

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  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   
 West of South

<b>Depth to Ground Water:</b> (Vertical distance from contaminants to seasonal high water elevation of ground water)	RECEIVED NOV - 3 1997 OIL CON. DIV. DIST. 3	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<input checked="" type="checkbox"/>
<b>Wellhead Protection Area:</b> (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)	<input checked="" type="checkbox"/>
<b>Distance to Surface Water:</b> (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)	<input checked="" type="checkbox"/>
<b>Distance to Ephemeral Stream (dry wash):</b> (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)	<input checked="" type="checkbox"/>
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (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)	<input checked="" type="checkbox"/>
<b>RANKING SCORE (TOTAL POINTS):</b>			<input checked="" type="checkbox"/>

Date Remediation Started: 7/22/97 Date Completed: 9/17/97

Remediation Method: Excavation  Approx. Cubic Yards 89

(Check all appropriate sections) Landfarmed  Amount Landfarmed (cubic yds): 89

Other \_\_\_\_\_

Remediation Location: Onsite  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  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  (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

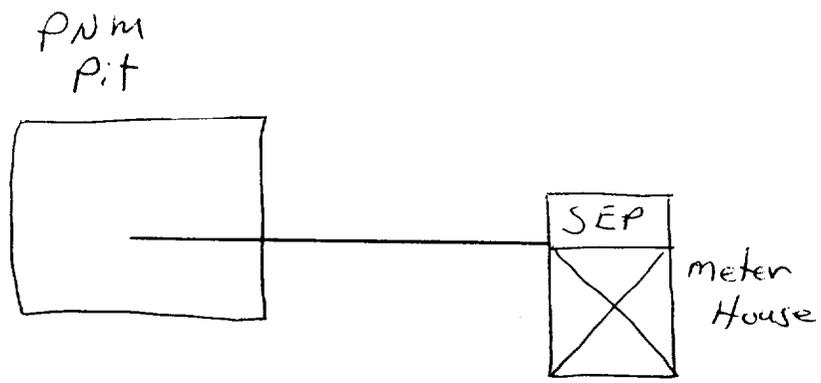
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

APPROVED: YES  NO \_\_\_\_\_ (REASON): SPRAY + CLOSE

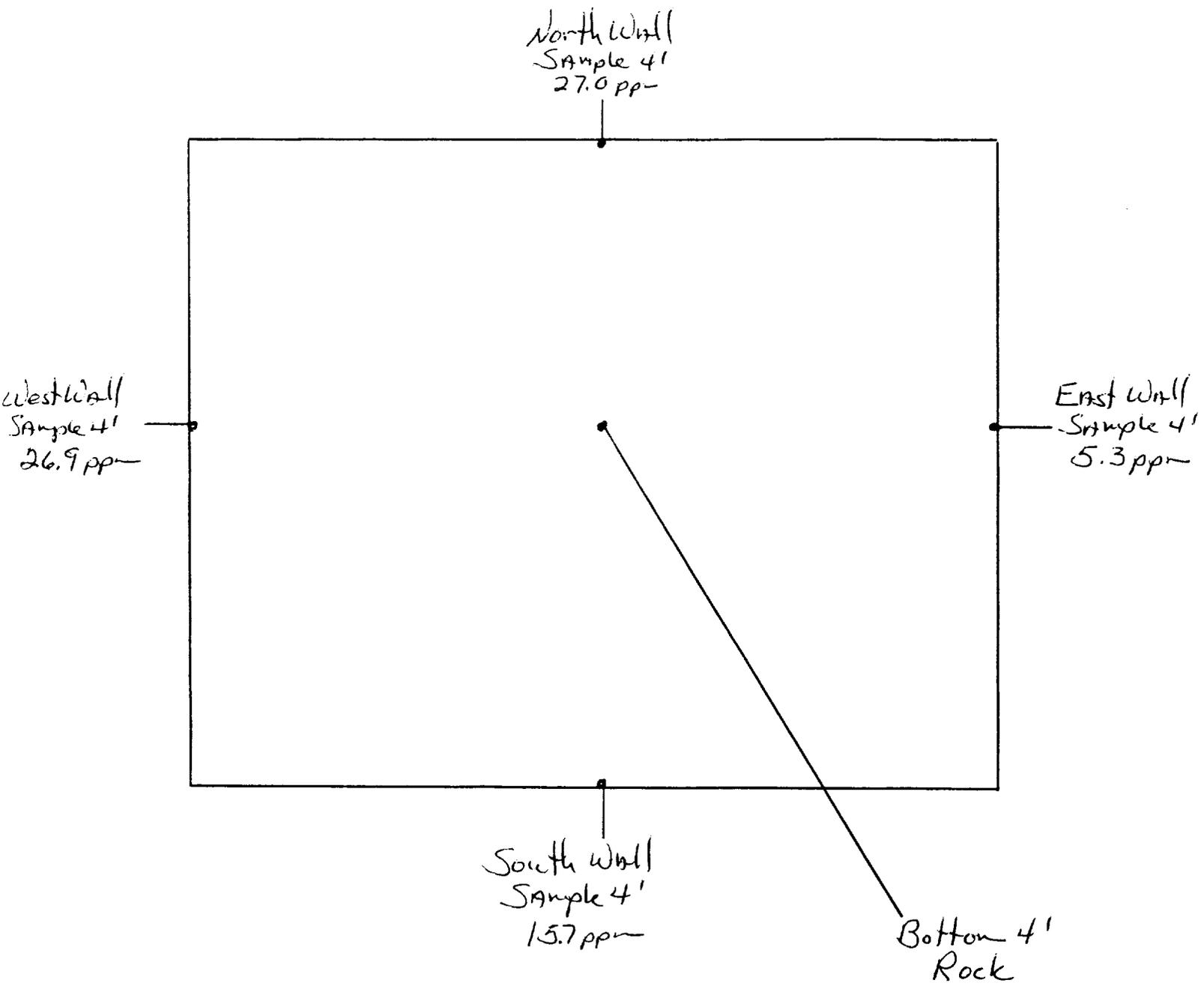
SIGNED: [Signature] DATE: 8-12-97

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 -

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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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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: Huron 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.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>8/7/97</u> Time <u>1028</u> Sampling Results: Field Headspace (ppm) <u>15.3</u> TPH (ppm) <u>32</u> Method <u>SC15</u> Other _____
Distance to an Ephemeral Stream: (pts.) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance to Surface Water: (pts.) <u>0</u>	
Ranking Score (Total Points): <u>0</u>	

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

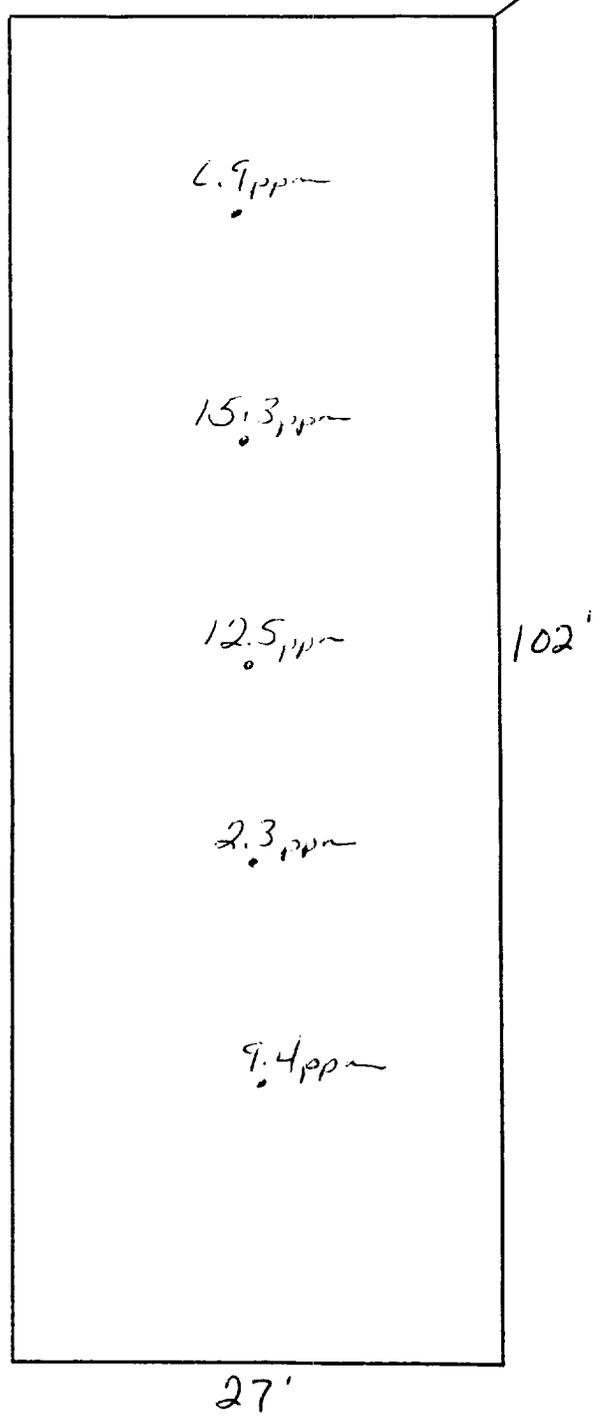
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES \_\_\_\_\_ NO \_\_\_\_\_ (REASON) \_\_\_\_\_  
SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

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

Land farm

Well  
head



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**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>	32	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	215	7.4	15%

**Matrix Spike**

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	84	85	(70-130)	1	20%

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

Approved by: *[Signature]*  
 Date: *8/13/97*

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