

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

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

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

Risk  
De-risk

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> PNM Gas Services ( Burlington )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Thompson #7			
<b>Location:</b>	Unit <u>M</u>	Sec <u>34</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other _____
<b>Pit Location:</b>		Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '	
(Attach diagram)	<b>Reference:</b>	wellhead <input checked="" type="checkbox"/> other _____	
<b>Footage from reference:</b>		<u>95'</u>	
<b>Direction from reference:</b>		<u>15</u> Degrees <input type="checkbox"/> East <input checked="" type="checkbox"/> North <input checked="" type="checkbox"/> of <input checked="" type="checkbox"/> West <input type="checkbox"/> South <input type="checkbox"/>	
<b>Depth to Ground Water:</b>		Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) <u>0</u>	
(Vertical distance from contaminants to seasonal high water elevation of ground water)			
<b>Wellhead Protection Area:</b>		Yes (20 points) No (0 points) <u>0</u>	
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)			
<b>Distance to Surface Water:</b>		Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) <u>0</u>	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			
<b>RANKING SCORE (TOTAL POINTS):</b>		<u>0</u>	

Thompson #7

Date Remediation Started: 06/07/1999

Date Completed: 06/07/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 60

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 30

Other 30 cu yds overburden.

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 a pit size of 16' X 17' X 6' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

\*\*\* Sandstone encountered at 6'. See attached risk analysis form.

Ground Water Encountered:

No

☒

Yes

☐

Depth

Final Pit Closure Sampling:

Sample Location

5 pt composite-bottom

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

Sample depth

6'

Sample date

06/07/1999

Sample time

10:00:00 AM

Sample Results

Benzene (ppm)

0.74

Total BTEX (ppm)

163.34 \*\*\*

Field headspace (ppm)

TPH (ppm)

450.00

Method

8015B

Vertical Extent (ft)

Risk Analysis 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 January 24, 2000

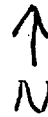
SIGNATURE

*Maureen Gannon*

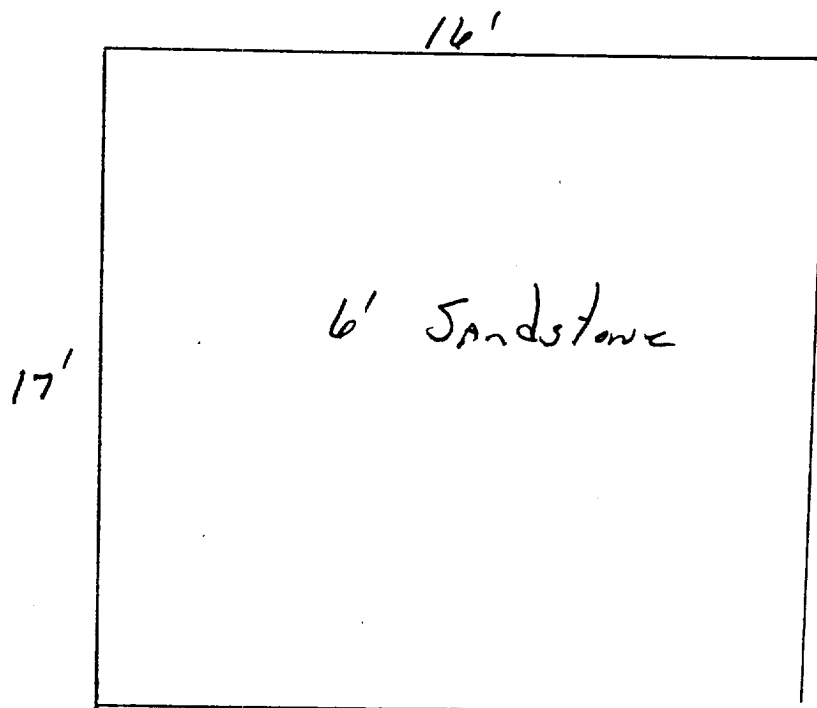
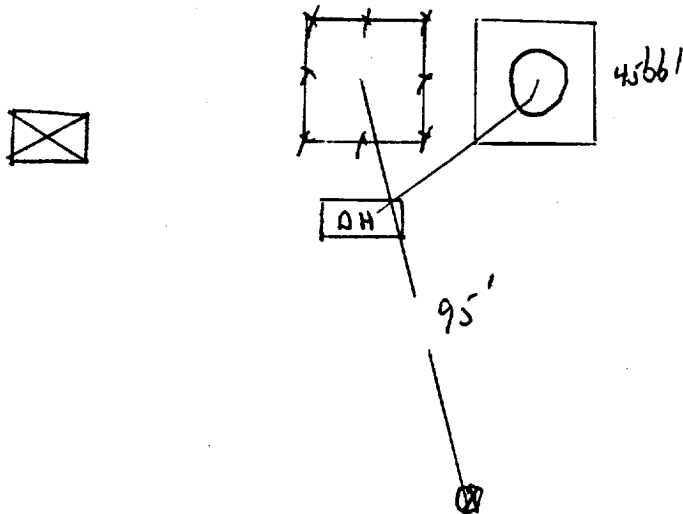
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

Thompson #7  
Burlington  
Sec. 34, 31N, 12W, m

6-7-99



Site diagram:



Field Headspace (walls) - 117 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 17-Jun-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9906017

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

6C

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 17-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Thompson #7
<b>Work Order:</b>	9906017	<b>Client Sample ID:</b>	9906071000, Bottom @ 6'
<b>Lab ID:</b>	9906017-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	6/7/99 10:00:00 AM
		<b>COC Record:</b>	7605

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>						
		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	450	25		mg/Kg	1	6/15/99
<b>AROMATIC VOLATILES BY GC/PID</b>						
		<b>SW8021B</b>				Analyst: DC
Benzene	740	500		µg/Kg	500	6/10/99
Toluene	37000	1000		µg/Kg	500	6/10/99
Ethylbenzene	8600	500		µg/Kg	500	6/10/99
m,p-Xylene	96000	1000		µg/Kg	500	6/10/99
o-Xylene	21000	500		µg/Kg	500	6/10/99

163340  
163.34 ppm

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 17-Jun-99

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9906017  
**Lab ID:** 9906017-06A     **Matrix:** SOIL  
**Project:** PNM Pit Remediation

**Client Sample Info:** Thompson #7

**Client Sample ID:** 9906071005, Walls @ 4'

**Collection Date:** 6/7/99 10:05:00 AM

**COC Record:** 7605

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/10/99

**Qualifiers:**  
PQL - Practical Quantitation Limit  
ND - Not Detected at Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
Surr: - Surrogate

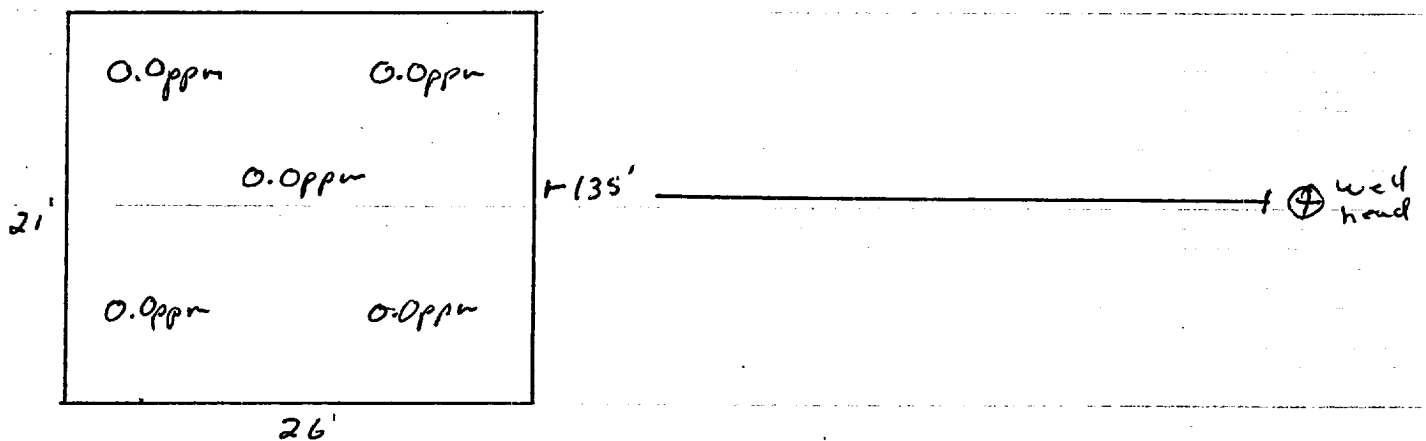
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1 of 1

Thompson #7  
Sec-34 T-31N R-12W ULM  
Burlington

# Landfarm Drawing

App 30 cu. yds



2" to 12" Depth  
Headspace 0.0ppm  
Sample # 99070744 (26)  
9907130744

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 28-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation Landfarms  
**Lab Order:** 9907030

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## **CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 28-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Thompson 7 LF
<b>Work Order:</b>	9907030	<b>Client Sample ID:</b>	9907130744; 5pt. Comp
<b>Lab ID:</b>	9907030-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b>	7/13/99 7:44:00 AM
		<b>COC Record:</b>	7489

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/26/99

**Qualifiers:**

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



## Environmental Services

Well Name:

Thompson #7

Well Legals:

Unit M, Sec 34, T31N, R12W

Pit Type:

Dehydrator

Horizontal Distance to Surface Water:

Greater than 1,000 feet

Groundwater Depth:

Greater than 100 feet

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### **RISK ANALYSIS**

PNM requests closure of their former pit on the Thompson #7 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 196 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Flora Vista, NM series 7.5 minute topographic map.)
2. PNM excavated 60 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 6 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes that their former pit on the Thompson #7 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.