

## 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

## PIT REMEDIATION AND CLOSURE REPORT

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

**Address:** 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache m-6A Drip

Location: Unit: P Sec. 14 T. 25 N R. 4 W County Rio Arriba

Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other Line Drip

**Land Type:** Jicarilla Apache

Pit Location: Pit dimensions: length 21' width 18' depth 13'

(Attach diagram) Reference: wellhead \_\_\_\_\_ other Drip Riser

Footage from reference: 21'

Direction from reference: Straight Degrees      East of North X  
     West of 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):** 10

Date Remediation Started: 10/8/97 Date Completed: 11/20/97

Remediation Method: Excavation X Approx. Cubic Yards 182

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 182

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Apache M-GA location  
(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 100ppm 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 12'

Sample date 10/9/97 Sample time 0831

**Sample Results**

Soil: Benzene (ppm) 0.002 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.160 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 97.9 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 10/11/97 PRINTED NAME Ronald A. Dedrick

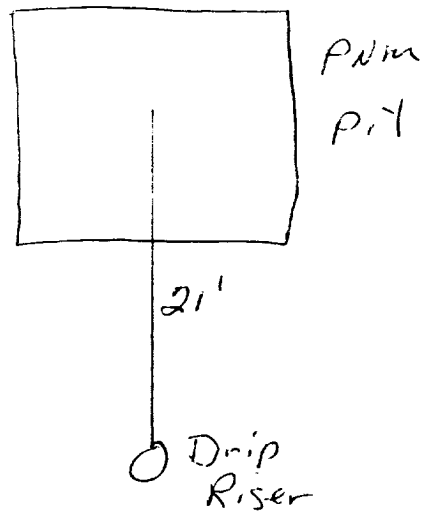
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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: Kenneth M. ... DATE: 10-14-97

17x11 Apache M-611 Drip  
Sec 14 T2S N R 4W Unif P  
WFS



Hxihpache M-6A Drip  
Sec. 14 T25N R4W Unit P  
WFS

21' X 18' X 13'

North Wall  
Sample 12'  
9.7 ppm

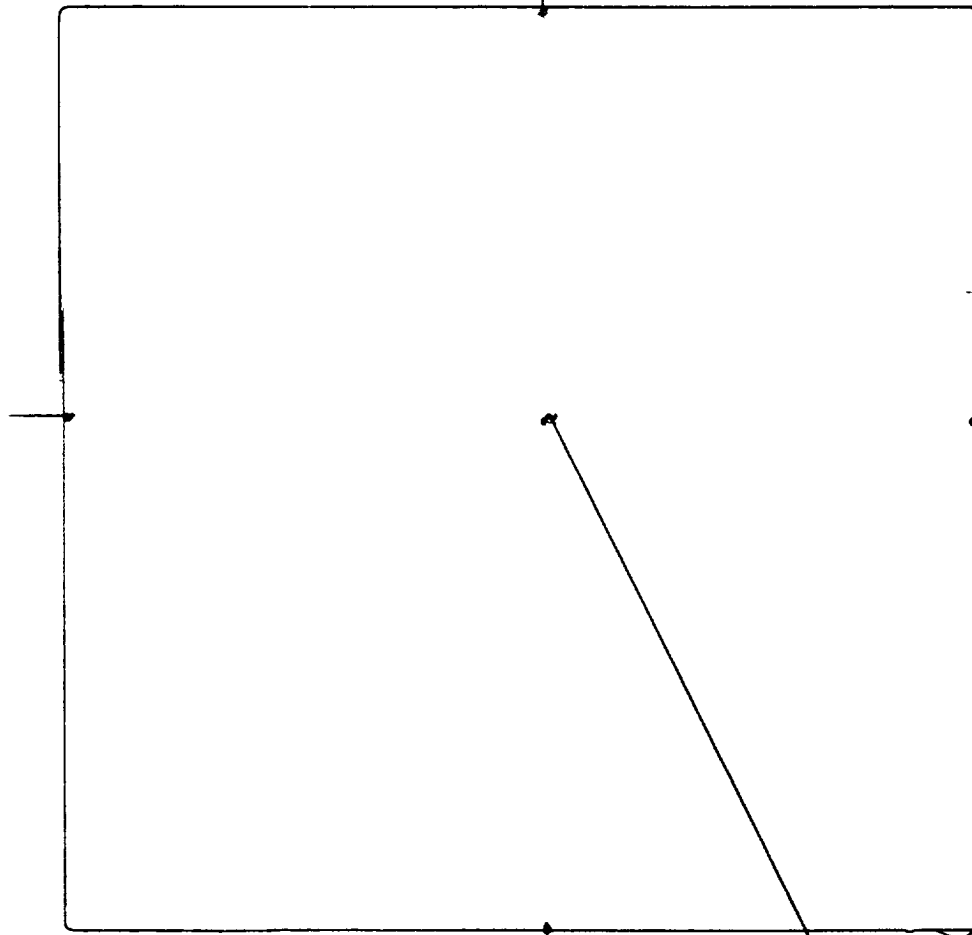
West Wall  
Sample 12'  
15.1 ppm

East Wall  
Sample 12'  
46.0 ppm

South Wall  
Sample 12'  
97.9 ppm

Bottom 13'  
Rock

5' Sample - 880 ppm  
10' Sample - 543 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: *10-Oct-97*  
COC No.: *5618*  
Sample No.: *16546*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache M-6A Drip*  
Project Location: *9710090831; 4pt. Composite*  
Sampled by: *SA* Date: *9-Oct-97* Time: *8:31*  
Analyzed by: *DC/HR* Date: *9-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	202	1.0	15%

### *Matrix Spike*

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	103	104	(70-130)	1	20%

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

Approved by: *[Signature]*

Date: *10/10/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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## ANALYTICAL REPORT

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Sampled by: *SA* Date: *9-Oct-97* Time: *8:31*

Analyzed by: *DC* Date: *10-Oct-97*

Sample Matrix: *Soil*

### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>2</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>35</i>	<i>ug/kg</i>	<i>5</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>5</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>94</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>23</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>160</i>	<i>ug/kg</i>		

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*  
Date: *10/10/97*

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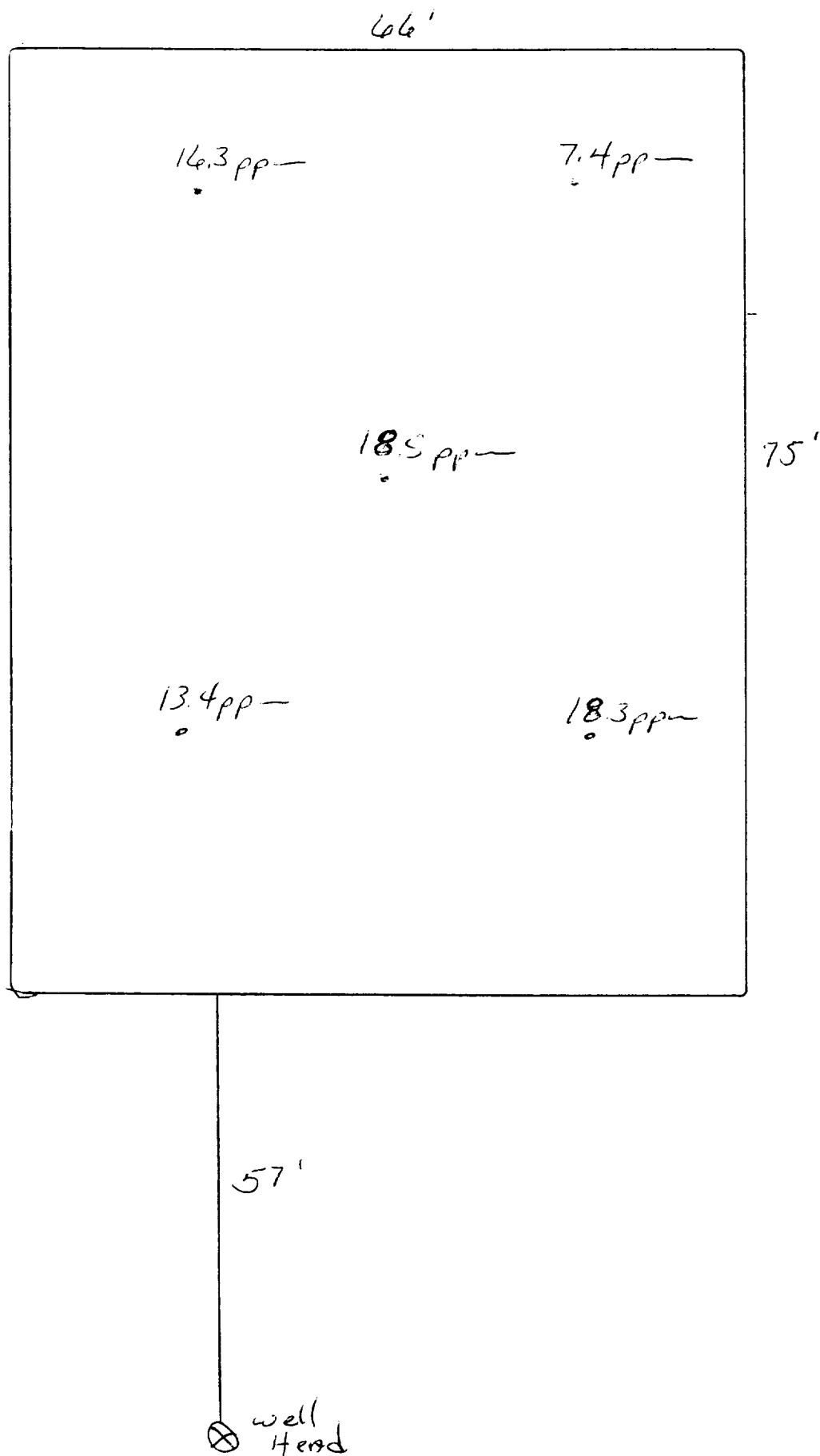
ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services ( <u>WFS</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 m-6A Drip</u>	
<b>Location:</b>	<b>Unit:</b> <u>P</u> <b>Sec.</b> <u>14</u> <b>T.</b> <u>25</u> <b>N</b> <b>R.</b> <u>4</u> <b>W</b> <b>County</b> <u>Rio Arriba</u>
<b>Land Type:</b> <u>Jicarilla Apache</u>	
<b>Date Remediation Started:</b> <u>10/8/97</u> <b>Date Completed:</b> <u>11/6/97</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> <b>Approx. cubic yards</b> <u>182</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Depth to Ground Water:</b> (pts.) <u>0</u> <b>Distance to an Ephemeral Stream:</b> (pts.) <u>0</u> <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>0</u> <b>Wellhead Protection Area:</b> (pts.) <u>0</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>1249</u> <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> <u>18.5</u> <b>TPH (ppm)</b> <u>ND</u> <b>Method</b> <u>8015</u> <b>Other</b> _____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
<b>DATE</b> <u>11/10/97</u> <b>PRINTED NAME</b> <u>Ronald A. Dedrick</u>	
<b>SIGNATURE</b> <u>Ronald A. Dedrick</u> <b>AND TITLE</b> <u>Environmental Technician II</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
<b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
<b>SIGNED:</b> <u>[Signature]</u> <b>DATE:</b> <u>11-12-97</u>	

Hx1 Hpatche M-6A Drip  
Sec 14 T25N R4W Unit P  
WFS

Land farm

→ N





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.: *5630*  
Sample No.: *16766*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache M-6A Drip Landfarm*

Project Location: *9711041249; 5pt. Composite*

Sampled by: *RB* Date: *4-Nov-97* Time: *12:49*

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>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

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#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	72	72	(70-130)	1	20%

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

Approved by: *[Signature]*

Date: *11/7/97*

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