

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

FEB 26 1998

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

*Approved*

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (*Chateau*) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: *Huron 4 E mm*  
Location: Unit: *A* Sec. *2* T. *24* N R. *4* W County *Rio Arriba*  
Pit Type: Separator *X* Dehydrator \_\_\_\_\_ Other \_\_\_\_\_  
Land Type: *Jicarilla Apache*

Pit Location: Pit dimensions: length *30'* width *20'* depth *4'*  
(Attach diagram) Reference: wellhead \_\_\_\_\_ other *Meter House*  
Footage from reference: *30'*  
Direction from reference: *Straight* Degrees \_\_\_\_\_ East \_\_\_\_\_ North \_\_\_\_\_  
of \_\_\_\_\_  
*X* 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)

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)

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)

Distance to Ephemeral Stream (dry wash):

(Horizontal distance to all downgradient streams having a width of at least 10 feet)

Less than or equal to 100 feet (10 points)  
Greater than 100 feet (0 points)

Distance to Nearest Lake, Playa, or Watering Pond:

(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)

Less than or equal to 100 feet (10 points)  
Greater than 100 feet (0 points)

RANKING SCORE (TOTAL POINTS):

Date Remediation Started:

7/22/97

Date Completed:

9/17/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

89

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

89

Other \_\_\_\_\_

Remediation Location:

Onsite

X

Offsite \_\_\_\_\_

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

General Description of Remedial Action:

Removed contaminated soil from all four side walls as to get a below 100 ppm head space pending. Bottom is rock.

Ground Water Encountered:

No

X

Yes

Depth \_\_\_\_\_

Final Pit Closure Sampling:

Sample Location

North, East, South, and West side walls.

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

Sample depth

4'

Sample date

7/22/97

Sample time

1:54E

Sample Results

Soil: Benzene (ppm)

0.003

Water: Benzene (ppb)

Total BTEX (ppm)

0.019

Toluene (ppb)

Field headspace (ppm)

27.0

Ethylbenzene (ppb)

TPH

ND

ppm

Method

8015

Total Xylenes (ppb)

Ground Water Sample:

Yes

No

X

(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

8/5/97

PRINTED NAME

Ronald A. Dedrick

SIGNATURE

Ronald A. Dedrick

AND TITLE

Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES

X

NO

(REASON):

SPRAY + CLOSE

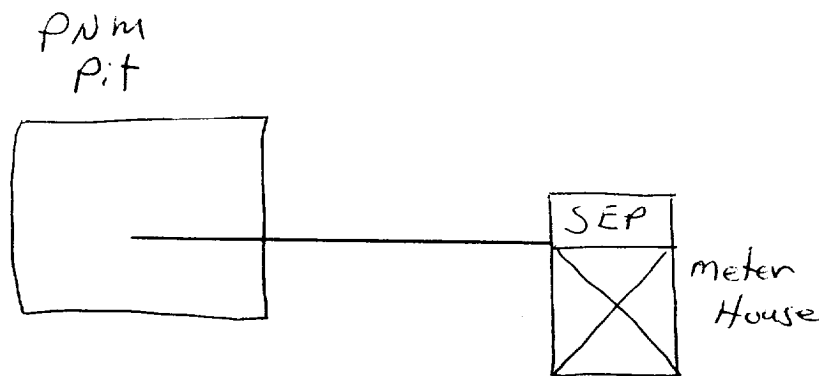
SIGNED:

Keith M. ...

DATE:

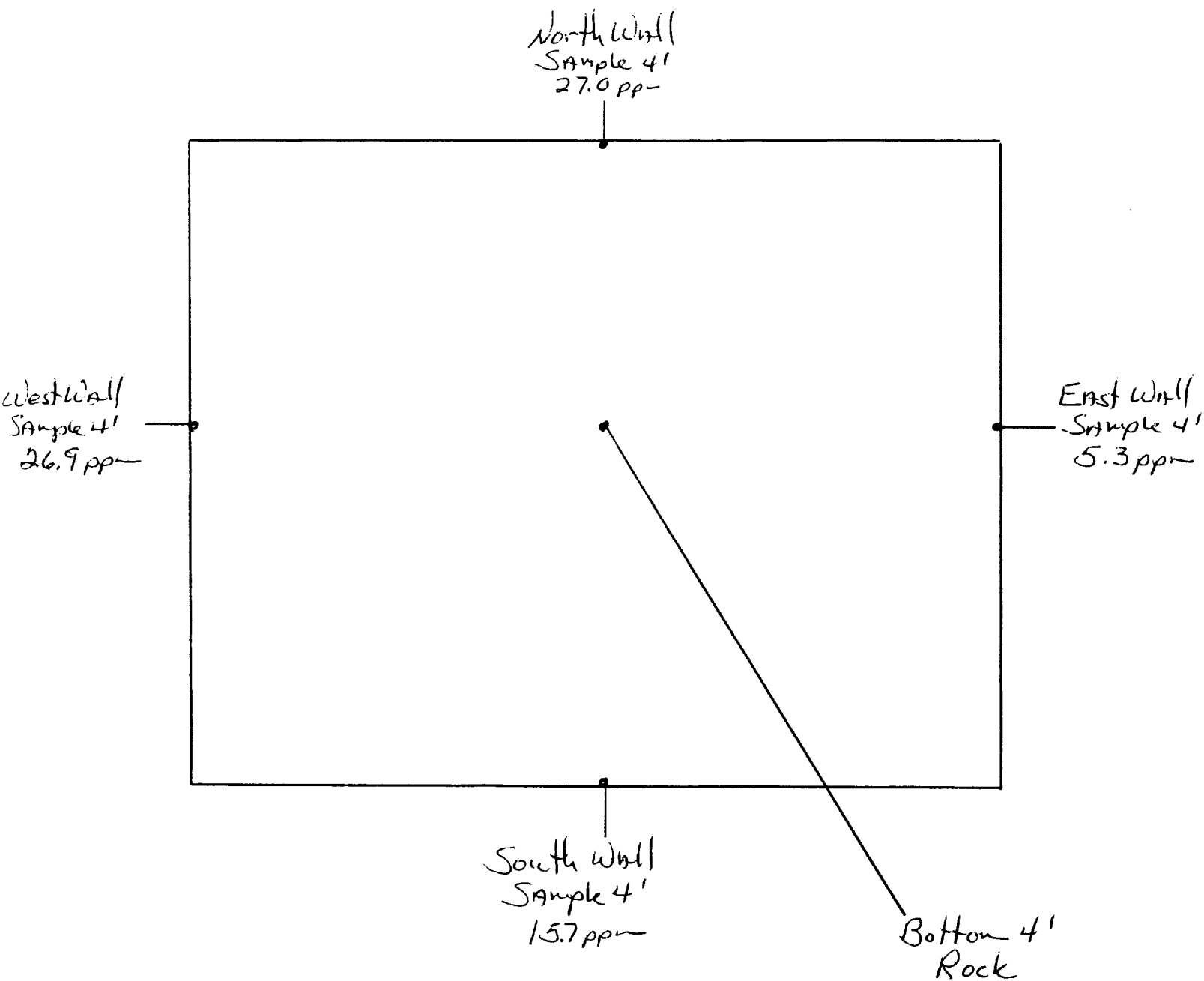
8-12-97

Huron 4-E MM  
Sec. 2 T26N R4W Unit A  
Chateau



Huron 4-E mm  
Sec. 2 T26N R4W Unit A  
Chateau

30'x20'x4'



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: *31-Jul-97*  
COC No.: *5520*  
Sample No.: *15475*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Huron 4E MM*  
Project Location: *9707221548; 4pt. Composite*  
Sampled by: *PA* Date: *22-Jul-97* Time: *15:48*  
Analyzed by: *HR/DC* Date: *31-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>	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	192	4.3	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	86	88	(70-130)	3	20%

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

Approved by: *[Signature]*  
Date: *7/31/97*

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: *31-Jul-97*  
COC No.: *5520*  
Sample No.: *15475*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Huron 4E MM*

Project Location: *9707221548; 4pt. Composite*

Sampled by: *PA* Date: *22-Jul-97* Time: *15:48*

Analyzed by: *HR* Date: *30-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	1	ug/kg
<i>Toluene</i>	4	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	2	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	7	ug/kg	1	ug/kg
<i>o-Xylene</i>	2	ug/kg	1	ug/kg
	<i>TOTAL</i>	19		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: *7/31/97*

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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Chateau) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Hiron 4 E mm  
Location: Unit: A Sec. 2 T. 24 N R. 4 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 7/22/97 Date Completed: 8/11/97  
Remediation Method: Landfarmed ☒ Approx. cubic yards 89  
Composted ☐  
Other ☐

Depth to Ground Water: (pts.) 0  
Distance to an Ephemeral Stream: (pts.) 0  
Distance to Nearest Lake, Playa,  
or Watering Pond: (pts.) 0  
Wellhead Protection Area: (pts.) 0  
Distance to Surface Water: (pts.) 0  
Ranking Score (Total Points): 0

Final Closure Sampling:

Sampling Date: 8/7/97 Time 1028  
Sampling Results:  
Field Headspace (ppm) 15.3  
TPH (ppm) 32 Method 8015  
Other

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

DATE 8/15/97 PRINTED NAME Ronald A. Dedrick  
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE  
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

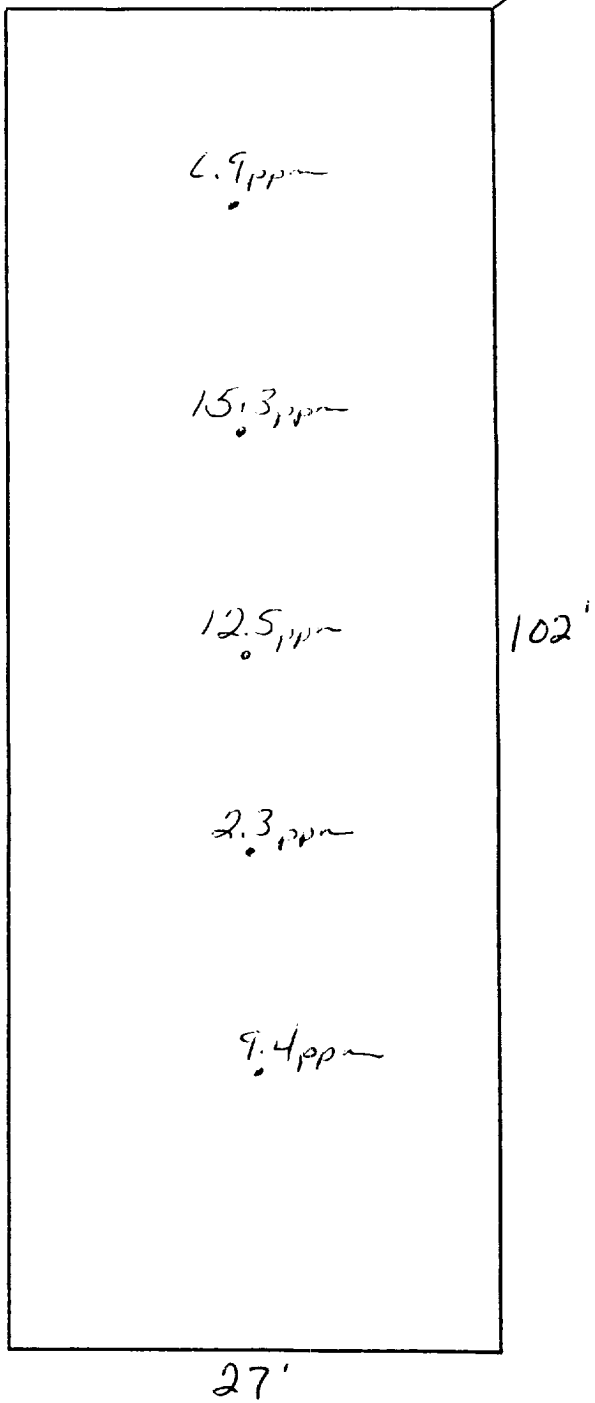
APPROVED: YES ☐ NO ☐ (REASON)

SIGNED: DATE:

Huron 4-E MM  
Sec. 2 T26N R4W Unit A  
Chateau

Land farm

⊗ Well  
head





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: *13-Aug-97*  
COC No.: *5543*  
Sample No.: *15703*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Huron 4E-MM Landfarm*  
Project Location: *9708071028; 5pt. Composite*  
Sampled by: *SA* Date: *7-Aug-97* Time: *10:28*  
Analyzed by: *HR/DC* Date: *11-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>32</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>215</i>	<i>7.4</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>85</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: *[Signature]*  
Date: *8/13/97*

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