District I
P.O. Box 1980, Hobbs, NM 88241-1980

District II
P.O. Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

Dennis L. Foust
DEPUTY OIL & GAS INSPECTOR
JUL 18 1997

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Four Star) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Mexico Federal K #1

Location: Unit M Sec. 9 T. 28 N R. 10 W County San Juan

Pit Type: Separator ✔ Dehycrator ___ Other ___

Land Type: BLM ✔ State ___ Fee ___ Other No

Pit Location: (Attach diagram)

Pit dimensions: length 18 ' width 18 ' depth 4 '

Reference: wellhead ✔ other ___

Footage from reference: 148'

Direction from reference: 20 Degrees ___ East North ✔ of ✔ West South ___

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes No	(20 points) (0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	0
RANKING SCORE (TOTAL POINTS):			0

RECEIVED
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OIL CON. DIV.
DIST. 3

Mexico Federal K #1

Date Remediation Started: 8/29/96 **Date Completed:** 9/3/96

Remediation Method: (Check all appropriate sections)
Excavation X — Approx. Cubic Yard 287
Landfarmed X — Amount Landfarmed (cubic yds) 287
Other

Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)
Onsite X Offsite

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 19'x34'x12' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

*** Total BTEX above regulatory level; further excavation impossible due to bedrock.

Ground Water Encountered: No ✓ Yes Depth

Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)
Sample Location 5 pt composite-4 side walls and center of pit bottom
Sample depth 12'
Sample date 8/29/96 Sample time 4:00:00 PM

Sample Results
Benzene (ppm) 0.0776
Total BTEX (ppm) *** 58.5385
Field headspace (ppm)
TPH 198.90 Method 8015A

Vertical Extent (ft) 17' Risk Assessment form attached Yes ✓ No

Ground Water Sample: Yes No ✓ (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE April 28, 1997
SIGNATURE Denver Bearden
PRINTED NAME AND TITLE Denver Bearden Administrator III

PNM Gas Services

Well Name:	Mexico Federal K #1
Well Legals:	Unit M, Sec 9, T28N, R10W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Mexico Federal K #1 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 180 ft. based upon elevation of site to the San Juan River. (Reference: topographic map.)

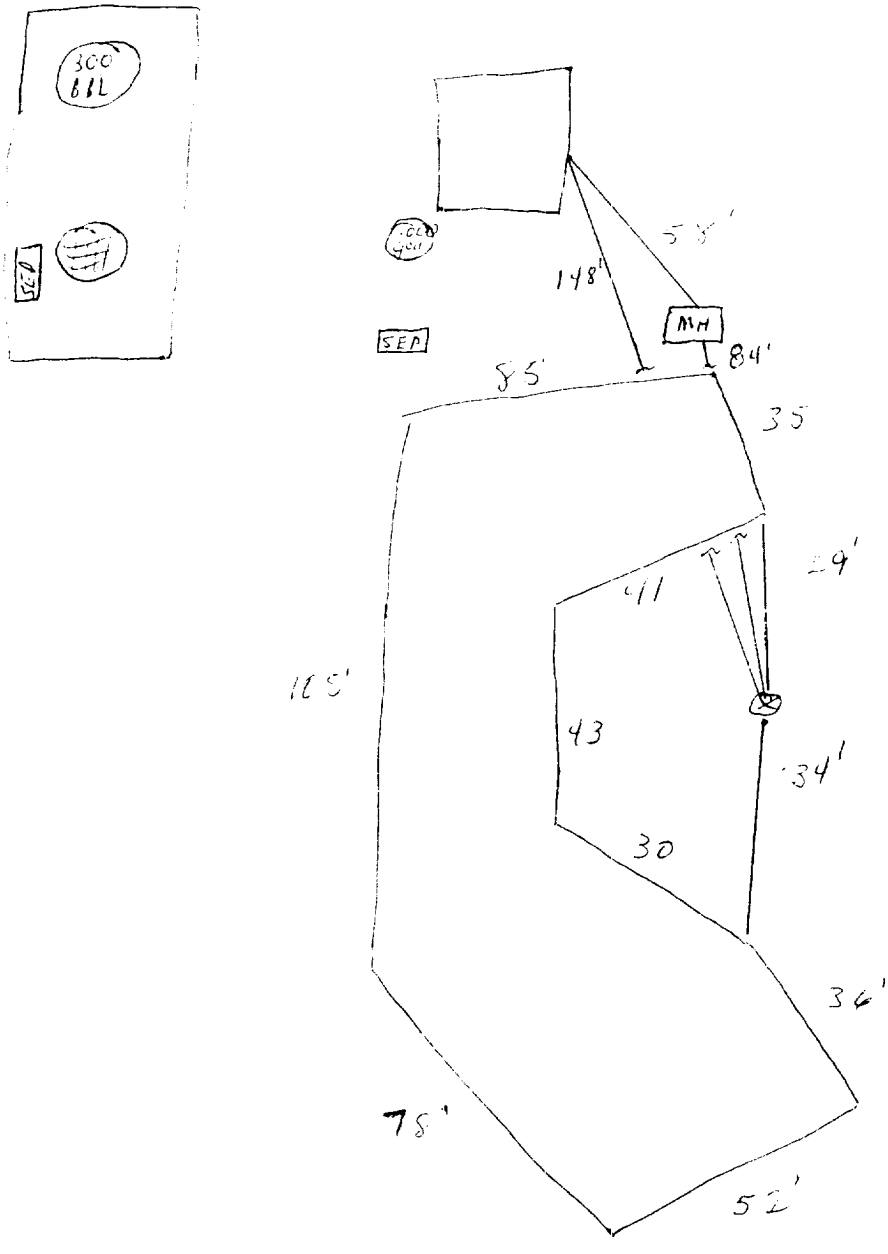
2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.

3. Distance from the site to surface water is greater than 1,000 ft.

4. PNM excavated 287 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered @ 17 ft. below ground surface.

Based upon the information provided above, PNM believes the Mexico Federal K #1 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. Vertical migration through bedrock to groundwater is highly unlikely.

Mexico Federal K #1



OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

Diesel Range Organics

Attn:	*Denver Bearden*	Date:	3-Sep-96
Company:	*PNM Gas Services*	*COC No.:*	*4742*
Address:	*603 W. Elm*	*Sample No.*	*11955*
City, State:	*Farmington, NM 87401*	*Job No.*	*2-1000*

Project Name:	***PNM Gas Sevices - Mexico Federal K #1***				
Project Location:	***9608291600; Pit Excavation Composite Sample***				
Sampled by:	RH	Date:	29-Aug-96	Time:	16:00
Analyzed by:	DC	Date:	3-Sep-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	***Result***	***Unit of Measure***	***Detection Limit***	***Unit of Measure***
Diesel Range Organics (C10 - C28)	198.9	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	106	5.9	15%

Matrix Spike

Parameter	***1- Percent Recovered***	***2 - Percent Recovered***	***Limit***	***%RSD***	***Limit***
Diesel Range (C10-C28)	104	96	(70-130)	5	20%

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

Approved by: DaG

Date: 9/3/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Denver Bearden*	Date:	3-Sep-96
Company:	*PNM Gas Services*	*COC No.:*	*4742*
Address:	*603 W. Elm*	*Sample No.*	*11955*
City, State:	*Farmington, NM 87401*	*Job No.*	*2-1000*

Project Name:	***PNM Gas Sevices - Mexico Federal K #1***				
Project Location:	***9608291600; Pit Excavation Composite Sample***				
Sampled by:	RH	Date:	29-Aug-96	Time:	16:00
Analyzed by:	DC	Date:	3-Sep-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	77.6	ug/kg	0.2	ug/kg
Toluene	8423.7	ug/kg	0.2	ug/kg
Ethylbenzene	3374.1	ug/kg	0.2	ug/kg
m,p-Xylene	45475.9	ug/kg	0.2	ug/kg
o-Xylene	1187.2	ug/kg	0.2	ug/kg
TOTAL	58538.5	ug/kg		

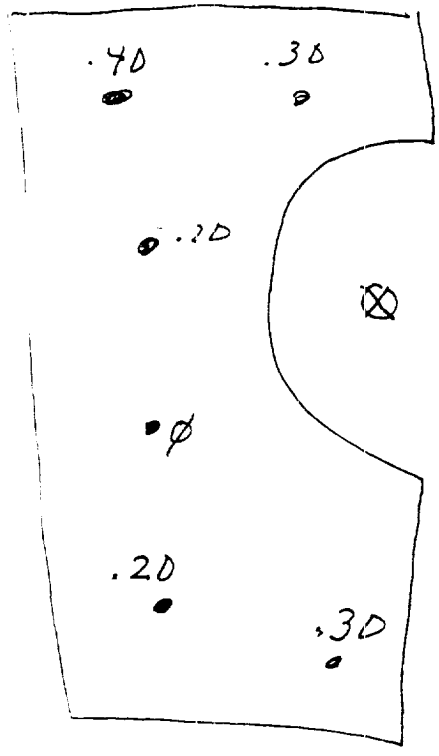
Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG

Date: 9/3/96

Mexico Federal K#1 10-1-96
Four Star
Sec 9, 28N, 10 W

Land Farm : On location
composite sample # 9610011215
Soil vapor head space PID reads = 11.1 ppm



2"-12" depth

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

Diesel Range Organics

Attn:	*Denver Bearden*	Date:	3-Oct-96
Company:	*PNM Gas Services*	*COC No.:*	*5080*
Address:	*603 W. Elm*	*Sample No.*	*12404*
City, State:	*Farmington, NM 87401*	*Job No.*	*2-1000*

Project Name:	***PNM Gas Services - Mexico Federal K #1 Landfarm***				
Project Location:	***9610011215; 6pt. Composite, 2"-12" depth***				
Sampled by:	GC	Date:	1-Oct-96	Time:	12:15
Analyzed by:	DC/HR	Date:	3-Oct-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	***Result***	***Unit of Measure***	***Detection Limit***	***Unit of Measure***
Diesel Range Organics (C10 - C28)	76.5	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	110	9.9	15%

Matrix Spike

Parameter	***1- Percent Recovered***	***2 - Percent 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:
Date: 10/3/96

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	PNM	Project #:	93108-02
Sample ID:	TH - 1 @ 17'	Date Reported:	01-28-97
Laboratory Number:	A919	Date Sampled:	01-27-97
Chain of Custody No:	5060	Date Received:	01-27-97
Sample Matrix:	Soil	Date Extracted:	01-28-97
Preservative:	Cool	Date Analyzed:	01-28-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**230**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**230**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Mexico Fed. K #1.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	PNM	Project #:	93108-02
Sample ID:	TH - 1 @ 17'	Date Reported:	01-28-97
Laboratory Number:	A919	Date Sampled:	01-27-97
Chain of Custody:	5060	Date Received:	01-27-97
Sample Matrix:	Soil	Date Analyzed:	01-28-97
Preservative:	Cool	Date Extracted:	01-28-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**868**	**17.5**
Toluene	**41,900**	**16.7**
Ethylbenzene	**7,960**	**15.2**
p,m-Xylene	**61,300**	**21.6**
o-Xylene	**15,000**	**10.4**
Total BTEX	**127,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**97 %**
	Bromofluorobenzene	**100 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: **Mexico Fed. K #1.**

Analyst

Review

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