

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  
backcheck*

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

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> <u>PNM Gas Services (Energex)</u>		<b>Telephone:</b> <u>324-3764</u>										
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>												
<b>Facility or Well Name:</b> <u>McCord #5E</u>												
<b>Location:</b>	Unit <u>O</u>	Sec <u>27</u>	T <u>30N</u> R <u>13W</u> County <u>San Juan</u>									
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <u>                    </u>									
<b>Land Type:</b>	BLM <input type="checkbox"/>	State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/> Other <u>                    </u>									
<b>Pit Location:</b> Pit dimensions: length <u>18</u> ' width <u>18</u> ' depth <u>3</u> '												
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <u>                    </u>											
Footage from reference: <u>106</u> '												
Direction from reference: <u>57</u> Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> West of North <input checked="" type="checkbox"/> South <input type="checkbox"/>												
<b>Depth to Ground Water:</b> <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>												
<table style="width: 100%;"><tr><td>Less than 50 feet</td><td>(20 points)</td><td></td></tr><tr><td>50 feet to 99 feet</td><td>(10 points)</td><td></td></tr><tr><td>Greater than 100 feet</td><td>(0 points)</td><td><u>0</u></td></tr></table>				Less than 50 feet	(20 points)		50 feet to 99 feet	(10 points)		Greater than 100 feet	(0 points)	<u>0</u>
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50 feet to 99 feet	(10 points)											
Greater than 100 feet	(0 points)	<u>0</u>										
<b>Wellhead Protection Area:</b> <small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>												
<table style="width: 100%;"><tr><td>Yes</td><td>(20 points)</td><td></td></tr><tr><td>No</td><td>(0 points)</td><td><u>0</u></td></tr></table>				Yes	(20 points)		No	(0 points)	<u>0</u>			
Yes	(20 points)											
No	(0 points)	<u>0</u>										
<b>Distance to Surface Water:</b> <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>												
<table style="width: 100%;"><tr><td>Less than 200 feet</td><td>(20 points)</td><td></td></tr><tr><td>200 feet to 1,000 feet</td><td>(10 points)</td><td></td></tr><tr><td>Greater than 1,000 feet</td><td>(0 points)</td><td><u>0</u></td></tr></table>				Less than 200 feet	(20 points)		200 feet to 1,000 feet	(10 points)		Greater than 1,000 feet	(0 points)	<u>0</u>
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200 feet to 1,000 feet	(10 points)											
Greater than 1,000 feet	(0 points)	<u>0</u>										
<b>RANKING SCORE (TOTAL POINTS):</b>			<u>0</u>									

**RECEIVED**  
JAN 31 2000  
**OIL CON. DIV.**  
DIST. 3

McCord #5E

Date Remediation Started: 06/17/1999 Date Completed: 06/17/1999

Remediation Method: Excavation ☒ Approx. Cubic Yard 50(Check all appropriate sections) Landfarmed ☒ Amount Landfarmed (cubic yds) 50

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 a pit size of 16.5' X 16.5' X 5' 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 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 06/17/1999 Sample time 12:08:00 PM

## Sample Results

Benzene (ppm) 3.3

Total BTEX (ppm) 122.3 \*\*\*

Field headspace (ppm) \_\_\_\_\_

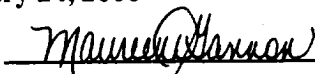
TPH (ppm) 6710.00 \*\*\* Method 8015B

Vertical Extent (ft) \_\_\_\_\_ Risk Analysis form attached Yes ☒ No ☐Ground Water Sample: Yes ☐ No ☒ (If yes, see attached Groundwater Site Summary Report)

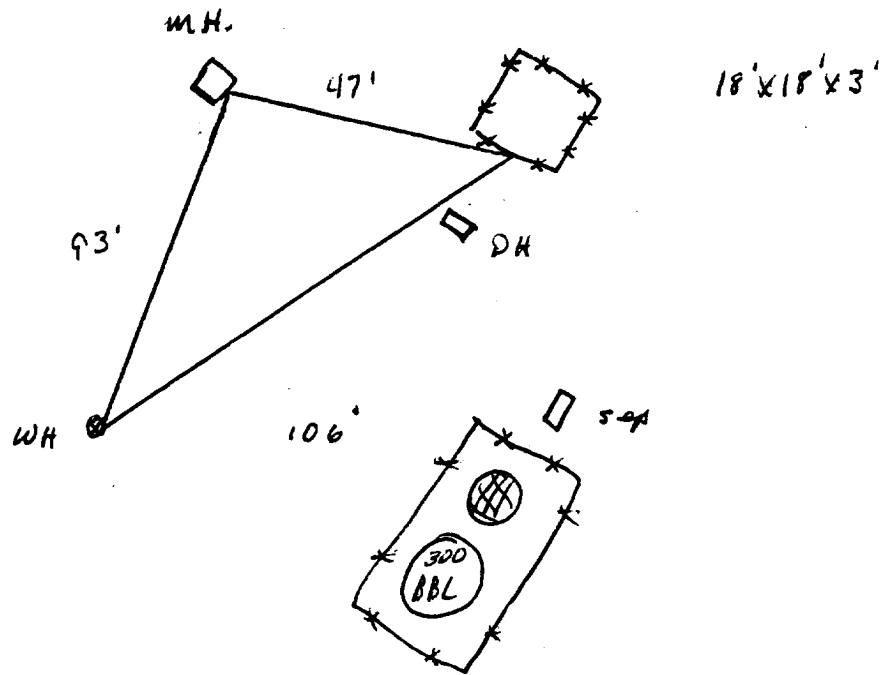
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE January 24, 2000

SIGNATURE

PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

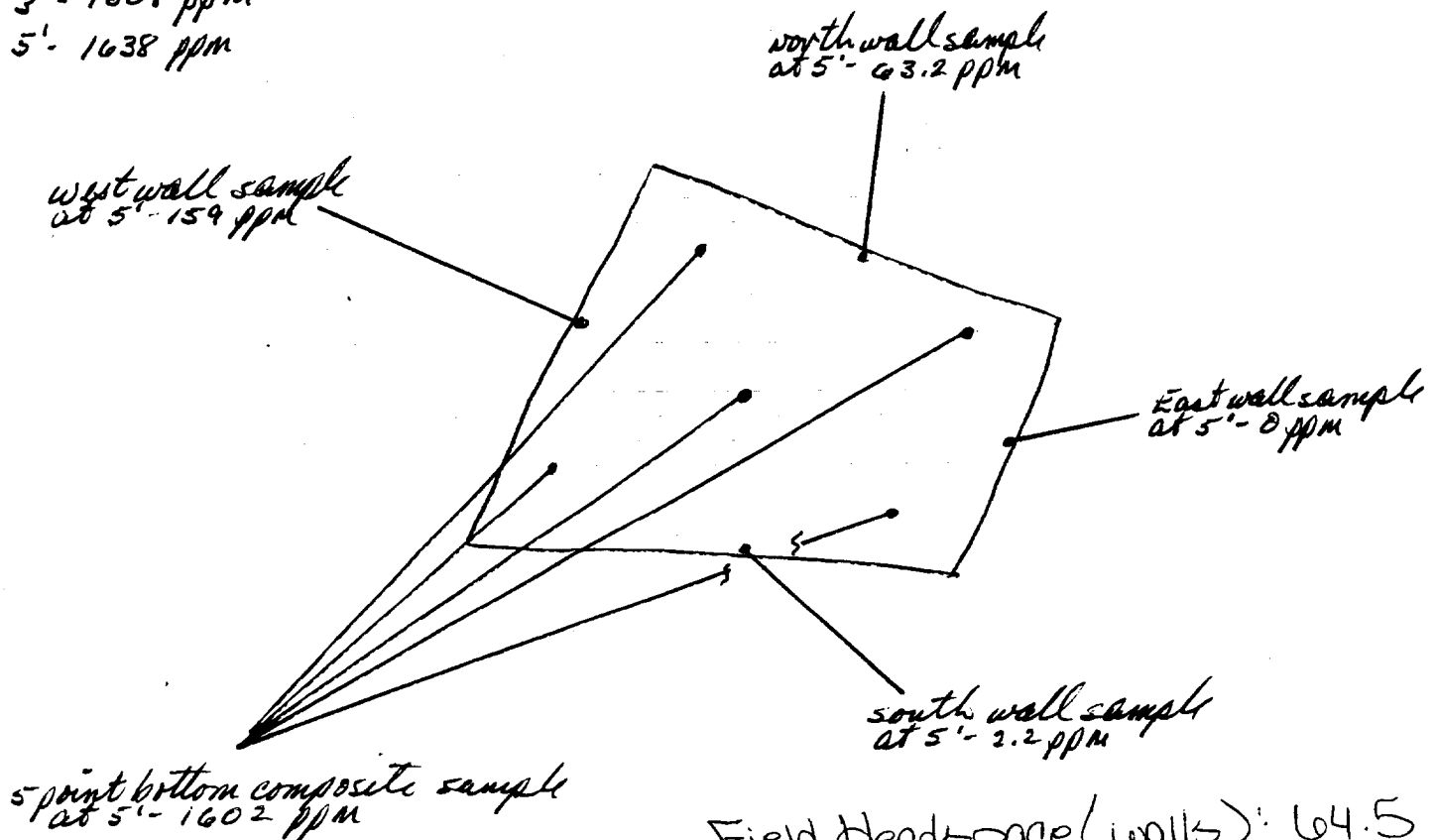
McCord #5E  
 (O) 27-30N-13W  
 Evergreen  
 0436 @ 6-17-99  
 57° EAN



# Excavation Sampling

16.5'(N+S) x 16.5'(E+W) x 5'(@)

PID Readings  
 3'- 1308 ppm  
 5'- 1638 ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 07-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** McCord #5 & #5E  
**Lab Order:** 9906063

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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: 07-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	McCord #5E
<b>Work Order:</b>	9906063	<b>Client Sample ID:</b>	9906171208; 5pt. Bottom Comp
<b>Lab ID:</b>	9906063-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	McCord #5 & #5E	<b>Collection Date:</b>	6/17/99 12:08:00 PM
		<b>COC Record:</b>	7641

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	6710	120		mg/Kg	5	7/1/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DC
Benzene	3300	250		µg/Kg	250	6/24/99
Toluene	34000	500		µg/Kg	250	6/24/99
Ethylbenzene	7000	250		µg/Kg	250	6/24/99
m,p-Xylene	60000	500		µg/Kg	250	6/24/99
o-Xylene	18000	250		µg/Kg	250	6/24/99

122300  
122.30 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: 07-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	McCord #5E
<b>Work Order:</b>	9906063	<b>Client Sample ID:</b>	9906171215; 4pt. Wall Comp
<b>Lab ID:</b>	9906063-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	McCord #5 & #5E	<b>Collection Date:</b>	6/17/99 12:15:00 PM
		<b>COC Record:</b>	7641

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	480	25		mg/Kg	1	7/1/99

**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

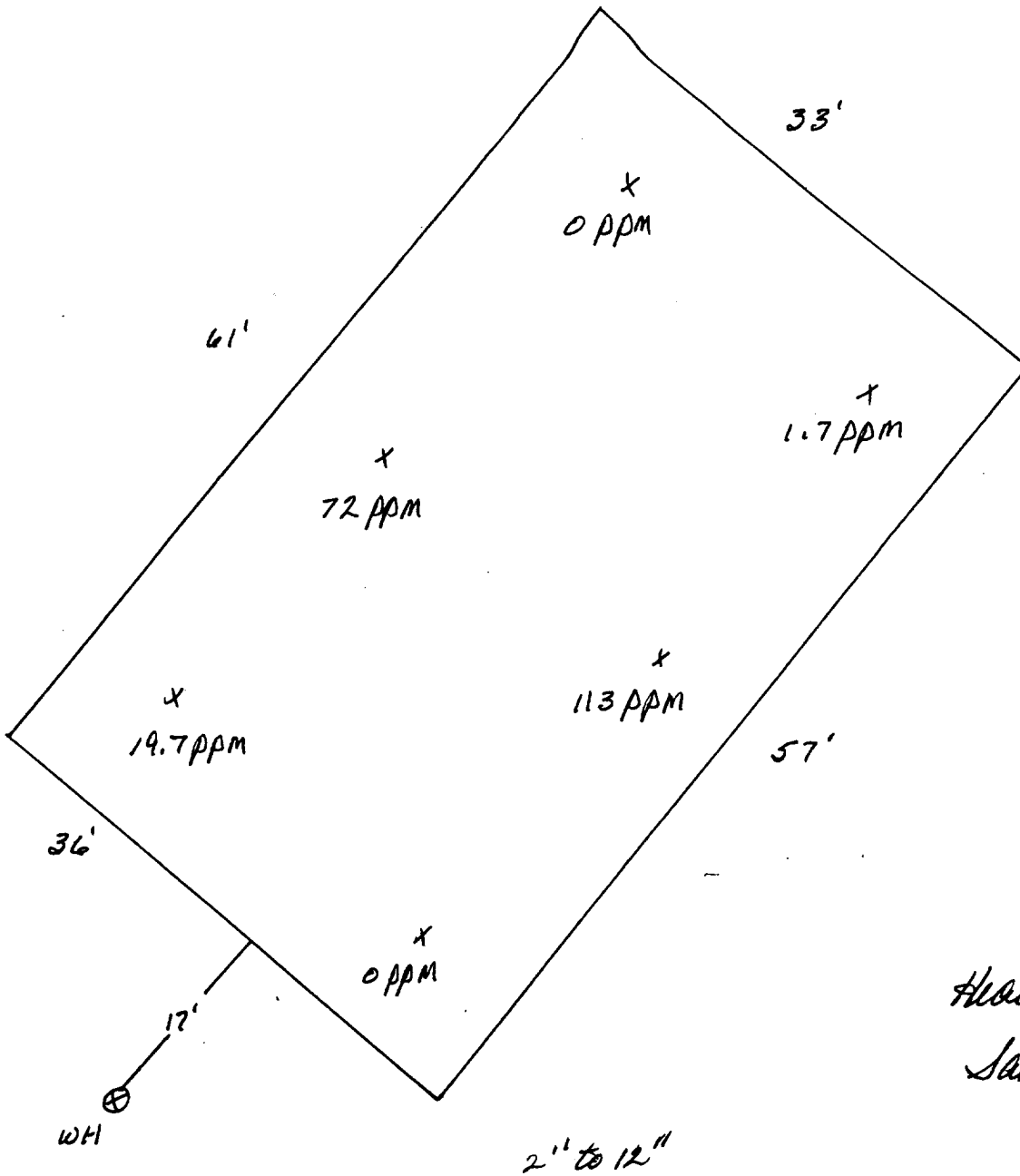
1 of 1

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PROVIDING REMEDIATION INDUSTRIES WITH THE BEST ANALYTICAL

McCord # 5E  
Sec. - 34 T-30N R-13W  
Evergreen

# Landfarm Drawing



Head Spall - 40.7 ppm  
Sample # - 9908121415

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date: 17-Aug-99**

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation Landfarms  
**Lab Order:** 9908034

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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: 17-Aug-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b> McCord #5E LF
<b>Work Order:</b>	9908034	<b>Client Sample ID:</b> 9908121415; 6pt Comp
<b>Lab ID:</b>	9908034-06A	<b>Matrix:</b> SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b> 08/12/1999 2:15:00 PM
		<b>COC Record:</b> 7653

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	3230	25		mg/Kg	1	08/13/1999

**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

1 of 1

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## **Environmental Services**

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Well Name:	McCord #5E
Well Legals:	Sec 27, T30N, R13W, Unit O
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 #5E well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 190 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 50 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 #5E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.