

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  
back*

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

**PIT REMEDIATION AND CLOSURE REPORT**

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: McCord #4E

Location: Unit D Sec 22 T 30 N R 13 W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other                     

Land Type: BLM ☒ State ☐ Fee ☐ Other                     

Pit Location: Pit dimensions: length 15 ' width 15 ' depth 3 '

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 68'

Direction from reference: 90 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) 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 (20 points)  
No ( 0 points) 0

**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):** 0

**RECEIVED**  
JAN 31 2008  
OIL CON. DIV.  
DIST. 3

McCord #4E

Date Remediation Started: 06/16/1999

Date Completed: 06/16/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 34

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 22

Other 12 cu yds overburden

Remediation Location: Onsite

Offsite Tierra Environmental - 22 cu yds.

(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 13' X 14' X 5' and transported soil to an offsite commercial landfarm.

\*\*\* Bedrock encountered at 5'. 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 5'

Sample date 06/16/1999

Sample time 8:25:00 AM

Sample Results

Benzene (ppm) 4.3

Total BTEX (ppm) 157.3 \*\*\*

Field headspace (ppm)

TPH (ppm) 9000.00 \*\*\* Method 8015B

Vertical Extent (ft)

Risk Analysis form attached Yes ☒ No ☐

Ground Water Sample:

Yes



No

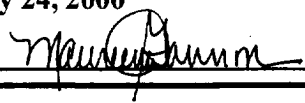


(If yes, see attached Groundwater Site Summary Report)

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

DATE January 24, 2000

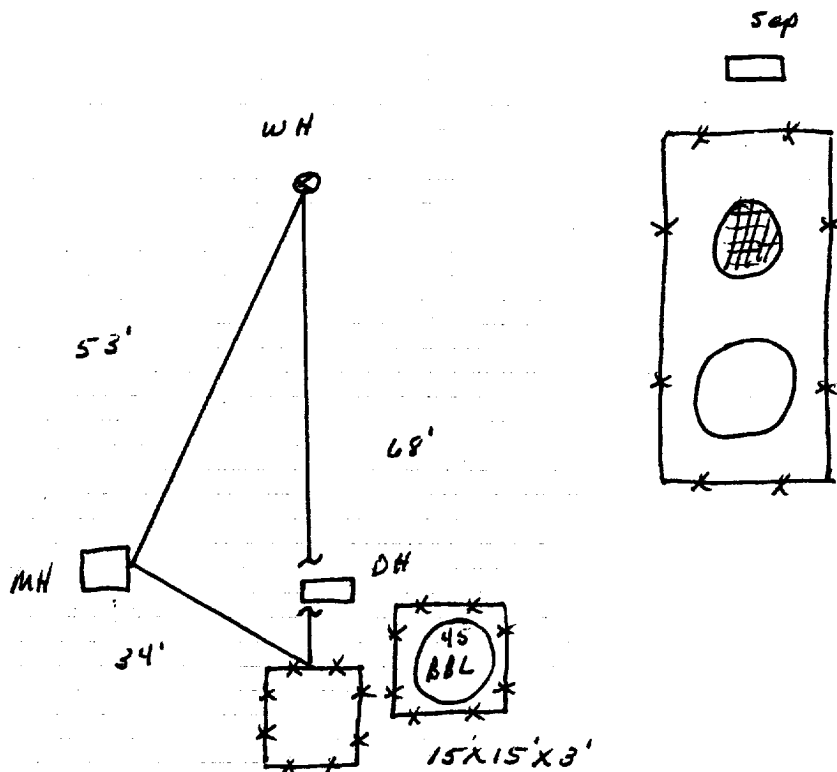
SIGNATURE



PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

Mc Cord #4E  
 (D) 22-30N-13W  
 Energen  
 4-16-94 @ 0830  
 90° E of N

N

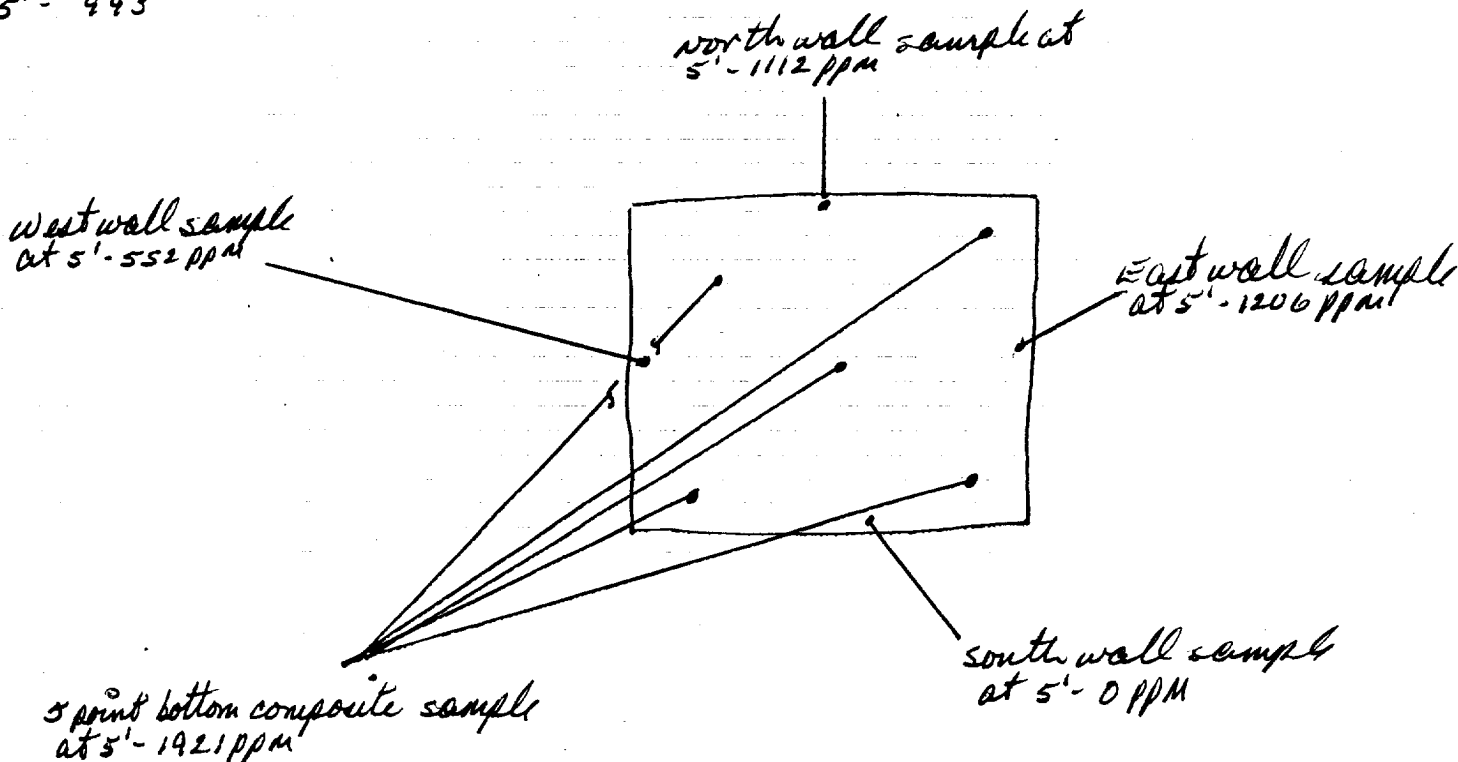


## Excavation Sampling

13' (N+S) x 14' (E+W) x 5' (D)

## PID Readings

3' - saturated  
 5' - 993



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 30-Jun-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9906059

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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.

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RA

# ANALYTICAL REPORT

Date: 30-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	McCord #4E
<b>Work Order:</b>	9906059	<b>Client Sample ID:</b>	9906160825; 5pt. Bottom Comp
<b>Lab ID:</b>	9906059-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	6/16/99 8:25:00 AM
		<b>COC Record:</b>	7640

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	9000	250		mg/Kg	10	6/30/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DC
Benzene	4300	500		µg/Kg	500	6/24/99
Toluene	47000	1000		µg/Kg	500	6/24/99
Ethylbenzene	12000	500		µg/Kg	500	6/24/99
m,p-Xylene	74000	1000		µg/Kg	500	6/24/99
o-Xylene	20000	500		µg/Kg	500	6/24/99

157300  
157.30 ppm

## 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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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 30-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	McCord #4E
<b>Work Order:</b>	9906059	<b>Client Sample ID:</b>	9906160830; 4pt. Wall Comp
<b>Lab ID:</b>	9906059-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	6/16/99 8:30:00 AM
		<b>COC Record:</b>	7640

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	830	25		mg/Kg	1	6/29/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DC
Benzene	2.1	2		µg/Kg	2	6/23/99
Toluene	140	4		µg/Kg	2	6/23/99
Ethylbenzene	100	2		µg/Kg	2	6/23/99
m,p-Xylene	760	4		µg/Kg	2	6/23/99
o-Xylene	270	2		µg/Kg	2	6/23/99

1272.1  
1.27 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

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1 of 1



## Environmental Services

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Well Name:	McCord #4E
Well Legals:	Sec 22, T30N, R13W, Unit D
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 McCord #4E well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 158 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Farmington North, NM series 7.5 minute topographic map.)
2. PNM excavated 34 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 5 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 McCord #4E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.