

P O. Box 1380, Hobbs, NM

District T

District I

Energy, Minerals and Natural Resources Department

APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

OIL CONSERVATION DIVISION

2040 South Pacheco Street

Santa Fe, New Mexico 87505

# PIT REMEDIATION AND CLOSURE REPORT

RECEIVED  
OCT 31 1996

OIL CON. DIV.

**DIST. 3**

Operator: PNM Gas Services (SRC) Telephone: 324-3764

**Address:** 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: F J Titt #2

**Location:** Unit: M Sec. 35 T. 31 N R. 11 W County San Juan

**Pit Type:** Separator      Dehydrator ✓      Other \_\_\_\_\_

Land Type: BLM State \_\_\_\_\_ Fee ☒ Other \_\_\_\_\_

**Pit Location:** Pit dimensions: length 15 ' width 15 ' depth 5 '

(Attach diagram)      Reference:      wellhead      ☒      other \_\_\_\_\_

Footage from reference: 66

Direction from reference: 45 Degrees ☒ East North ☒

of

West

North ☒

South

**Depth to Ground Water:**

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	( 0 points)

(Vertical distance from contaminants to seasonal high water elevation of ground water)

**Wellhead Protection Area:**

Yes (20 points)  
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)

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

**RANKING SCORE (TOTAL POINTS):**

10

Date Remediation Started:

5/28/96

Date Completed:

5/30/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

483

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

483

Other

Remediation Location:

Onsite

Offsite

FJ Titt #2A 35-31N-11W (182 yds)

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

Alston #1 35-31N-11W (301 yds)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 25'x29'x18' and landfarmed soil offsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

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

5/29/96

Sample time

9:00:00 AM

Sample Results

Benzene (ppm)

0.0016

Total BTEX (ppm)

2.5451

Field headspace (ppm)

TPH

&lt; 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 THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE

October 25, 1996

SIGNATURE



PRINTED NAME  
AND TITLE

Maureen Gannon  
Environmental Engineer

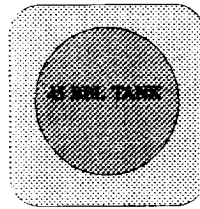
MH



107'

180'

D  
H



25'X29'X18'  
4833 CU. YDS.  
EXCAVATION

MERIDIAN PIT

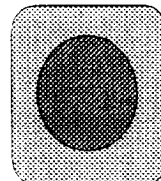
66'

WH

WH

PIT

S  
H



FJ. TITT #2 EXCAVATION — 05/30/96



OFF: (505) 325-8786

LAB: (505) 325-5667

***Diesel Range Organics***

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

Date: *6-Jun-96*  
COC No.: *4688*  
Sample No. *11022*  
Job No. *2-1000*

Project Name: *PNM Gas Services - FJ Titt #2*  
Project Location: *9605290900; Pit Excavation Composite*  
Sampled by: *RH* Date: *29-May-96* Time: *9:00*  
Analyzed by: *HR* Date: *31-May-96*  
Sample Matrix: *Soil*

***Laboratory Analysis***

<i>Parameter</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>&lt; 5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

***Quality Assurance Report***

*DRO QC No.: 0475-QC*

***Calibration Check***

<i>Parameter</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>&lt; 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,802</i>	<i>9.9</i>	<i>15%</i>

***Matrix Spike***

<i>Parameter</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>106</i>	<i>105</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: *Jag*

Date: *6/6/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

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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: *31-May-96*  
COC No.: *4688*  
Sample No.: *11022*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - FJ Titt 2*  
Project Location: *9605290900; Pit Excavation Composite*  
Sampled by: *RH* Date: *29-May-96* Time: *9:00*  
Analyzed by: *HR* Date: *31-May-96*  
Sample Matrix: *Soil*

**Laboratory Analysis**

<i>Component</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	1.6	ug/kg	0.2	ug/kg
<i>Toluene</i>	151.3	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	164.2	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	1790.5	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	437.5	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	2545.1		ug/kg

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

Approved by: *[Signature]*  
Date: *5/31/96*

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F.J. Titt #2  
Meridian  
Sec. 35-31N-11W

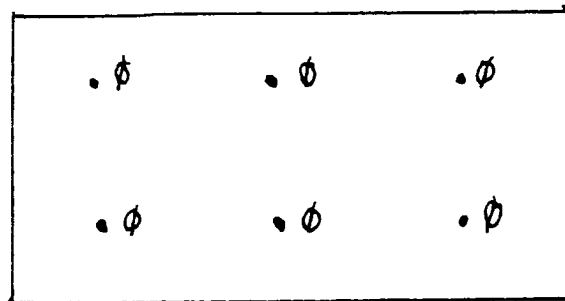
July 30, 1996

Land Farm: Alston #1  
301 Yards

Composite Sample #: 9607311400

Soil Vapor Head-Space Reading = 8.5 ppm (PID)

Sample depths between 2" and 12"



OFF: (505) 325-5667



LAB: (505) 325-1556

***Diesel Range Organics***

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

Date: *2-Aug-96*  
COC No.: *4939*  
Sample No. *11643*  
Job No. *2-1000*

Project Name: *PNM Gas Services - F.J. Titt #2 Alston #1 Landfarm*  
Project Location: *9607301400; 6pt. Composite, 2-12" depth*  
Sampled by: *GC* Date: *30-Jul-96* Time: *14:00*  
Analyzed by: *DC/HR* Date: *1-Aug-96*  
Sample Matrix: *Soil*

***Laboratory Analysis***

<i>Parameter</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>&lt; 5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

***Quality Assurance Report***

*DRO QC No.: 0479-QC*

***Calibration Check***

<i>Parameter</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>&lt; 5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,994</i>	<i>0.3</i>	<i>15%</i>

***Matrix Spike***

<i>Parameter</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>109</i>	<i>99</i>	<i>(70-130)</i>	<i>7</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *8/2/96*

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