

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

OCT 28 1997

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 (Conoco) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache K-5A #1

Location: Unit: P Sec. 10 T. 26 N. R. 5 W. County Rio Arriba

Pit Type: Separator X Dehydrator      Other     

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 33' width 22' depth 8'

(Attach diagram) Reference: wellhead X other     

Footage from reference: 75'

Direction from reference: 45 Degrees      East      North       
     West      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):     

RECEIVED  
JUL 31 1997

OIL CON. DIV.  
DIST. 3

1971  
DEPT. OF AGRICULTURE  
1971

Date Remediation Started:

5/14/97

Date Completed:

7/9/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

215(Check all  
appropriate  
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

215

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 of pit was solid rock.

Ground Water Encountered:

NoX

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

7'

Sample Date

5/14/97

Sample time

1045

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

ND

Toluene (ppb)

Field headspace (ppm)

8.2

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

5/22/97

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):

SIGNED:

Kate C. Mann

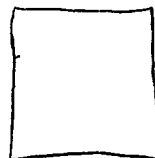
DATE:

5-29-97

TX111 Apache K-JH #1  
Sec. 10 T26N R5W Unit P  
Conoco



SEP



PNM  
Pit  
#2

D  
H

Well  
Head



75'

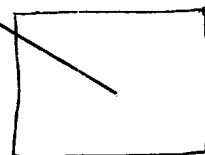


Meter



Houses

Sep



PNM  
Pit  
#1

4X1 Hpaache N-517  
Sec. 10 T26N R5W Unit P  
Conoco

33'x22'x8'

North Wall  
Sample 7'  
7.2 ppm

West Wall  
Sample 7'  
1.7 ppm

East Wall  
Sample 7'  
1.5 ppm

South Wall  
Sample 7'  
8.2 ppm

Bottom 8'  
Rock

5' Sample - 957 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: *22-May-97*  
 COC No.: *5458*  
 Sample No.: *14630*  
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-5A #1 Run 12-21*  
 Project Location: *9705141045; 4pt. Composite*  
 Sampled by: *SA* Date: *14-May-97* Time: *10:45*  
 Analyzed by: *HR/DC* Date: *19-May-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           | 5.0                   | mg/kg           |

ND - Not Detected at Limit of Quantitation

**Quality Assurance Report**DRO QC No.: *0519-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             | 100        | 112            | 11.2 | 15%       |

**Matrix Spike**

| Parameter                     | 1- Percent Recovered | 2 - Percent Recovered | Limit    | RPD | RPD Limit |
|-------------------------------|----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 100                  | 100                   | (70-130) | 0   | 20%       |

**Method** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: *[Signature]*Date: *5/22/97*

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- 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: *22-May-97*  
COC No.: *5458*  
Sample No.: *14630*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-5A #1 Run 12-21*

Project Location: *9705141045; 4pt. Composite*

Sampled by: *SA* Date: *14-May-97* Time: *10:45*

Analyzed by: *DC* Date: *21-May-97*

Sample Matrix: *Soil*

### Laboratory Analysis

| Parameter           | Results<br>as Received | Unit of<br>Measure | Limit of<br>Quantitation | Unit of<br>Measure |
|---------------------|------------------------|--------------------|--------------------------|--------------------|
| <i>Benzene</i>      | ND                     | ug/kg              | 1.0                      | ug/kg              |
| <i>Toluene</i>      | ND                     | ug/kg              | 1.0                      | ug/kg              |
| <i>Ethylbenzene</i> | ND                     | ug/kg              | 1.0                      | ug/kg              |
| <i>m,p-Xylene</i>   | ND                     | ug/kg              | 1.0                      | ug/kg              |
| <i>o-Xylene</i>     | ND                     | ug/kg              | 1.0                      | 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: *5/27/97*

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- TECHNOLOGY SAVING INDUSTRY - TO THE ENVIRONMENT -

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PROTECTION OFFICE  
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RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services ( Conoco ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Axi Apache K-5A #1  
Location: Unit: P Sec. 10 T. 26 N. R. 5 W. County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 5/14/97 Date Completed: 6/12/97  
Remediation Method: Landfilled X Approx. cubic yards: 215  
Composted —  
Other —

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

Final Closure Sampling:

Sampling Date: 6/4/97 Time 1023  
Sampling Results:  
Field Headspace (ppm) 62.1  
TPH (ppm) N/D Method 8015  
Other —

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

DATE 6/12/97 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 X NO — (REASON) OK for Backfill

SIGNED: Ken C. Mammill DATE: 6-16-97

1X114pache K-317  
Sec. 10 T26N R5W Unit P  
Conoco

Land farm

Well  
Head

27'

66'

62.1 ppm

31.0 ppm

27.6 ppm

75'

3.4 ppm

15.4 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: *9-Jun-97*  
COC No.: *5484*  
Sample No.: *14849*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache K-5A #1 Landfarm*  
Project Location: *9706041023; 5pt. Composite*  
Sampled by: *RB* Date: *4-Jun-97* Time: *10:23*  
Analyzed by: *DC/HR* Date: *5-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        | 182            | 9.5 | 15%       |

#### Matrix Spike

| Parameter                     | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | RPD | RPD Limit |
|-------------------------------|-----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 88                    | 84                    | (70-130) | 5   | 20%       |

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

Approved by: *[Signature]*

Date: *6/9/97*

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