

District I
P.O. Box 980 Hobbs, NM
District II
P.O. Drawer 10000 Hobbs, NM 88240
District III
P.O. Box 30000 Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Denny L. Faust
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

JUL 18 1997

BIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: PNM Gas Services (Burlington Resources) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: McClanahan #14E

Location: Unit: E Sec. 23 T. 28 N R. 10 W County San Juan

Pit Type: Separator Dehydrator ☒ Other Drip

Land Type: BLM ☒ State Fee Other No

Pit Location: Pit dimensions: length 18 width 18 depth 3

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 107'

Direction from reference: 71 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)	<u>0</u>

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)

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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)	<u>10</u>

RANKING SCORE (TOTAL POINTS): 10

OIL CON. DIV.
DIST. 3

Date Remediation Started: 10/22/96 Date Completed: 10/23/96

Remediation Method: Excavation ☒ Approx. Cubic Yard 179

(Check all appropriate sections)

Landfarmed ☒ Amount Landfarmed (cubic yds) 179

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 15'X17'X19' 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 Bottom of excavation.

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

Sample depth 19'

Sample date 10/22/96 Sample time 2:30:00 PM

Sample Results

Benzene (ppm) 0.0554

Total BTEX (ppm) 17.7598

Field headspace (ppm) _____

TPH 18.80 Method 8015A

Vertical Extent (ft) _____ Risk Assessment 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

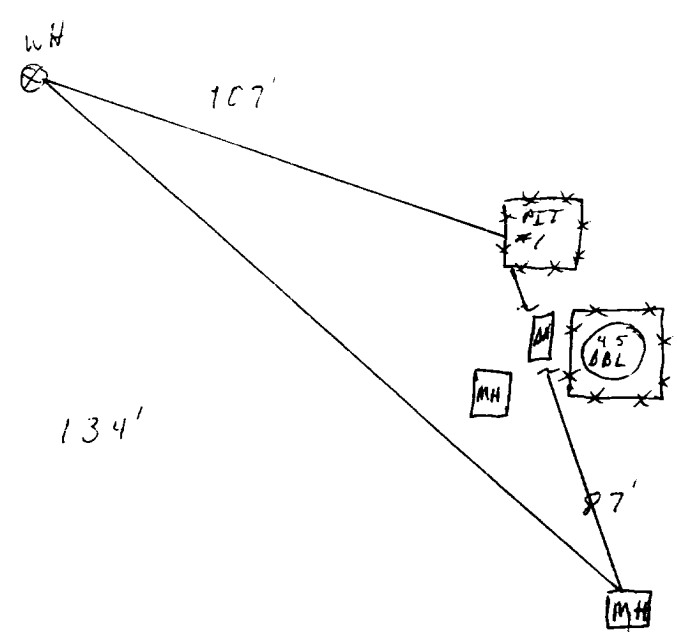
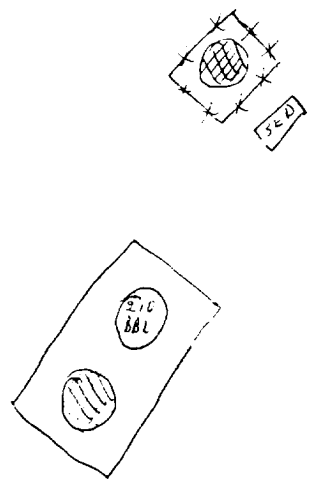
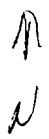
DATE April 28, 1997

SIGNATURE



PRINTED NAME AND TITLE Denver Bearden Administrator III

McClellan #14E
 71° E of South
 107' from wellhead.



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: *23-Oct-96*
COC No.: *5082*
Sample No. *12664*
Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan 14E*
Project Location: *9610221430; Pit Excavation Composite, Bottom Sample*
Sampled by: *RH* Date: *22-Oct-96* Time: *14:30*
Analyzed by: *DC/HR* Date: *23-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>18.8</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>< 5.0</i>	<i>ppm</i>	<i>100</i>	<i>96</i>	<i>3.6</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: 

Date: *10/23/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *23-Oct-96*
COC No.: *5082*
Sample No. *12664*
Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan 14E*
Project Location: *9610221430; Pit Excavation Composite, Bottom Sample*
Sampled by: *RH* Date: *22-Oct-96* Time: *14:30*
Analyzed by: *DC* Date: *23-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i>55.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>3056.5</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>763.8</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>11811.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>2073.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>17759.8</i>		<i>ug/kg</i>

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

Approved by: *[Signature]*
Date: *10/23/96*

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: *23-Oct-96*
COC No.: *5081*
Sample No. *12663*
Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan 14E*
Project Location: *9610221445; Pit Excavation Composite, Wall Sample*
Sampled by: *RH* Date: *22-Oct-96* Time: *14:45*
Analyzed by: *DC/HR* Date: *23-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>219.2</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0489-QC

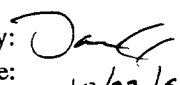
Calibration Check

<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>< 5.0</i>	<i>ppm</i>	<i>100</i>	<i>96</i>	<i>3.6</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: 

Date: *10/23/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *23-Oct-96*
COC No.: *5081*
Sample No. *12663*
Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan 14E*
Project Location: *9610221445; Pit Excavation Composite, Wall Sample*
Sampled by: *RH* Date: *22-Oct-96* Time: *14:45*
Analyzed by: *DC* Date: *23-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	134.3	ug/kg	0.2	ug/kg
<i>Toluene</i>	7873.6	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	3390.6	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	57169.9	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	12327.8	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	80896.1	ug/kg	

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

Approved by: 
Date: *10/23/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

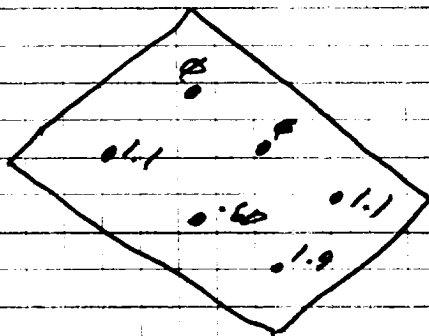
McClanahan #14 E
Meridian
Sec. 23, 28N, 10W

12-26-96

Land Farm: On location

Composite sample # 961226 103U

Soil vapor headspace PID reading = 6.9 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: *31-Dec-96*
 COC No.: *5106*
 Sample No. *13259*
 Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan #14E Landfarm*
 Project Location: *9612261030; 6pt. Composite, 2"-12" deep*
 Sampled by: *GC* Date: *26-Dec-96* Time: *10:30*
 Analyzed by: *HR* Date: *30-Dec-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><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance ReportDRO QC No.: *0512-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><5.0</i>	<i>ppm</i>	<i>100</i>	<i>98</i>	<i>1.6</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>123</i>	<i>106</i>	<i>(70-130)</i>	<i>11</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: Date: *12/31/96*

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