

*L. J. Rust*  
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

*Approved*

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-6 Drip*

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

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

Land Type: *Jicarilla Apache*

Pit Location: Pit dimensions: length *20'* width *20'* depth *3'*

(Attach diagram) Reference: wellhead *X* other \_\_\_\_\_

Footage from reference: *2185'*

Direction from reference: *15°* Degrees \_\_\_\_\_ East \_\_\_\_\_ North *X*  
\_\_\_\_\_ West \_\_\_\_\_ 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)  | <i>0</i> |

**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)  | <i>0</i> |

**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)  | <i>0</i> |

**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)  | <i>0</i> |

**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)  | <i>0</i> |

RANKING SCORE (TOTAL POINTS): *0*

Date Remediation Started: 11/17/98 Date Completed: 12/15/98 <sup>RAD</sup>  
11/18/98

Remediation Method: Excavation X Approx. Cubic Yards 336 yds

(Check all appropriate sections)

Landfarmed \_\_\_\_\_ Amount Landfarmed (cubic yds): 336 yds

Other Schmitz 336 cu. yds. TNT Landfarm

Remediation Location: Onsite \_\_\_\_\_ Offsite \_\_\_\_\_

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all 4 side walls  
to a below 100 ppm headspace reading.  
Bottom was Rock at 12' depth  
Excavated pit 21' X 36' X 12'

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit Closure Sampling:

Sample Location North wall, East wall, South wall, West wall  
Bottom 3 point composite

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 12'

Sample date 11/18/98 Sample time 0940

Sample Results

Soil: Benzene (ppm) 1.5 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 44.7 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 1410 ppm Ethylbenzene (ppb) \_\_\_\_\_

TPH 180 ppm Method TPH-8010- 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 11/18/98

PRINTED NAME Gary Cook

SIGNATURE Mary Cook

AND TITLE Environmental Technician III

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): \_\_\_\_\_

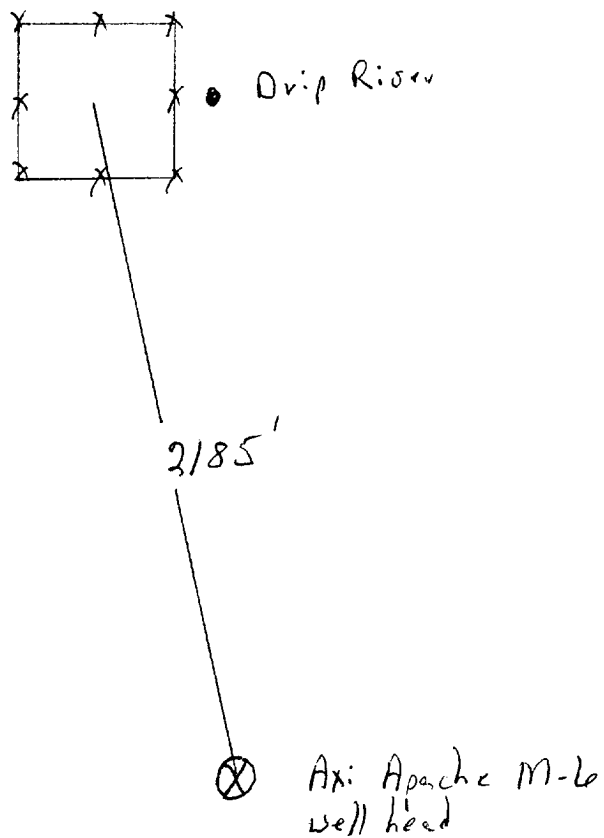
SIGNED: Ken C. M... 12-15-98 DATE: 12-15-98

Axi Apache M-6 Drip  
WFS  
Sec. 4, 25N. 4W, A

11/17/98

Site Drawing:

↑  
N

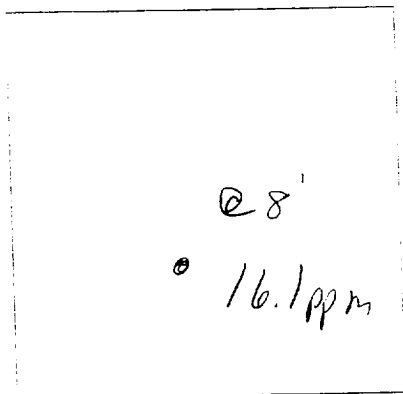


not to scale

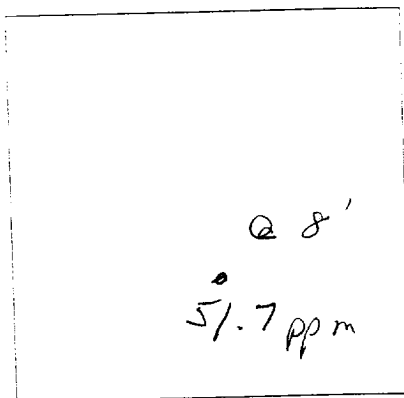
Axi Apache m-6 Drip  
WFS  
Sec 4, 25N, 4W, A

11/18/98

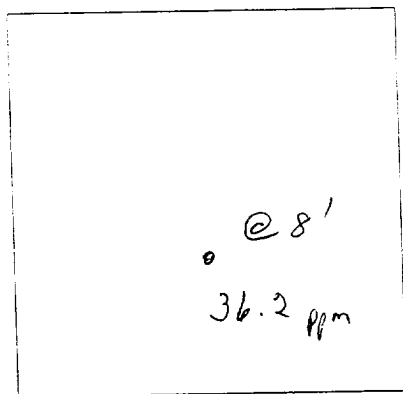
## North Wall



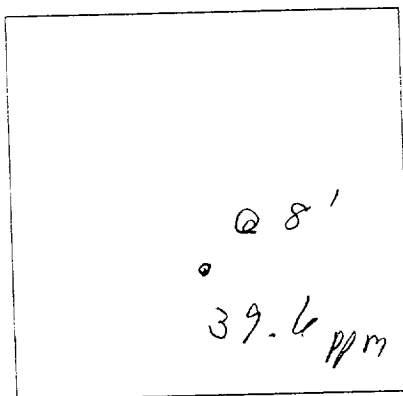
## South Wall



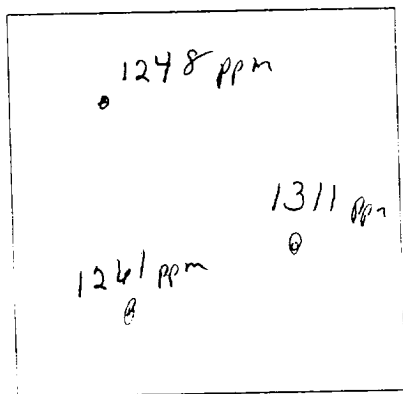
## East Wall



## West Wall



## Bottom



@ 12'  
Rock

3 pt. comp.  
head space reading = 1610 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 03-Dec-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9811065

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**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 03-Dec-98

|                    |                                    |                            |                            |
|--------------------|------------------------------------|----------------------------|----------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Axi Apache M-6 Drip        |
| <b>Work Order:</b> | 9811065                            | <b>Client Sample ID:</b>   | 9811180940; Bottom @ 12ft. |
| <b>Lab ID:</b>     | 9811065-01A                        | <b>Matrix:</b>             | SOIL                       |
| <b>Project:</b>    | Jicarilla Pit Remediation          | <b>Collection Date:</b>    | 11/18/98 9:40:00 AM        |
|                    |                                    | <b>COC Record:</b>         | 7430                       |

| Parameter                    | Result | PQL            | Qual | Units | DF  | Date Analyzed |
|------------------------------|--------|----------------|------|-------|-----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b>  |      |       |     | Analyst: HR   |
| T/R Hydrocarbons: C10-C28    | 180    | 25             |      | mg/Kg | 1   | 12/1/98       |
| <b>BTEX</b>                  |        | <b>SW8020A</b> |      |       |     | Analyst: HR   |
| Benzene                      | 1500   | 250            |      | µg/Kg | 250 | 11/24/98      |
| Toluene                      | 8900   | 500            |      | µg/Kg | 250 | 11/24/98      |
| Ethylbenzene                 | 3700   | 250            |      | µg/Kg | 250 | 11/24/98      |
| m,p-Xylene                   | 27000  | 500            |      | µg/Kg | 250 | 11/24/98      |
| o-Xylene                     | 3600   | 250            |      | µg/Kg | 250 | 11/24/98      |

44.700

**Qualifiers:**

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 03-Dec-98

|                    |                                    |                            |                          |
|--------------------|------------------------------------|----------------------------|--------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Axi Apache M-6 Drip      |
| <b>Work Order:</b> | 9811065                            | <b>Client Sample ID:</b>   | 9811180945; Walls @ 8ft. |
| <b>Lab ID:</b>     | 9811065-02A                        | <b>Matrix:</b>             | SOIL                     |
| <b>Project:</b>    | Jicarilla Pit Remediation          | <b>Collection Date:</b>    | 11/18/98 9:45:00 AM      |
|                    |                                    | <b>COC Record:</b>         | 7430                     |

| Parameter                    | Result | PQL           | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|---------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b> |      |       |    | Analyst: HR   |
| T/R Hydrocarbons: C10-C28    | ND     | 25            |      | mg/Kg | 1  | 12/1/98       |

|                    |   |   |
|--------------------|---|---|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr: - Surrogate                                   |

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