

Denny E. Fourn
P.O. Box 1980, Holm, NM
DEPUTY OIL & GAS INSPECTOR
District III
P.O. Drawer DD, Artesia, NM 88221
District III
1000 Rio Brazos Rd. Aztec, NM 87410
FEB 26 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Reuter #297

Location: Unit L Sec 15 T 26 N R 6 W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐ No ☐

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 55'

Direction from reference: 80 Degrees ☐ East ☒ North ☐ South ☒ West ☐

Depth to Ground Water:

| | | |
|-----------------------|-------------|----------|
| Less than 50 feet | (20 points) | |
| 50 feet to 99 feet | (10 points) | |
| Greater than 100 feet | (0 points) | <u>0</u> |

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

Wellhead Protection Area:

| | | |
|-----|-------------|----------|
| Yes | (20 points) | |
| No | (0 points) | <u>0</u> |

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

Distance to Surface Water:

| | | |
|-------------------------|-------------|----------|
| Less than 200 feet | (20 points) | |
| 200 feet to 1,000 feet | (10 points) | |
| Greater than 1,000 feet | (0 points) | <u>0</u> |

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

RANKING SCORE (TOTAL POINTS): 0

Reuter #297

Date Remediation Started: 8/8/97 **Date Completed:** 8/8/97

Remediation Method: Excavation X Approx. Cubic Yard 28
 (Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 28
 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 a pit size of 15' X 10' 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.

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 3' walls and 5' bottom.

Sample date 8/8/97 Sample time 12:00:00 PM

Sample Results

Benzene (ppm) < 0.0020

Total BTEX (ppm) 0.0360

Field headspace (ppm) _____

TPH (ppm) 12.00 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 October 27, 1997

SIGNATURE _____

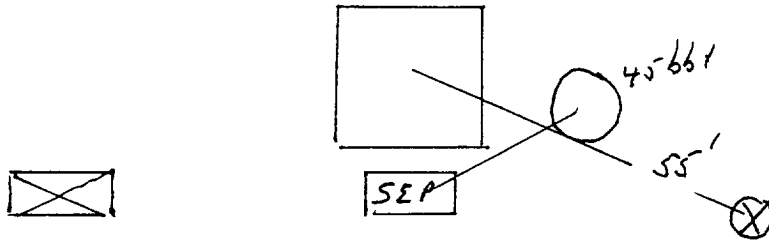


PRINTED NAME **Denver Bearden**
 AND TITLE **Administrator III**

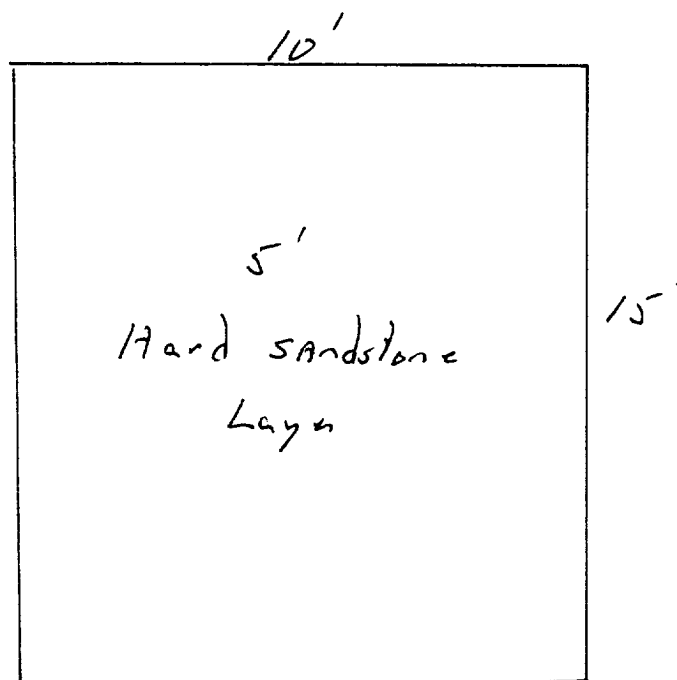
Renter #297
Caulkins Oil
Sec. 15, 26N, 6W, 4

8-8-97

start of excavation:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *21-Aug-97*
COC No.: *5951*
Sample No.: *15739*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Renter #297*
Project Location: *9708081200; Composite, 4 Walls @ 3' and Bottom @ 5'*
Sampled by: *GC* Date: *8-Aug-97* Time: *12:00*
Analyzed by: *HR/DC* Date: *20-Aug-97*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|--|---------------------|-----------------|-----------------------|-----------------|
| <i>Diesel Range Organics (C10 - C28)</i> | <i>12</i> | <i>mg/kg</i> | <i>5</i> | <i>mg/kg</i> |

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

| Parameter | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD | RPD Limit |
|---------------------------------|--------------|-----------------|------------|----------------|------------|------------|
| <i>Diesel Range (C10 - C28)</i> | <i>ND</i> | <i>ppm</i> | <i>200</i> | <i>201</i> | <i>0.6</i> | <i>15%</i> |

Matrix Spike

| Parameter | 1- Percent Recovered | 2 - Percent Recovered | Limit | RPD | RPD Limit |
|-------------------------------|----------------------|-----------------------|-----------------|----------|------------|
| <i>Diesel Range (C10-C28)</i> | <i>85</i> | <i>89</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:

Date:

[Signature]
6/21/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *15-Aug-97*
COC No.: *5951*
Sample No.: *15739*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Renter #297*
Project Location: *9708081200; Composite, 4 Walls @ 3' and Bottom @ 5'*
Sampled by: *GC* Date: *8-Aug-97* Time: *12:00*
Analyzed by: *DC* Date: *12-Aug-97*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|------------------------|--------------------|--------------------------|--------------------|
| <i>Benzene</i> | ND | ug/kg | 2 | ug/kg |
| <i>Toluene</i> | 3 | ug/kg | 2 | ug/kg |
| <i>Ethylbenzene</i> | 6 | ug/kg | 2 | ug/kg |
| <i>m,p-Xylene</i> | 21 | ug/kg | 2 | ug/kg |
| <i>o-Xylene</i> | 5 | ug/kg | 2 | ug/kg |
| | <i>TOTAL</i> | 36 | | ug/kg |

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *8/15/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

↑
N

Caulkins

Rio Carriba Co., N.M.

Landfarm field headspace - 0 ppm

520

45
DDL

Handwritten notes on a piece of paper:

x $0/1$ x x
 $0/1$ $0/1$ $0/1$
 $0/1$ $0/1$ $0/1$
 x x $0/1$
 x $0/1$ $0/1$

2" - 10"

①

WH

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *4-Sep-97*
COC No.: *5974*
Sample No.: *15991*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Renter #297 Landfarm*
Project Location: *9708280930; Composite Sample*
Sampled by: *RH* Date: *28-Aug-97* Time: *9:30*
Analyzed by: *DC/HR* Date: *3-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|--|---------------------|-----------------|-----------------------|-----------------|
| <i>Diesel Range Organics (C10 - C28)</i> | ND | mg/kg | 5 | mg/kg |

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

| Parameter | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD | RPD Limit |
|---------------------------------|--------------|-----------------|------------|----------------|-----|-----------|
| <i>Diesel Range (C10 - C28)</i> | ND | ppm | 200 | 204 | 2.0 | 15% |

Matrix Spike

| Parameter | 1- Percent Recovered | 2 - Percent Recovered | Limit | RPD | RPD Limit |
|-------------------------------|----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 71 | 74 | (70-130) | 3 | 20% |

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

Approved by: *[Signature]*

Date: *9/4/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *2-Sep-97*
COC No.: *5974*
Sample No.: *15991*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Renter #297 Landfarm*
Project Location: *9708280930; Composite Sample*
Sampled by: *RH* Date: *28-Aug-97* Time: *9:30*
Analyzed by: *HR* Date: *1-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|------------------------|--------------------|--------------------------|--------------------|
| <i>Benzene</i> | ND | ug/kg | 1 | ug/kg |
| <i>Toluene</i> | ND | ug/kg | 1 | ug/kg |
| <i>Ethylbenzene</i> | ND | ug/kg | 1 | ug/kg |
| <i>m,p-Xylene</i> | 2 | ug/kg | 1 | ug/kg |
| <i>o-Xylene</i> | ND | ug/kg | 1 | ug/kg |
| | <i>TOTAL</i> | 2 | | ug/kg |

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *9/2/97*