

*Penny L. Hunt*  
DEPT. OF OIL & GAS INSPECTION

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION

OCT 28 1997

P.O. BOX 507  
DULCE, NEW MEXICO 87528

*H. J. ...*  
**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services (Conoco) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Axi Apache K-4  
Location: Unit: m Sec. 3 T. 26 N R. 5 W County Rio Arriba  
Pit Type: Separator ☒ Dehydrator ☒ Other \_\_\_\_\_  
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 4'  
(Attach diagram) Reference: wellhead ☒ other \_\_\_\_\_  
Footage from reference: 57'  
Direction from reference: 70 Degrees East North \_\_\_\_\_  
West of South \_\_\_\_\_

**Depth to Ground Water:**

(Vertical distance from contaminants  
to seasonal high water elevation or  
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 downstream  
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 downstream  
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: 6/3/97 Date Completed: 7/10/97

Remediation Method: Excavation X Approx. Cubic Yards 59

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 59

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 was solid 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 6/3/97 Sample time 1204

Sample Results

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

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

Field headspace (ppm) 19.5 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 6/12/97 PRINTED NAME Ronald A. Dedrick

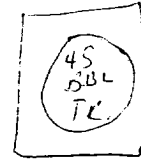
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

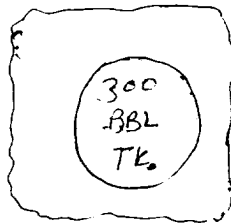
APPROVED: YES X NO \_\_\_\_\_ (REASON): spray + close

SIGNED: Kurt C. Mamm DATE: 6-16-97

Hxi Hpache K-4  
Sec 3 T26N R5W Unit M  
Conoco



SEP.



PNM  
Pit



Meter  
House

Well  
Head

57'

Hx: Hpache K-4  
Sec. 3 T26N R5W Unit M  
Conoco

20'x20'x4'

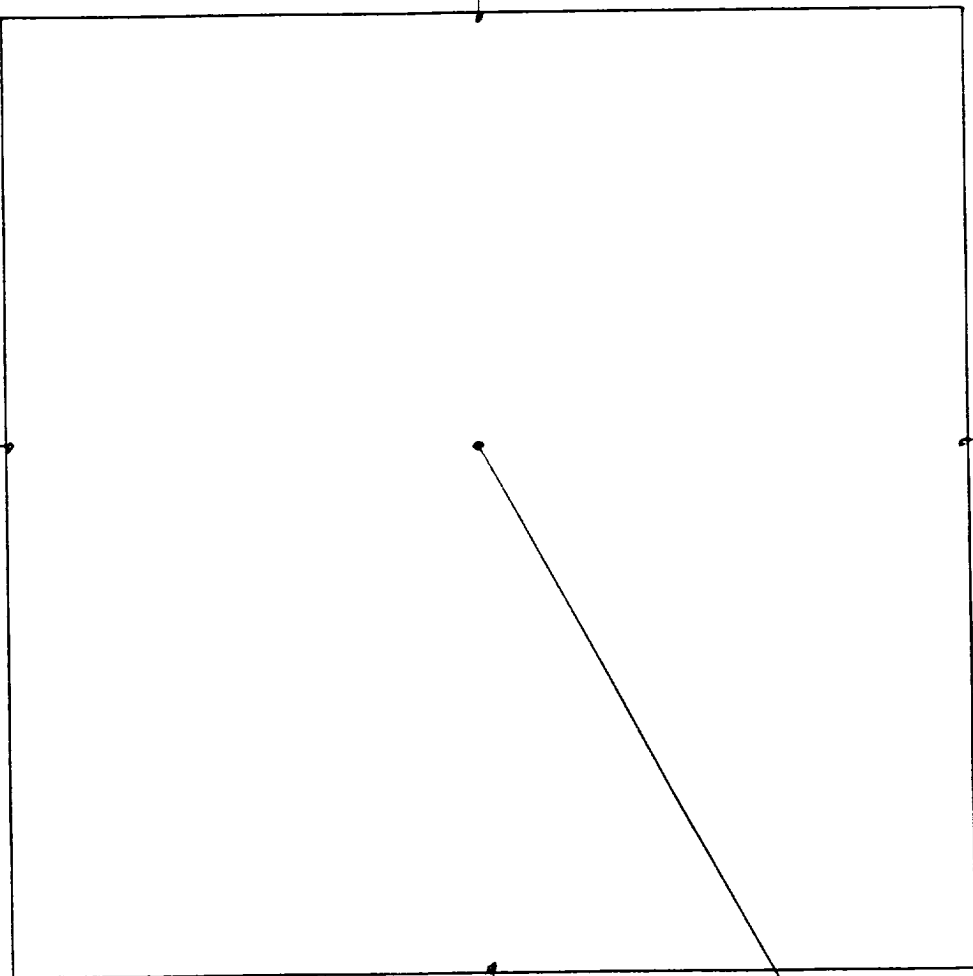
North Wall  
Sample 4'  
2.8 ppm

West Wall  
Sample 4'  
1.6 ppm

East Wall  
Sample 4'  
19.5 ppm

South Wall  
Sample 4'  
2.9 ppm

Bottom 4'  
Rock



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.: *5725*  
Sample No.: *14857*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-4*  
Project Location: *9706031204; 4pt. Composite*  
Sampled by: *PA* Date: *3-Jun-97* Time: *12:04*  
Analyzed by: *DC/HR* Date: *10-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	190	4.9	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	91	90	(70-130)	0	20%

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

Approved by: *[Signature]*

Date: *6/11/97*

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: *11-Jun-97*  
COC No.: *5725*  
Sample No.: *14857*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-4*  
Project Location: *9706031204; 4pt. Composite*  
Sampled by: *PA*  
Analyzed by: *HR*  
Sample Matrix: *Soil*

Date: *3-Jun-97* Time: *12:04*  
Date: *9-Jun-97*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	ND		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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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

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ENVIRONMENTAL  
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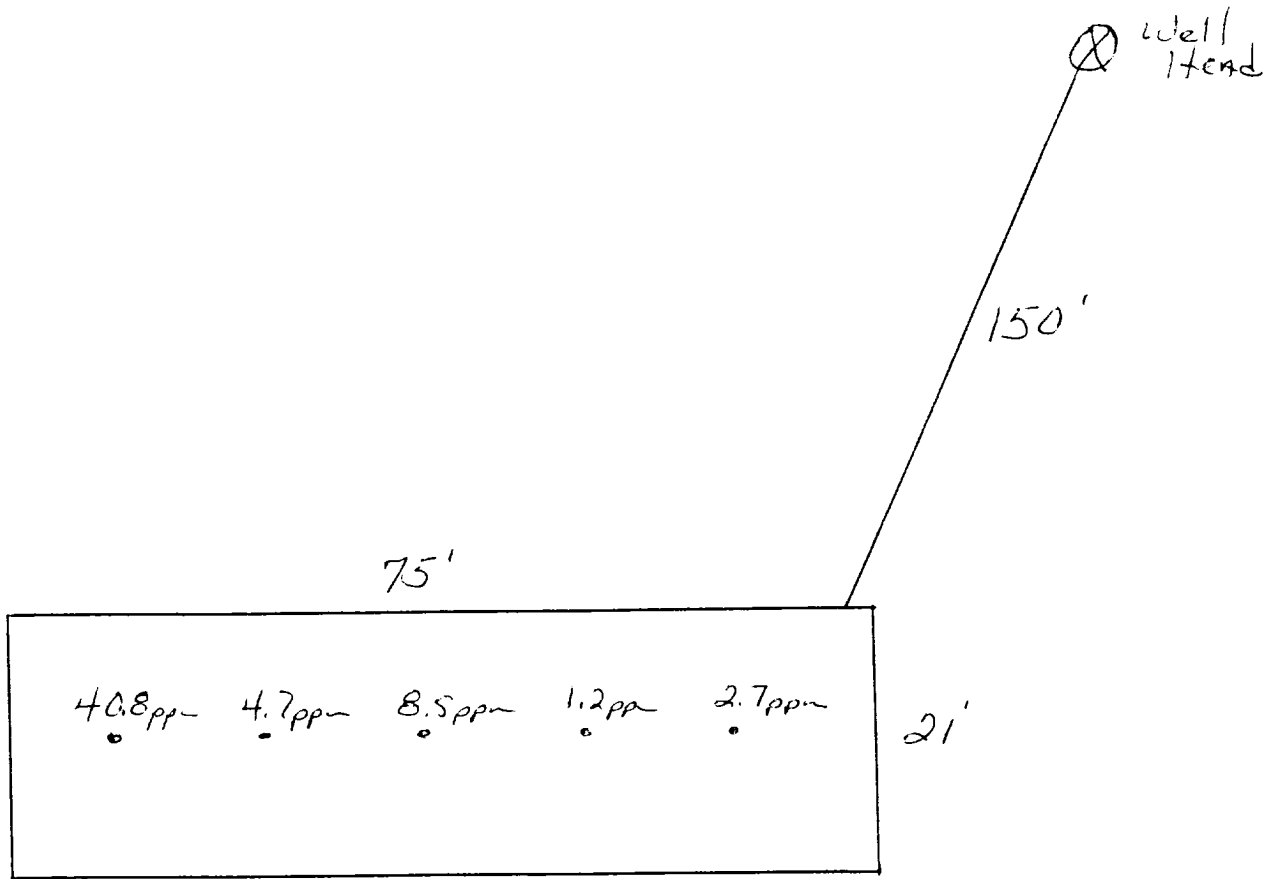
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services</u> <u>Conoco</u>		Telephone: <u>324-3764</u>
Address: <u>503 W. Elm Street Farmington, NM 87401</u>		
Facility or Well Name: <u>Ax. Apache K-4</u>		
Location:	Unit: <u>m</u>	Sec. <u>3</u> T. <u>26</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>		
Date Remediation Started: <u>6/3/97</u>		Date Completed: <u>6/26/97</u>
Remediation Method: Landfilled <u>X</u>		Approx. cubic yards <u>59</u>
Composted <u>    </u>		
Other <u>    </u>		
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>6/10/97</u> Time <u>1424</u> Sampling Results: Field Headspace (ppm) <u>40.8</u> TPH (ppm) <u>43</u> Method <u>8015</u> Other <u>    </u>
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	<u>6/26/97</u>	PRINTED NAME <u>Ronald A. Dedrick</u>
SIGNATURE	<u>Ronald A. Dedrick</u>	AND TITLE <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		
APPROVED: YES <u>X</u> NO <u>    </u> (REASON) <u>    </u>		
SIGNED: <u>Kenneth M. Manill</u> DATE: <u>6-27-97</u>		

Hx: Apache K-4  
Sec. 3 T.26N R.5W Unit M  
Conoco

Land farm





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: *20-Jun-97*  
COC No.: *5488*  
Sample No.: *15020*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-4 Landfarm*

Project Location: *9706181424; 5pt. Composite*

Sampled by: *RB* Date: *18-Jun-97* Time: *14:24*

Analyzed by: *DC/HR* Date: *20-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>	<i>43</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>5.2</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>86</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *6/20/97*

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PROVIDING QUALITY SERVICE TO THE ENVIRONMENT