

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

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

Denny L. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 28 1997

Approved
PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
OCT 31 1996

OIL CON. DIV.
DEC 3

Operator: PNM Gas Services (SRC) **Telephone:** 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: McClanahan #16E
Location: Unit: E Sec. 24 T. 28 N R. 10 W County San Juan
Pit Type: Separator Dehydrator ☒ Other
Land Type: BLM ☒ State Fee Other

Pit Location: Pit dimensions: length 20 width 20 depth 3
(Attach diagram) Reference: wellhead ☒ other
Footage from reference: 118'
Direction from reference: 80 Degrees East North
West of 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) 10

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): 10

Date Remediation Started: 8/22/96 **Date Completed:** 8/22/96

Remediation Method: Excavation X Approx. Cubic Yard 83

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 83

Other _____

Remediation Location: Onsite X Offsite _____

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

Backfill Material Location: _____

General Description of Remedial Action:

Excavated contaminated soil to pit size of 16'x20'x7' 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 7'

Sample date 8/22/96 Sample time 10:50:00 AM

Sample Results

Benzene (ppm) 0.0445

Total BTEX (ppm) 4.4995

Field headspace (ppm) _____

TPH < 5.00 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 October 25, 1996

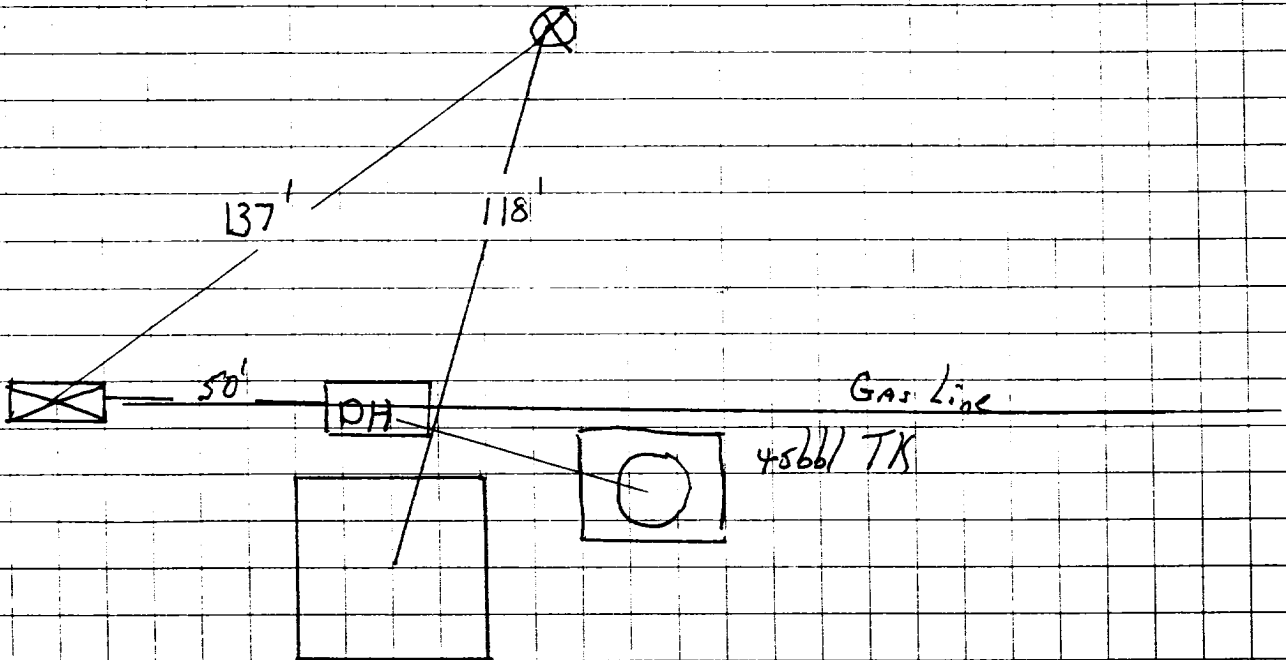
SIGNATURE Maureen D. Gannon

PRINTED NAME Maureen Gannon
AND TITLE Environmental Engineer

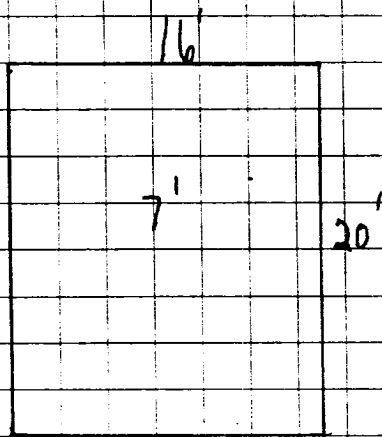
McClanahan #16 E
Meridian

8-22-96

80° W of S



Excavated P.T: $16 \times 20 \times 7 = 83 \text{ cu. yds.}$



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: *27-Aug-96*
 COC No.: *4976*
 Sample No. *11885*
 Job No. *2-1000*

Project Name: *PNM Gas Services - McClanahan #16E*
 Project Location: *9608221050; 4 Walls @ 6' and Bottom @ 7'*
 Sampled by: *GC* Date: *22-Aug-96* Time: *10:50*
 Analyzed by: *DC/BV* Date: *27-Aug-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.: *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>104</i>	<i>3.8</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>108</i>	<i>103</i>	<i>(70-130)</i>	<i>4</i>	<i>20%</i>

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

Approved by: *JaC*
 Date: *8/27/96*

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: *27-Aug-96*
COC No.: *4976*
Sample No.: *11885*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan #16E*
Project Location: *9608221050; 4 Walls @ 6' and Bottom @ 7'*
Sampled by: *GC* Date: *22-Aug-96* Time: *10:50*
Analyzed by: *HR* Date: *23-Aug-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	44.5	ug/kg	0.2	ug/kg
<i>Toluene</i>	544.3	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	184.4	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	3074.9	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	651.5	ug/kg	0.2	ug/kg
	TOTAL	4499.5	ug/kg	

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

Approved by: *Jag*
Date: *8/27/96*

McClanahan 16-E
Meridian Oil
Sec. 24, 28N, 10W

9-12-91

Landfarm: On location
Composite sample # 9609121335 6pt
soil vapor PID reading = 16.4 ppm

1.3	3.1	2.1
1.1	1.7	1.8

⊗

2'-12" depth
sand

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: *16-Sep-96*
 COC No.: *5040*
 Sample No. *12144*
 Job No. *2-1000*

Project Name: ***PNM Gas Services - McClanahan 16-E Landfarm***
 Project Location: ***9609121335; 6pt. Composite, 2"-12" depth***
 Sampled by: GC Date: *12-Sep-96* Time: *13:35*
 Analyzed by: HR Date: *14-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><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance ReportDRO 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>104</i>	<i>3.8</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>82</i>	<i>96</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: *9/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -