

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

# PIT REMEDIATION AND CLOSURE REPORT

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

Date Remediation Started: 10/2/97 Date Completed: 11/20/97

Remediation Method: Excavation X Approx. Cubic Yards 254

(Check all appropriate sections)

Landfarmed 1 Amount Landfarmed (cubic yds): 254

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 reading.  
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 11'

Sample date 10/2/97 Sample time 1007

**Sample Results**

Soil: Benzene (ppm) ND Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.002 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 7.2 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 10/10/97

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

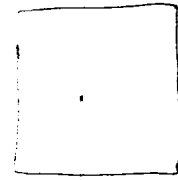
SIGNED: Kerr C. Mann

DATE: 10-14-97

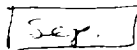
Axi Apache N-16A  
Sec. 12 T25N R4W Unit C  
Conoco



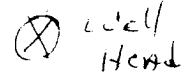
meter  
House



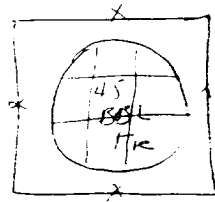
PNM  
Pit



105'

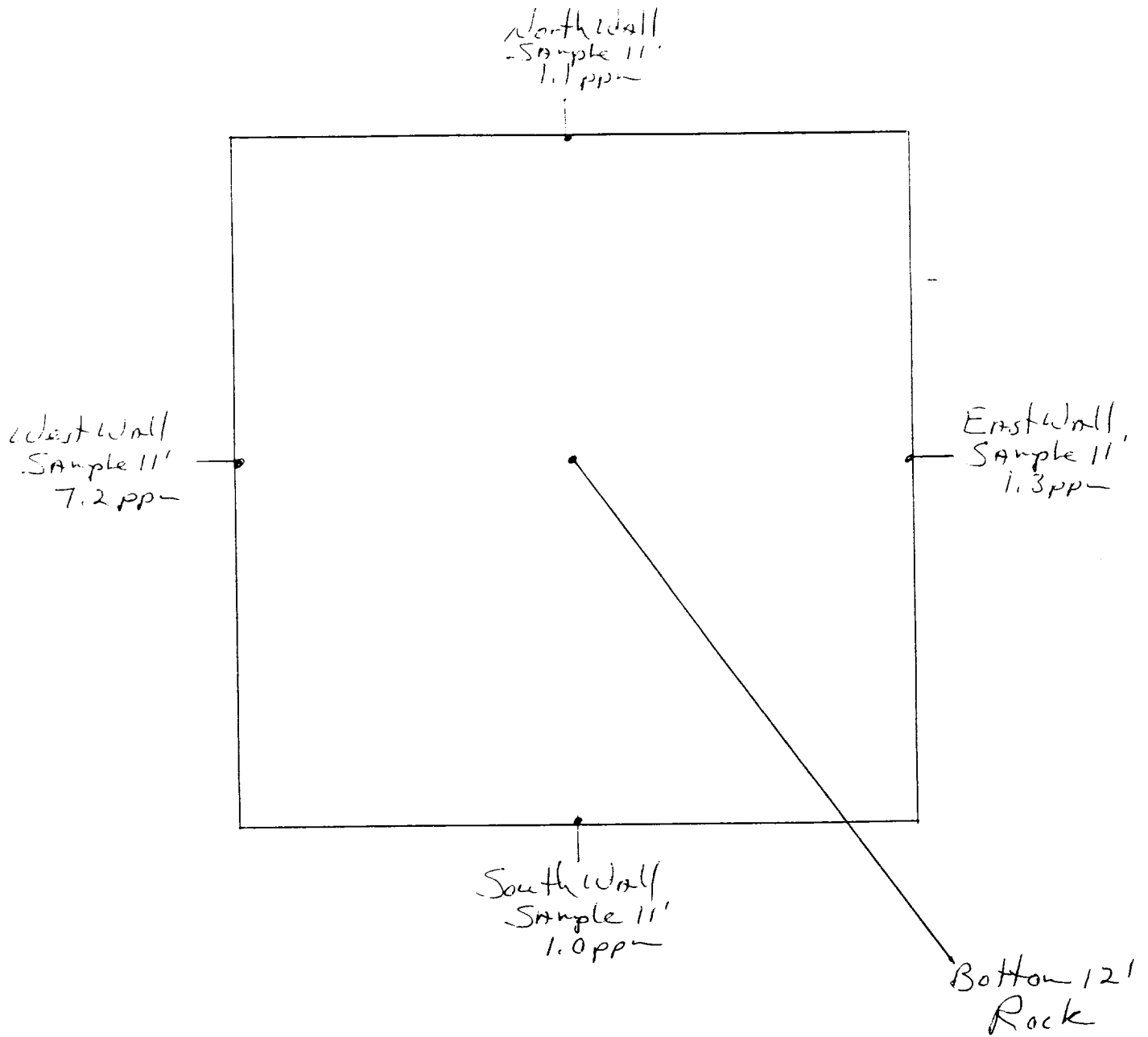


Well  
Head



Axi Apache N-16A  
Sec. 12 T25N R4W Unit C  
Conoco

26' x 22' x 12'



5' Sample - 419 ppm  
10' Sample - 208 ppm

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-Oct-97*  
COC No.: *5614*  
Sample No.: *16499*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache N-16A*

Project Location: *9710021007; 4pt. Composite*

Sampled by: *PA* Date: *2-Oct-97* Time: *10:07*

Analyzed by: *DC/HR* Date: *3-Oct-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.: 0555-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	212	6.0	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	99	(70-130)	14	20%

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

Approved by: *[Signature]*

Date: *10/8/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *6-Oct-97*  
COC No.: *5614*  
Sample No.: *16499*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache N-16A*

Project Location: *9710021007; 4pt. Composite*

Sampled by: *PA* Date: *2-Oct-97* Time: *10:07*

Analyzed by: *DC* Date: *3-Oct-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>	2	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	2	ug/kg
<i>o-Xylene</i>	ND	ug/kg	2	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: *DAF*  
Date: *10/6/97*

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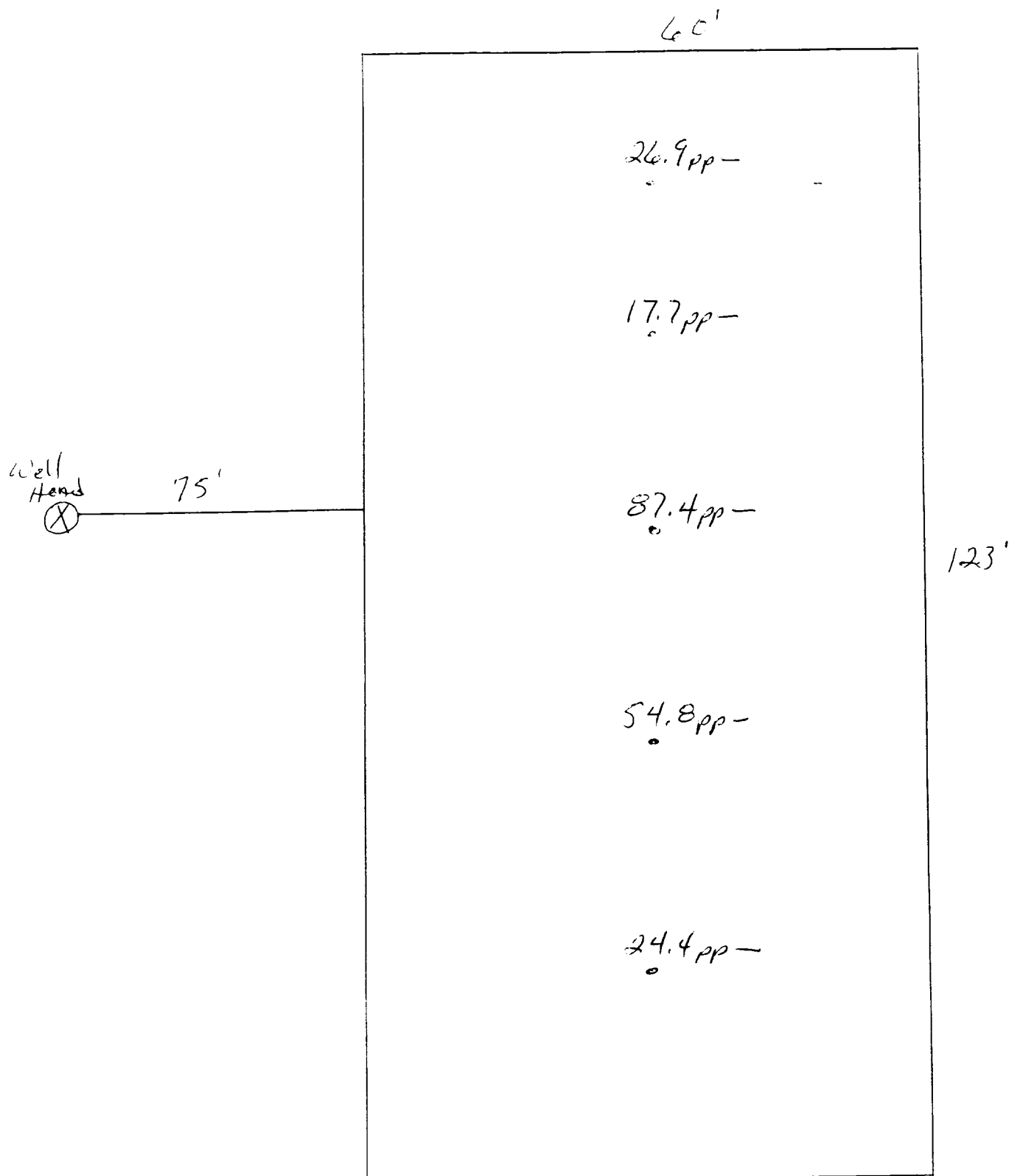
JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> <u>PNM Gas Services (Conoco)</u> <b>Telephone:</b> <u>324-3764</u>	
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>	
<b>Facility or Well Name:</b> <u>Axi Apache N-16A</u>	
<b>Location:</b> Unit: <u>C</u> Sec. <u>12</u> T. <u>25</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
<b>Land Type:</b> <u>Jicarilla Apache</u>	
<b>Date Remediation Started:</b> <u>10/2/97</u> <b>Date Completed:</b> <u>11/4/97</u>	
<b>Remediation Method:</b> Landfirmed <u>X</u> Approx. cubic yards <u>2.54</u> Composted <u>    </u> Other <u>    </u>	
<b>Depth to Ground Water:</b> (pts.) <u>2</u> <b>Distance to an Ephemeral Stream:</b> (pts.) <u>2</u> <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>2</u> <b>Wellhead Protection Area:</b> (pts.) <u>2</u> <b>Distance to Surface Water:</b> (pts.) <u>10</u> <b>Ranking Score (Total Points):</b> <u>10</u>	<b>Final Closure Sampling:</b> <b>Sampling Date:</b> <u>11/4/97</u> <b>Time</b> <u>1131</u> <b>Sampling Results:</b> <b>Field Headspace</b> (ppm) <u>37.4</u> <b>TPH</b> (ppm) <u>154</u> <b>Method</b> <u>GC/MS</u> <b>Other</b> <u>    </u>
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p><b>DATE</b> <u>11/10/97</u> <b>PRINTED NAME</b> <u>Ronald A. Dedrick</u></p> <p><b>SIGNATURE</b> <u>Ronald A. Dedrick</u> <b>AND TITLE</b> <u>Environmental Technician II</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p> <p><b>APPROVED:</b> YES <u>X</u> NO <u>    </u> (REASON) <u>    </u></p> <p><b>SIGNED:</b> <u>Kate C. Mann</u> <b>DATE:</b> <u>11-12-97</u></p>	

Hx1 Apache N-16A  
Sec 12 T25N R4W Unit C  
Conoco





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: *7-Nov-97*  
COC No.: *5629*  
Sample No.: *16761*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache N-16A Landfarm*  
Project Location: *9711041131; 5pt. Composite*  
Sampled by: *RB* Date: *4-Nov-97* Time: *11:31*  
Analyzed by: *DC/HR* Date: *6-Nov-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>154</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.: 0555-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>181</i>	<i>9.7</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>72</i>	<i>72</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: *JAC*  
Date: *11/7/97*

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