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DISTRICT OFFICE  
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SANTA FE OFFICE

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

MAR 28 1997

## PIT REMEDIATION AND CLOSURE REPORT

*Approved*

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Zachry #15E

Location: Unit: C Sec. 33 T. 29 N R. 10 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: 113'

Direction from reference: 60 Degrees ☒ East of    North   

☐ West of    South ☒

### Depth to Ground Water:

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

Less than 50 feet  
50 feet to 99 feet  
Greater than 100 feet

(20 points)  
(10 points)  
(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  
No

(20 points)  
(0 points)

0

### Distance to Surface Water:

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

Less than 200 feet  
200 feet to 1,000 feet  
Greater than 1,000 feet

(20 points)  
(10 points)  
(0 points)

0

RANKING SCORE (TOTAL POINTS):

0

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JAN 24 1997  
OIL CON. DIV.  
DIST. 3

Date Remediation Started:

9/5/96

Date Completed:

9/6/96

Remediation Method:

Excavation

☒

Approx. Cubic Yard

143

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

143

Other

Remediation Location:

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

Onsite

☒

Offsite

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size 22'x16'x11' and landfarmed soil onsite 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

11'

Sample date

9/6/96

Sample time

9:20:00 AM

Sample Results

Benzene (ppm)

&lt; 0.0002

Total BTEX (ppm)

0.0056

Field headspace (ppm)

TPH

&lt; 5.0

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

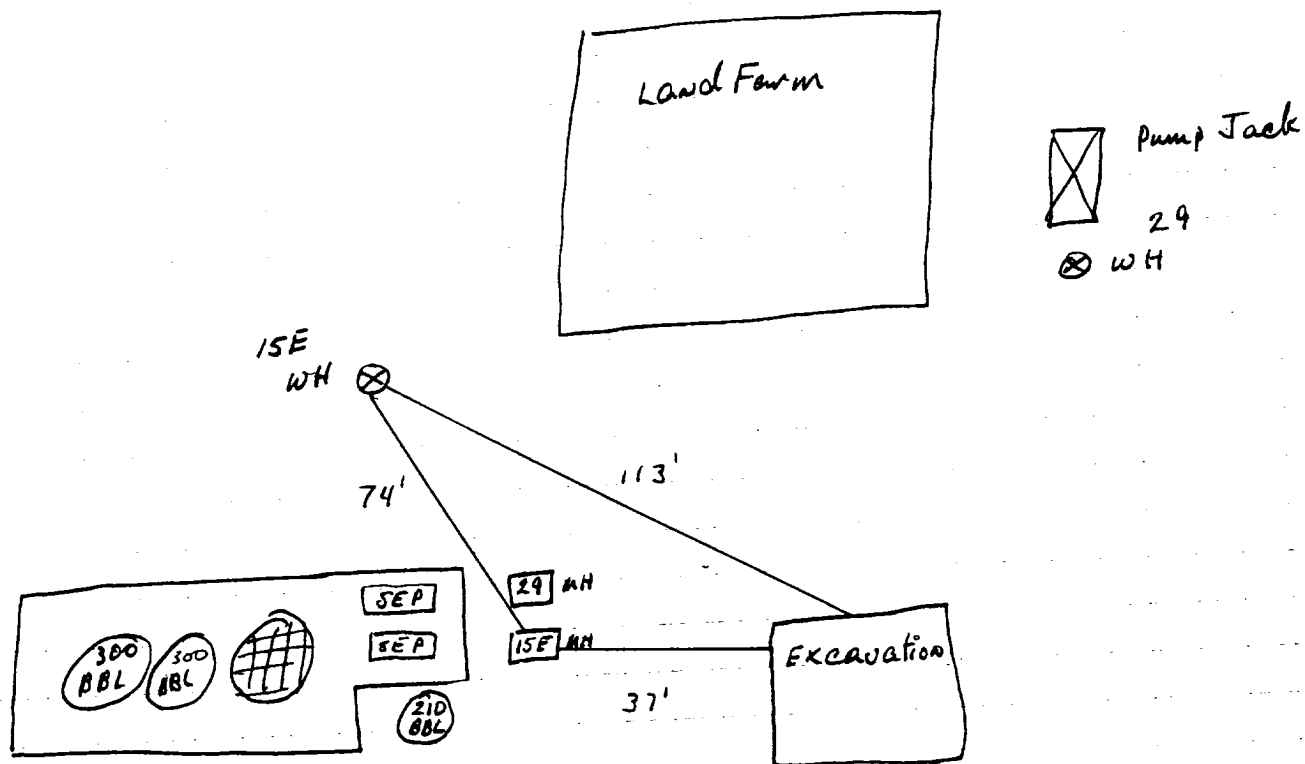
January 22, 1997

SIGNATURE

PRINTED NAME  
AND TITLEDenver Bearden  
Administrator III

zachwy 15E/zachwy 29

1  
N



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: *10-Sep-96*  
COC No.: *4747*  
Sample No. *12052*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Zachry 15E*  
Project Location: *9609060920; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *6-Sep-96* Time: *9:20*  
Analyzed by: *DC* Date: *9-Sep-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.: *0489-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>100</i>	<i>109</i>	<i>9.0</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>98</i>	<i>114</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *9/10/96*

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OFF: (505) 325-5667



LAB: (505) 325-1556

### AROMATIC VOLATILE ORGANICS

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

Date: *10-Sep-96*  
COC No.: *4747*  
Sample No.: *12052*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 15E*  
Project Location: *9609060920; Pit Excavation Composite Sample*  
Sampled by: *RH* Date: *6-Sep-96* Time: *9:20*  
Analyzed by: *DC* Date: *5-Sep-96*  
Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	<0.2	ug/kg	0.2	ug/kg
Toluene	3.5	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	2.1	ug/kg	0.2	ug/kg
o-Xylene	<0.2	ug/kg	0.2	ug/kg
TOTAL		5.6		ug/kg

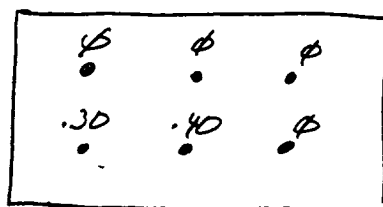
**Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*  
Date: *9/10/96*

Zachery #15E  
Meridian Oil  
Sec. 33, 29N, 10W

10-22-96

Land Farm: On location  
Composite sample # 9610221110 6 pt. comp.  
Soil Vapor headspace PID reading: 4.7 ppm



2"-12" depth



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: *22-Oct-96*  
COC No.: *5062*  
Sample No. *12658*  
Job No. *2-1000*

Project Name: *PNM Gas Services - Zachery #15E Landfarm*  
Project Location: *9610221110; 6pt. Composite, 2"-12" depth*  
Sampled by: *GC* Date: *22-Oct-96* Time: *11:10*  
Analyzed by: *DC/HR* Date: *22-Oct-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.: 0489-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>100</i>	<i>102</i>	<i>2.1</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>95</i>	<i>97</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: *[Signature]*  
Date: *10/22/96*

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