900; 3pt. Composite, Bottom @ 21'

Date:

1-Oct-96 Time:

9:00

Sampled by: Analyzed by: GC DC/BV

Date:

4-Oct-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	140.1	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	110	10.3	15%

Matrix Spike

Parameter	1- Percent 2 - Percent Recovered Recovered		Limit	%RSD	Limit	
Diesel Range (C10-C28)	112	103	(70-130)	6	20%	

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

Approved by:



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

2-Oct-96

Company: PNM Gas Services

COC No.:

5051

Address:

Sample No.:

12411

City, State: Farmington, NM 87401

603 W. Elm

Job No.:

2-1000

Project Name:

PNM Gas Services - Kutz Federal #11

Project Location:

9610010900; 3pt. Composite, Bottom @ 21'

Sampled by:

GC DC Date: Date:

1-Oct-96 Time: 2-Oct-96

9:00

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

Parameter		Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene		17.0	ug/ k g	0.2	ug/ kg
Toluene		34.2	ug/kg	0.2	ug/kg
Ethylbenzene		223.1	ug/kg	0.2	ug/kg
m,p-Xylene		2177.9	ug/kg	0.2	ug/kg
o-Xylene		583.7	ug/ kg	0.2	ug/kg
	TOTAL	3035.9	ug/kg		

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

Approved by: Only 196

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Date:

4-Oct-96

Company: PNM Gas Services

COC No.:

5051

Address:

603 W. Elm

Sample No.

12412

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Kutz Federal #11

Project Location:

9610010910; 4pt. Composite, Walls @ 16'

Date: 1-Oct-96 Time:

9:10

Sampled by: Analyzed by: GC DC/BV

Date:

4-Oct-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	128.6	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	110	10.3	15%

Matrix Spike

	1- Percent	2 - Percent			
Parameter	Recovered	Recovered	Limit	%RSD	Limit
					İ
Diesel Range (C10-C28)	112	103	(70-130)	6	20%

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

Approved by: Date:

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

2-Oct-96

Company: PNM Gas Services

COC No.:

5051

Address:

Job No.:

12412

603 W. Elm

Sample No.:

2-1000

City, State: Farmington, NM 87401

PNM Gas Services - Kutz Federal #11

Project Name: **Project Location:**

9610010910; 4pt. Composite, Walls @ 16'

1-Oct-96 Time:

9:10

Sampled by: Analyzed by:

DC

Date: Date:

2-Oct-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter		Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene		< 0.2	ug/ kg	0.2	ug/kg
Toluene		16.4	ug/ k g	0.2	ug/kg
Ethylbenzene		30.9	ug/kg	0.2	ug/ kg
m,p-Xylene		216.2	ug/kg	0.2	ug/kg
o-Xylene		92.8	ug/kg	0.2	ug/kg
	TOTAL	356.3	ug/kg		

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

Approved by:

P.O. BOX 2606 • FARMINGTON, NM 87499

MMUL	>			
Sec. 2	D, 28N, 10W			
	Landfarm: On:	peation		
- · ·	Composite sample			
	Soil vapor head sp	ance 110 Yeading	(
				- <u></u>
	⊗		2"-12"	deth
		· · · · · · · · · · · · · · · · · · ·		
		i i		



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

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

Project Name:

Sampled by:

Analyzed by:

Sample Matrix:

Project Location:

PNM Gas Services - Kutz Federal #1| Landfarm

9611121035; 6pt. Composite, 2"-12" depth

GC

DC/HR Soil

Date:

Date:

13-Nov-96

5125 COC No.: Sample No.

Date:

Job No.

12-Nov-96 Time:

12848

14-Nov-96

2-1000

10:35

Laboratory Analysis

Perameter	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.:

0512-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	< 5.0	ppm	100	100	0.5	15%

Matrix Snike

Perameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	100	104	(70-130)	3	20%

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

Approved by: Date:

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -