

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

Risk  
below  
RECEIVED  
NOV - 1 1993  
OIL CON. DIV.  
DIST. 3

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

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services ( Breck )		Telephone:	324-3764	
Address:	603 W. Elm Street Farmington, NM 87401				
Facility or Well Name:	Kutz Government #5J				
Location:	Unit	F	Sec	2	T 27N R 10W County San Juan
Pit Type:	Separator	<input checked="" type="checkbox"/>	Dehydrator	<input type="checkbox"/>	Other
Land Type:	BLM	<input checked="" type="checkbox"/>	State	<input type="checkbox"/>	Fee <input type="checkbox"/> Other
Pit Location:	Pit dimensions: length 25 ' width 25 ' depth 1 '				
(Attach diagram)	Reference:	wellhead <input checked="" type="checkbox"/>	other		
	Footage from reference:	96'			
	Direction from reference:	30	Degrees	<input type="checkbox"/> East	North <input type="checkbox"/>
				<input checked="" type="checkbox"/> West	South <input checked="" type="checkbox"/>
Depth to Ground Water:	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)				20
(Vertical distance from contaminants to seasonal high water elevation of ground water)					
Wellhead Protection Area:	Yes (20 points) No (0 points)				0
(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):					20

Date Remediation Started: 07/01/1999

Date Completed: 07/06/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 90

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 70

Other 20 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 15' X 18' X 9' 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 was encountered at 9'. 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 9'

Sample date 07/06/1999

Sample time 7:25:00 AM

## Sample Results

Benzene (ppm) &lt; 0.5

Total BTEX (ppm) 68.8 \*\*\*

Field headspace (ppm)

TPH (ppm) 450.00

Method 8015B

Vertical Extent (ft)

Risk Analysis form attached Yes ☒ No ☐

Ground Water Sample:

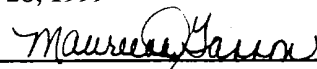
Yes ☐No ☒

(If yes, see attached Groundwater Site Summary Report)

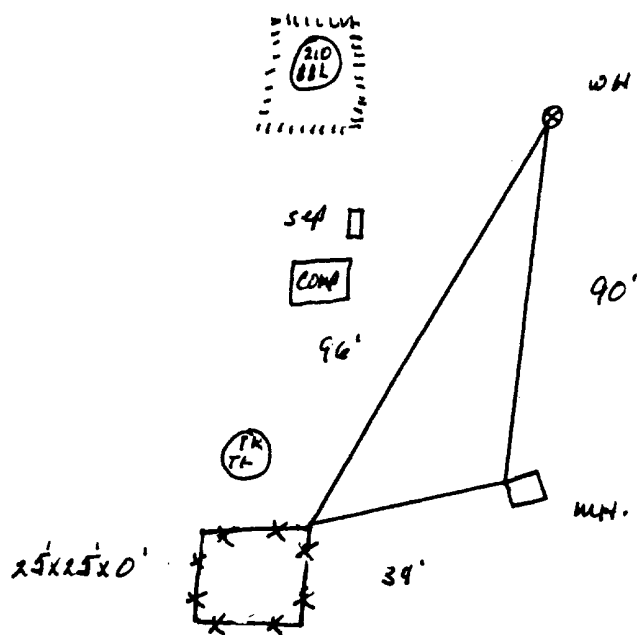
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 28, 1999

SIGNATURE

PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

KUT2 GOUT. #5J  
(F) 2-27-10W  
Breck  
7-1-94 @ 1230  
31° W of S



### Excavation Sampling

15'(N+S) x 18'(E+W) x 4'(D)

### PID Readings

3' - 539 ppm  
6' - 134 ppm  
9' - 475 ppm

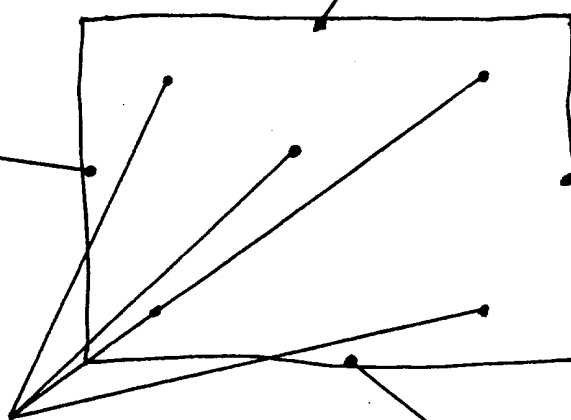
north wall sample  
at 9' - 12.3 ppm

west wall sample  
at 9' - 0 ppm

East wall sample  
at 9' - 0 ppm

5 point composite bottom sample  
at 9' - 755 ppm

South wall sample  
at 9' - 4.6 ppm



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

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**On Site Technologies, LTD.**

**Date:** 20-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9907009

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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.

Ray

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 20-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Kutz Govt. #5J
<b>Work Order:</b>	9907009	<b>Client Sample ID:</b>	9907060725; Spt. Bottom Comp
<b>Lab ID:</b>	9907009-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/6/99 7:25:00 AM
		<b>COC Record:</b>	7644

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	7/16/99
<b>AROMATIC VOLATILES BY GC/PID</b>						
		<b>SW8021B</b>				Analyst: DC
Benzene	ND	500		µg/Kg	500	7/9/99
Toluene	ND	1000		µg/Kg	500	7/9/99
Ethylbenzene	5800	500		µg/Kg	500	7/9/99
m,p-Xylene	53000	1000		µg/Kg	500	7/9/99
o-Xylene	10000	500		µg/Kg	500	7/9/99

68800  
68.80ppm

**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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Kutz Govt. #5J
Work Order:	9907009	Client Sample ID:	9907060730; 4pt. Wall Comp
Lab ID:	9907009-02A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/6/99 7:30:00 AM
		COC Record:	7644

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	86	25		mg/Kg	1	7/16/99

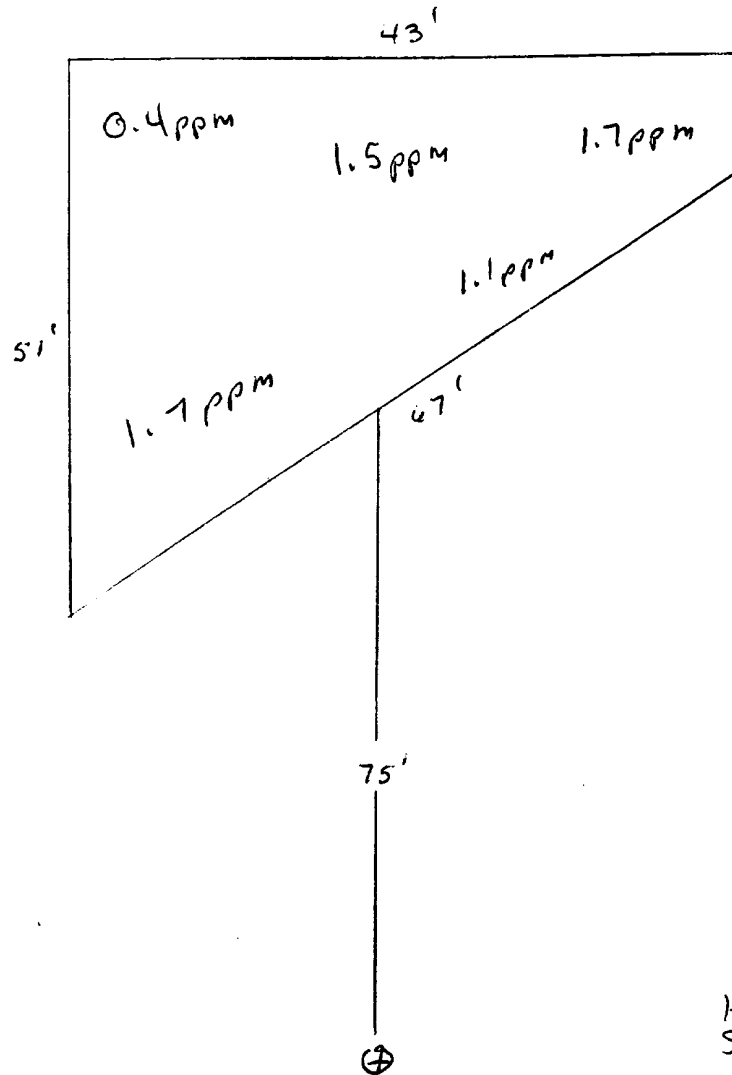
Qualifiers: PQL - Practical Quantitation Limit  
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S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
Surr: - Surrogate

Kutz Government #5J  
Sec-2 T21N R-10W 46-F  
Breck OPERATING CORP

# Landfarm Drawing

App 70 cu. yds



2" to 12" Depth  
Headspace 2.0 ppm  
Sample # 9908061231

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 11-Aug-99

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation Landfarms

**Lab Order:** 9908017

**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.



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Kutz Government J5 LF
Work Order:	9908017	Client Sample ID:	9908061231; 5pt. Composite
Lab ID:	9908017-04A	Matrix:	SOIL
Project:	PNM Pit Remediation Landfarms	Collection Date:	08/06/1999 12:30:00 PM
		COC Record:	7801

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	08/09/1999

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



## Environmental Services

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Well Name:	Kutz Govt. #5J
Well Legals:	Sec 2, T27N, R10W, Unit F
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Less than 50 feet

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### **RISK ANALYSIS**

PNM requests closure of their former pit on the Kutz Govt. #5J well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 12 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Huerfano Peak, NM series 7.5 minute topographic map.)
2. PNM excavated 90 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 9 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 Kutz Govt. #5J well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.