

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

PIT REMEDIATION AND CLOSURE REPORT

| | | | |
|--|--|--|---|
| Operator: PNM Gas Services (SRC) | | Telephone: 324-3764 | |
| Address: 603 W. Elm Street Farmington, NM 87401 | | | |
| Facility or Well Name: Cain Com #12 | | | |
| Location: | Unit: A | Sec. 16 | T. 28 N R. 10 W County San Juan |
| Pit Type: | Separator <input type="checkbox"/> | Dehydrator <input checked="" type="checkbox"/> | Other <input type="checkbox"/> |
| Land Type: | BLM <input checked="" type="checkbox"/> | State <input type="checkbox"/> | Fee <input type="checkbox"/> Other <input type="checkbox"/> |
| Pit Location: | Pit dimensions: length 15 width 15 depth 3 | | |
| (Attach diagram) | Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/> | | |
| | Footage from reference: 88' | | |
| | Direction from reference: 65 Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> North <input checked="" type="checkbox"/> of <input type="checkbox"/> West <input type="checkbox"/> South <input type="checkbox"/> | | |
| Depth to Ground Water: | Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) | | 0 |
| (Vertical distance from contaminants to seasonal high water elevation of ground water) | | | |
| Wellhead Protection Area: | Yes (20 points) No (0 points) | | 0 |
| (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) | | 0 |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | | | |
| RANKING SCORE (TOTAL POINTS): | | | 0 |

Date Remediation Started: 9/6/96 **Date Completed:** 9/10/96

Remediation Method: Excavation X **Approx. Cubic Yard** 235

(Check all appropriate sections) Landfarmed X **Amount Landfarmed (cubic yds)** 235

Other _____

Remediation Location: Onsite X **Offsite** Cain #23 16-28N-10W

(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 44'x18'x8' 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 8'

Sample date 9/6/96 **Sample time** 2:30:00 PM

Sample Results

Benzene (ppm) < 0.0002

Total BTEX (ppm) 0.1550

Field headspace (ppm) _____

TPH < 5.0 **Method** 8015A

Vertical Extent (ft) _____ **Risk Assessment form attached** Yes _____ No ✓

Ground Water Sample: Yes _____ No ✓ (If yes, attach sample results)

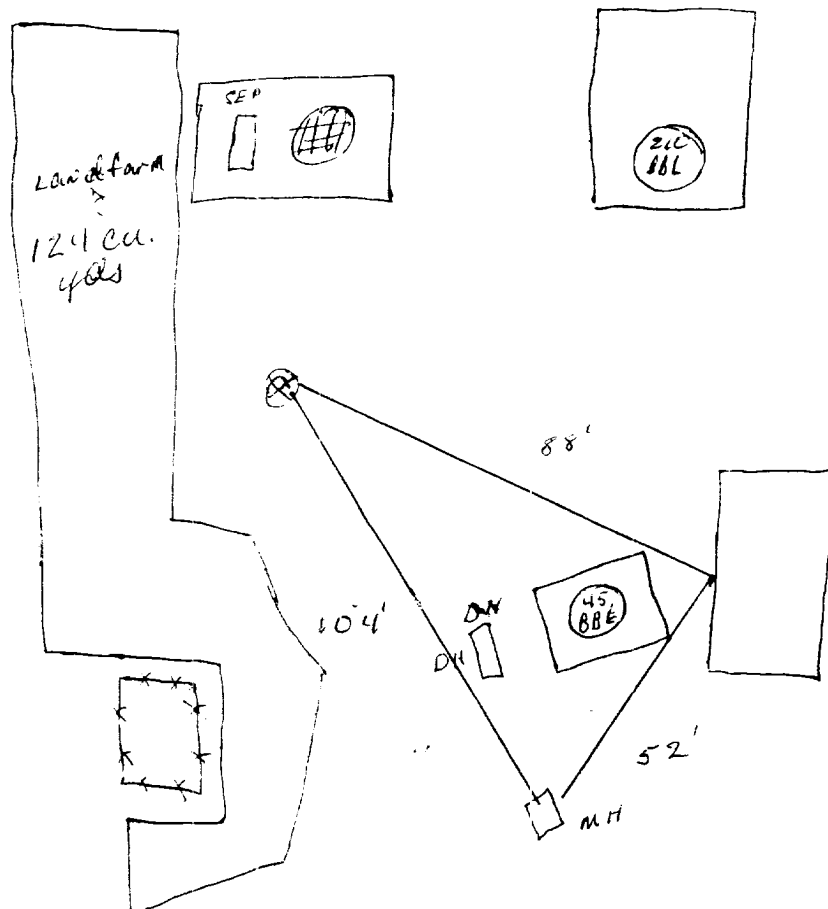
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE January 22, 1997

SIGNATURE Denver Bearden

PRINTED NAME AND TITLE Denver Bearden
Administrator III

↑
N

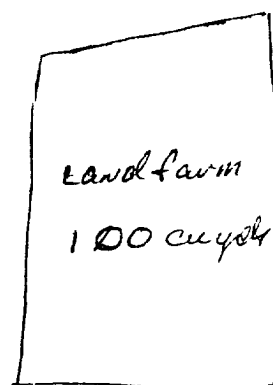


Coin #23 - Meridian
NE/NE (A) 16-28N-10W

↑
N

NH

45
BBL



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.: 4748
 Sample No. 12051
 Job No. 2-1000

Project Name: **PNM Gas Sevices - Cain Com #12**
 Project Location: **9609061430; Pit Excavation Composite Sample**
 Sampled by: RH Date: 6-Sep-96 Time: 14:30
 Analyzed by: DC Date: 10-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> | <5.0 | mg/kg | 5.0 | mg/kg |

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> | <5.0 | ppm | 100 | 114 | 14.0 | 15% |

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> | 98 | 114 | (70-130) | 11 | 20% |

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

Approved by: *DC*
 Date: *9/10/96*

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: 10-Sep-96
COC No.: 4748
Sample No.: 12051
Job No.: 2-1000

Project Name: **PNM Gas Services - Cain Com #12**
Project Location: **9609061430; Pit Excavation Composite Sample**
Sampled by: RH Date: 6-Sep-96 Time: 14:30
Analyzed by: DC Date: 9-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 | 5.5 | ug/kg | 0.2 | ug/kg |
| Ethylbenzene | 11.8 | ug/kg | 0.2 | ug/kg |
| m,p-Xylene | 109.1 | ug/kg | 0.2 | ug/kg |
| o-Xylene | 28.5 | ug/kg | 0.2 | ug/kg |
| TOTAL | | 155.0 | | ug/kg |

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

Approved by: *JCG*
Date: *9/10/96*

Cain Com # 12

10-23-96

Meridian Oil

Sec. 16, 28N, 10W

LandFarmed: On location

Composite sample # 9610230850

(6pt comp.)

Soil vapor headspace PID reading: 6.1 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: *25-Oct-96*
 COC No.: *5093*
 Sample No. *12683*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Cain Com #12 Landfarm*
 Project Location: *9610230850; 6pt. Composite, 2"-12" depth*
 Sampled by: *GC* Date: *23-Oct-96* Time: *8:50*
 Analyzed by: *DC/HR* Date: *25-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>< 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>< 5.0</i> | <i>ppm</i> | <i>100</i> | <i>99</i> | <i>1.0</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>114</i> | <i>104</i> | <i>(70-130)</i> | <i>6</i> | <i>20%</i> |

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

Approved by: 
 Date: *10/25/96*