

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

JUL 18 1997

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: State Com #1X

Location: Unit: N Sec. 36 T. 32 N R. 12 W County San Juan

Pit Type:	Separator	Dehydrator	✓	Other	No
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Land Type: BLM State Fee ☒ Other No

Pit Location:	Pit dimensions:	length	15	'	width	15	'	depth	3	'
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(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 145'

Direction from reference: 25 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	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	10

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 ☒ APR 24 1997 (20 points)
No ☐ (0 points)

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DIST. 3

Distance to Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet	(20 points)	
200 feet to 1,000 feet	(10 points)	
Greater than 1,000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started:

3/20/96

Date Completed:

3/20/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

322

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

322

Other

Remediation Location:

Onsite

☒

Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 20'x20'x2' 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.

*** Vertical extent at 26.5' provided BTEX at 7.85 ppm and TPH at 11.2 ppm. See attached risk analysis form and lab analysis.

Ground Water Encountered:

No

☒

Yes

Depth

Final Pit Closure Sampling:

Sample Location

5 pt. composite-4 side walls and center of pit bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

18'

Sample date

3/20/96

Sample time

1:00:00 PM

Sample Results

Benzene (ppm)

3.6443

Total BTEX (ppm)

*** 302.1178

Field headspace (ppm)

TPH

3462.00

Method

418.1

Vertical Extent (ft)

26.5'

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



PRINTED NAME
AND TITLE

Denver Bearden
Administrator III



Well Name:	State Com #1X
Well Legals:	Unit N, Sec 36, T32N, R12W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	50 ft to 99 ft

RISK ANALYSIS

PNM requests closure of the State Com #1X using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 90 ft. based upon elevation of site to La Plata 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 322 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Clean soil was encountered @ 26.5 ft. below ground surface. Analytical results attached.

Based upon the information provided above, PNM believes the State Com F #1X 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.

State Com. 1-X

Mesa Operating LTO Partnership (CONOCO)

Sec. 36, T32N, R12W

SE 1/4 - SW 1/4

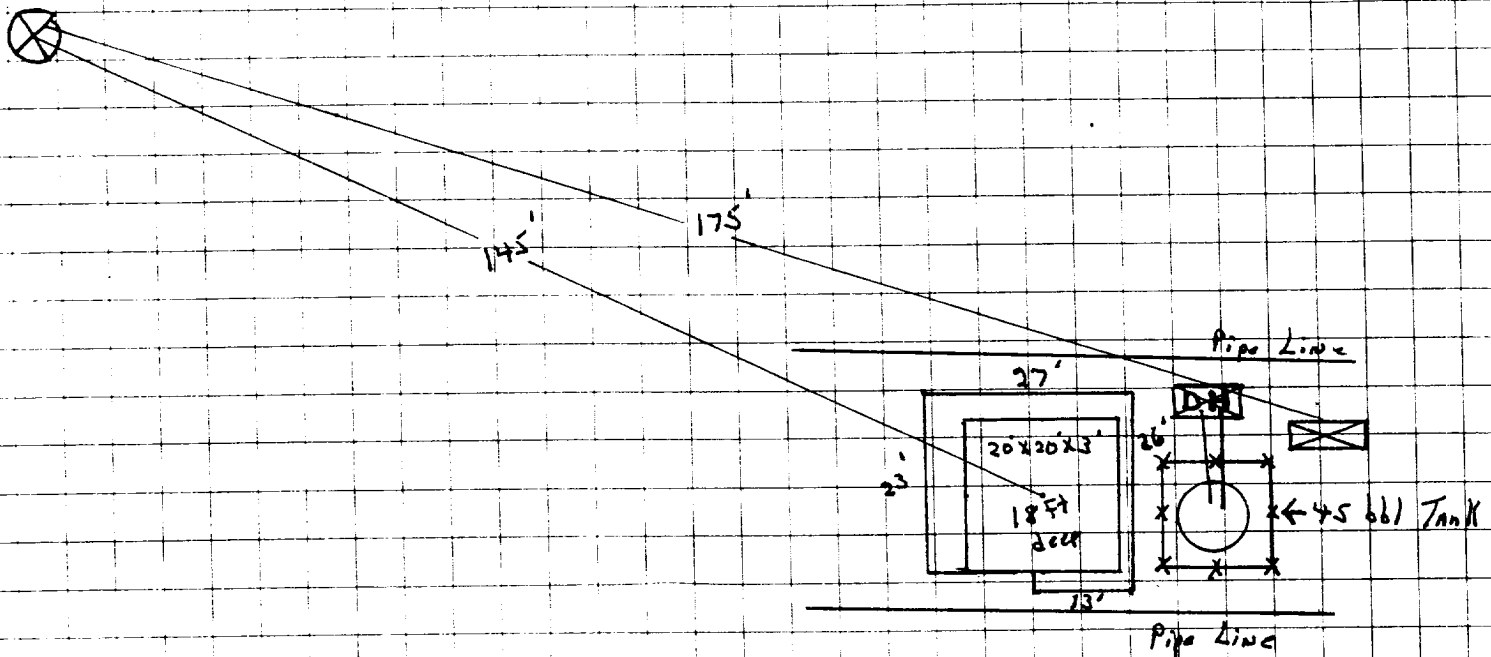
990' FSL & 1650' FWL

San Juan County

N
↑

3-20-96

Removed 322 cubic yards
contaminated soil



OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *21-Mar-96*
COC No.: *4589*
Sample No. *10483*
Job No. *2-1000*

Project Name: *PNM Gas Services - State Com 1-X*
Project Location: *9603201300; 5pt. Composite, 4 Walls and Bottom, 18' deep*
Sampled by: *GC* Date: *20-Mar-96* Time: *13:00*
Analyzed by: *HR* Date: *21-Mar-96*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
<i>10483-4589</i>	<i>PNM Gas Services - State Com 1-X</i> <i>9603201300; 5pt. Composite, 4 Walls and Bottom, 18' deep</i>	<i>3,462 mg/kg</i>

Quality Assurance Report

Laboratory Identification	Analyzed Value	Acceptable Range	Units of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>< 25</i>	<i>< 25</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>910</i>	<i>828 - 1024</i>	<i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *JaF*

Date: *3/21/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *23-Mar-96*
COC No.: *4589*
Sample No. *10483*
Job No. *2-1000*

Project Name: *PNM Gas Services - State Com 1-X*
Project Location: *9603201300; 5pt. Composite, 4 Walls & Bottom, 18' deep*
Sampled by: *GC* Date: *20-Mar-96* Time: *13:00*
Analyzed by: *DC* Date: *23-Mar-96*
Type of Sample: *Soil*

Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	3644.3	ug/kg	0.2	ug/kg
Toluene	62433.9	ug/kg	0.2	ug/kg
Ethylbenzene	16102.4	ug/kg	0.2	ug/kg
m,p-Xylene	179210.8	ug/kg	0.2	ug/kg
o-Xylene	40726.4	ug/kg	0.2	ug/kg
TOTAL		302117.8	ug/kg	

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

Approved by: *[Signature]*
Date: *3/23/96*

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

State Com 1-X

4-24-96

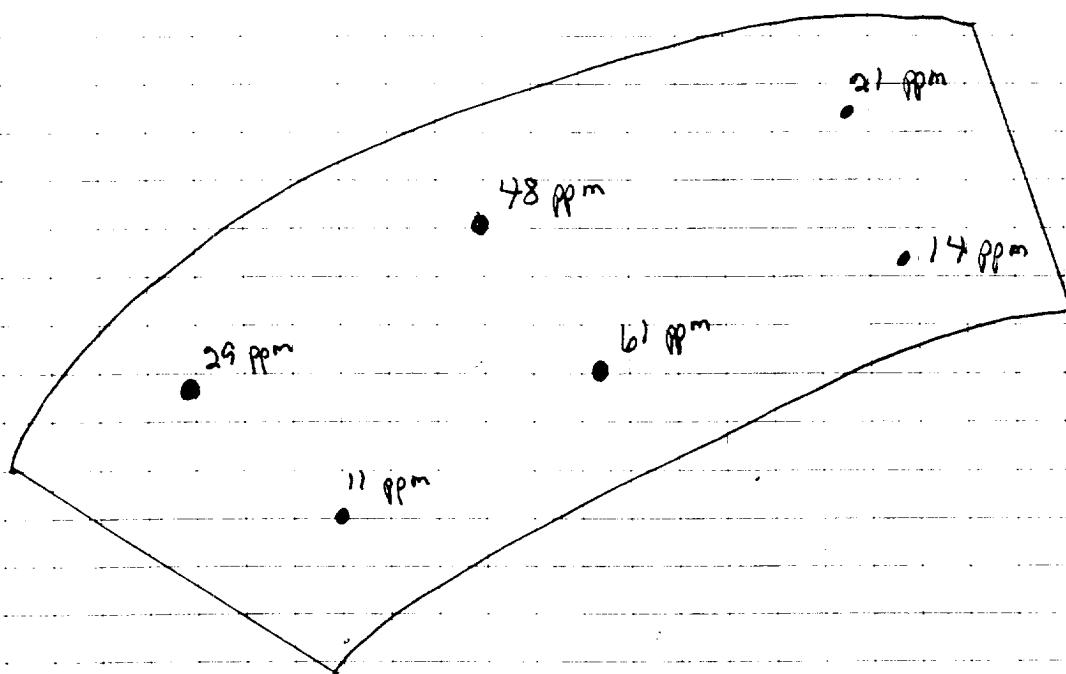
Conoco

Sec. 36, T32N - R12W

Land Farm on-location 322 yds.

Composite sample # 9604241200 (6 pt.)

Soil vapor head-space reading = 68 ppm



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: *26-Apr-96*
COC No.: *4615*
Sample No. *10717*
Job No. *2-1000*

Project Name: ***PNM Gas Services - State Com 1-X Land Farm***
Project Location: ***9604241200; 6pt. Composite, 2"-12" deep***
Sampled by: GC Date: *24-Apr-96* Time: *12:00*
Analyzed by: DC Date: *26-Apr-96*
Sample Matrix: *Soil*

Laboratory Analysis

<i>Analyte</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>548.2</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0446-STD*

Calibration Check

<i>Analyte</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,961</i>	<i>1.9</i>	<i>15%</i>

Matrix Spike

<i>Analyte</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>101</i>	<i>103</i>	<i>(70-130)</i>	<i>1</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *4/26/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

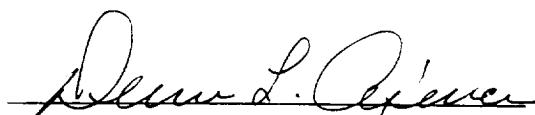
Client:	PNM	Project #:	93108-02
Sample ID:	TH - 2 @ 26.5'	Date Reported:	01-28-97
Laboratory Number:	A920	Date Sampled:	01-27-97
Chain of Custody No:	5060	Date Received:	01-27-97
Sample Matrix:	Soil	Date Extracted:	01-28-97
Preservative:	Cool	Date Analyzed:	01-28-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

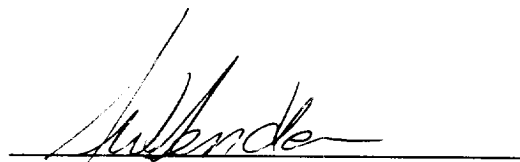
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	11.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	11.2	0.2

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: **State Com #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	PNM	Project #:	93108-02
Sample ID:	TH - 2 @ 26.5'	Date Reported:	01-28-97
Laboratory Number:	A920	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	103	17.5
Toluene	2,090	16.7
Ethylbenzene	420	15.2
p,m-Xylene	4,300	21.6
o-Xylene	934	10.4
Total BTEX	7,850	

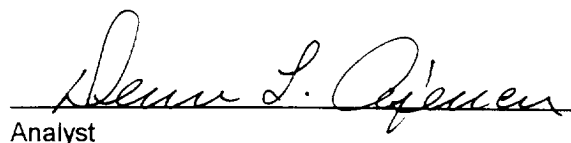
ND - Parameter not detected at the stated detection limit.

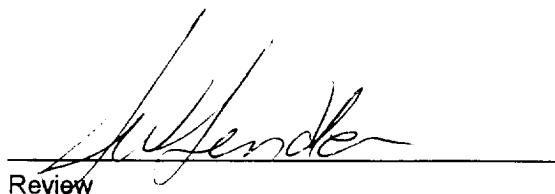
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	101 %

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: State Com #1.


Analyst


Review