

District I  
P.O. Box 1980, Santa Fe, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

*Henry E. Faust*  
DEPUTY OIL & GAS INSPECTOR

OCT 28 1997

**PIT REMEDIATION AND CLOSURE REPORT**

*Approved*

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

Address: 503 W. Elm Street Farmington, NM 87401

Facility or Well Name: NCRA #1

Location: Unit D Sec 22 T 26 N R 7 W County Rio Arriba

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: 120'

Direction from reference: 5 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>10</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)

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**DIST. 3**

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

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>0</u>

**RANKING SCORE (TOTAL POINTS):** 10

NCRA #1

Date Remediation Started: 6/9/97

Date Completed: 6/9/97

Remediation Method: Excavation ☒ Approx. Cubic Yard 276

(Check all appropriate sections)

Landfarmed ☒ Amount Landfarmed (cubic yds) 276

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 pit size of 23' x 18' x 18' 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 15' and 18'

Sample date 6/9/97

Sample time 1:00:00 PM

## Sample Results

Benzene (ppm) 0.0010

Total BTEX (ppm) 0.3090

Field headspace (ppm)

TPH 0.00 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 July 28, 1997

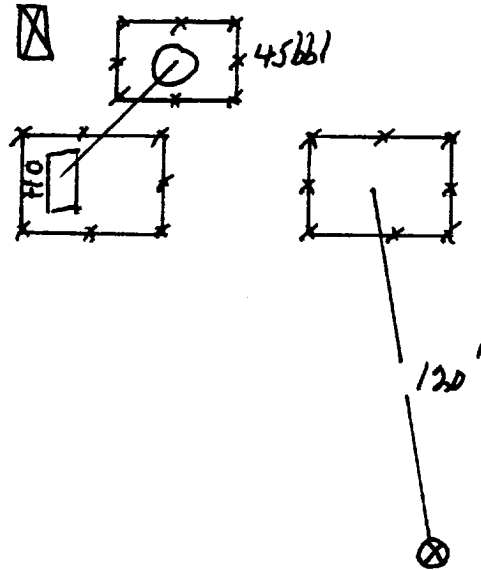
SIGNATURE

PRINTED NAME  
AND TITLEDenver Bearden  
Administrator III

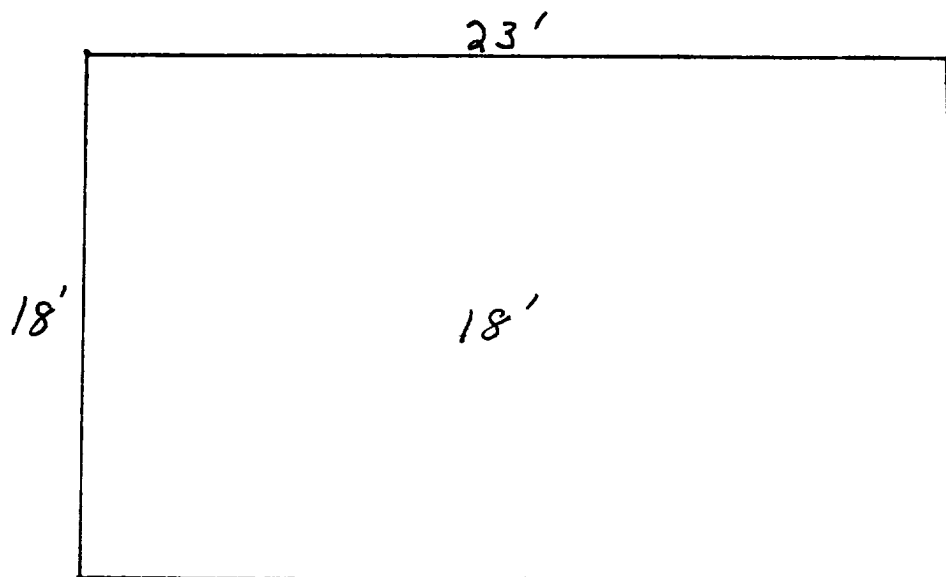
NCRA #1  
Chateau Oil & Gas  
Sec. 22, 26 N, 7 W, D

6-9-97

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: *11-Jun-97*  
COC No.: *5882*  
Sample No.: *14890*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - NCRA #1*  
Project Location: *9706091300; 4 Walls @ 15' & Bottom @ 18'*  
Sampled by: *GC* Date: *9-Jun-97* Time: *13:00*  
Analyzed by: *DC/HR* Date: *11-Jun-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	178	11.7	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	88	90	(70-130)	3	20%

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

Approved by: *DC*

Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Attn: *Denver Bearden*  
Company: *PNM Gas Services*  
Address: *503 W. Elm*  
City, State: *Farmington, NM 87401*

Date: *11-Jun-97*  
COC No.: *5882*  
Sample No.: *14890*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - NCRA #1*  
Project Location: *9706091300; 4 Walls @ 15' & Bottom @ 18'*  
Sampled by: *GC* Date: *9-Jun-97* Time: *13:00*  
Analyzed by: *HR* Date: *10-Jun-97*  
Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	1	ug/kg	1	ug/kg
<i>Toluene</i>	27	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	18	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	255	ug/kg	1	ug/kg
<i>o-Xylene</i>	8	ug/kg	1	ug/kg
	<i>TOTAL</i>	309	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: *6/11/97*

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↑  
N

See attached lab results for BTEX.

0 ppm x @ 10"	0 ppm x @ 10"	5 ppm @ 10" x
0 ppm @ 10" x	0 ppm @ 10" x	x 0 ppm @ 10"
@ 0 ppm 10" x	0 ppm @ 10" x	x 10 ppm @ 10"
		6 ppm @ 10" x

NORA #1

Q-3E-97

@ 1100

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: *8-Jul-97*  
COC No.: *5182*  
Sample No.: *15149*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - NCRA #1 Landfarm*

Project Location: *9706301100; 10pt. Composite*

Sampled by: *RH* Date: *30-Jun-97* Time: *11:00*

Analyzed by: *DC/HR* Date: *7-Jul-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>407</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>190</i>	<i>5.1</i>	<i>15%</i>

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>84</i>	<i>89</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *7/8/97*

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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: *3-Jul-97*  
COC No.: *5182*  
Sample No.: *15149*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - NCRA #1 Landfarm*

Project Location: *9706301100; 10pt. Composite*

Sampled by: *RH* Date: *30-Jun-97* Time: *11:00*

Analyzed by: *DC* Date: *1-Jul-97*

Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	3	ug/kg	2	ug/kg
<i>Toluene</i>	10	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	8	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	134	ug/kg	2	ug/kg
<i>o-Xylene</i>	38	ug/kg	2	ug/kg
	<i>TOTAL</i>	194		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_