

Denny E. Foust  
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

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

*Approved*

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services *(Williams Field Service)* Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: *Aki Apache JS Drip*

Location: Unit: *0* Sec. *7* T. *25* N R. *5* W County *Rio Arriba*

Pit Type: Separator ☐ Dehydrator ☐ Other *Drip Pit*

Land Type: *Jicarilla Apache*

Pit Location: Pit dimensions: length *15'* width *15'* depth *3'*  
(Attach diagram) Reference: wellhead ☐ other *Normal High Road on River*  
Footage from reference: *6'*  
Direction from reference: *62* Degrees *K* East North *K*  
West of South

|   |  |          |
|---|--|----------|
| <b>Depth to Ground Water:</b><br>(Vertical distance from contaminants to seasonal high water elevation of ground water)                                     | Less than 50 feet (20 points)              | <i>0</i> |
|   | 50 feet to 99 feet (10 points)             | <i>0</i> |
|   | Greater than 100 feet (0 points)           | <i>0</i> |
| <b>Wellhead Protection Area:</b><br>(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)        | Yes (20 points)                            | <i>0</i> |
|   | No (0 points)                              | <i>0</i> |
| <b>Distance to Surface Water:</b><br>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)                | Less than 200 feet (20 points)             | <i>0</i> |
|   | 200 feet to 1,000 feet (10 points)         | <i>0</i> |
|   | Greater than 1,000 feet (0 points)         | <i>0</i> |
| <b>Distance to Ephemeral Stream (dry wash):</b><br>(Horizontal distance to all downgradient streams having a width of at least 10 feet)                     | Less than or equal to 100 feet (10 points) | <i>0</i> |
|   | Greater than 100 feet (0 points)           | <i>0</i> |
| <b>Distance to Nearest Lake, Playa, or Watering Pond:</b><br>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds) | Less than or equal to 100 feet (10 points) | <i>0</i> |
|   | Greater than 100 feet (0 points)           | <i>0</i> |

RANKING SCORE (TOTAL POINTS): *0*

Date Remediation Started: 7-20-98 Date Completed: 12/15/98

Remediation Method: Excavation X Approx. Cubic Yards 178 <sup>ML</sup>

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 178 <sup>ML</sup>

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Landfarmed on AXI Apache JS

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

General Description of Remedial Action:

Removal of contaminated soil from all four side walls, as to get a below 100 ppm headspace reading. Bottom was rock. Final excavation dimensions were 19' (N+S) X 22' (E+W) X 11.5' (D)

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

Final Pit Closure Sampling:

Sample Location North, South, East, and West side walls.

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

Sample depth 11.5'

Sample date 7-20-98 Sample time 1010 0950

Sample Results

Soil: Benzene (ppm) 2.7 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 42.2 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 1841 Ethylbenzene (ppb) \_\_\_\_\_

TPH 1100 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 7-28-98

PRINTED NAME Ray Haston

SIGNATURE Ray Haston

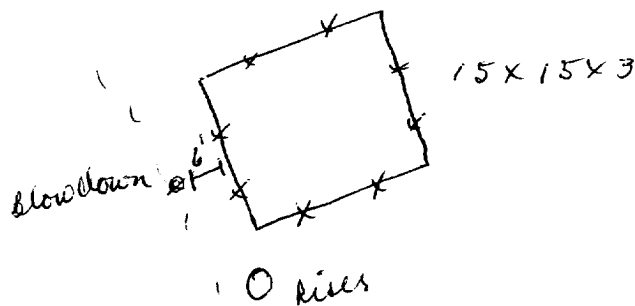
AND TITLE Environmental Technician II

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

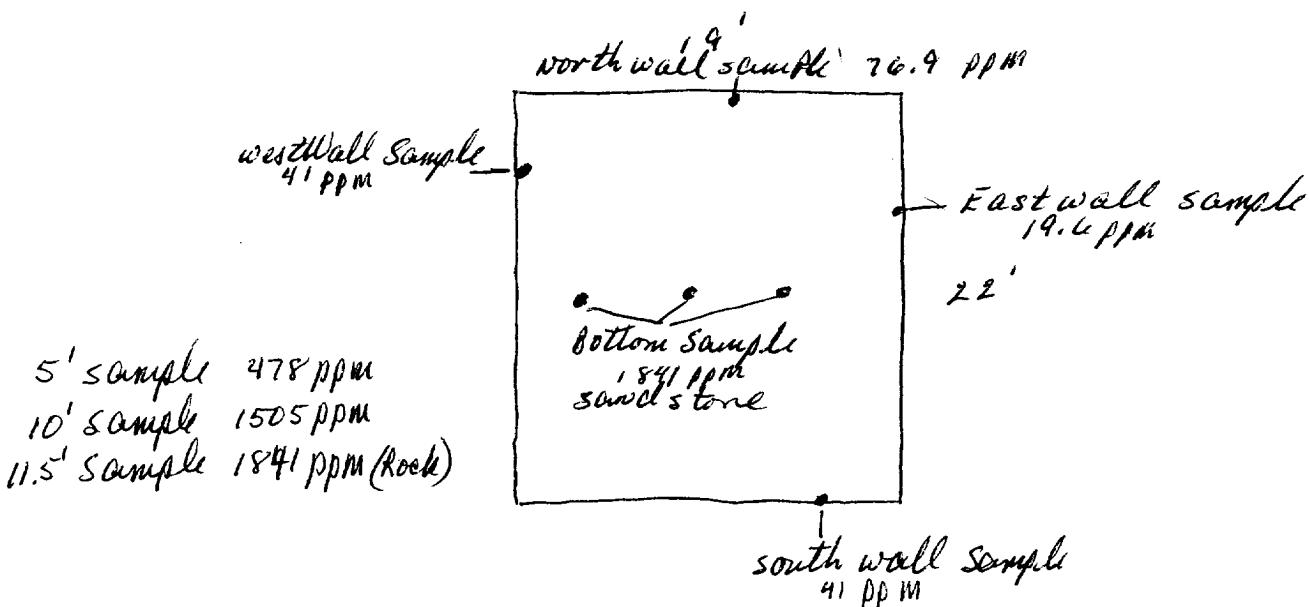
SIGNED: Karl M. Hall DATE: 7-28-98

AKI Apache T#5 Corp  
7-20-98  
7-25N-5W unit O  
Williams Field Services



Excavation sampling

19' (W) x 22' (E+W) x 11.5' (D)



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 28-Jul-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9807062

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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: 28-Jul-98

|                    |                                    |                            |                    |
|--------------------|------------------------------------|----------------------------|--------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Axi Apache J5 Drip |
| <b>Work Order:</b> | 9807062                            | <b>Client Sample ID:</b>   | 9807200950; Bottom |
| <b>Lab ID:</b>     | 9807062-01A                        | <b>Matrix:</b>             | SOIL               |
| <b>Project:</b>    | PNM Pit Remediation                | <b>Collection Date:</b>    | 7/20/98 9:50:00 AM |
|                    |                                    | <b>COC Record:</b>         | 5231               |

| Parameter                    | Result | PQL            | Qual | Units | DF  | Date Analyzed |
|------------------------------|--------|----------------|------|-------|-----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b>  |      |       |     | Analyst: HR   |
| T/R Hydrocarbons: C10-C28    | 1100   | 25             |      | mg/Kg | 1   | 7/28/98       |
| <b>BTEX</b>                  |        | <b>SW8020A</b> |      |       |     | Analyst: DC   |
| Benzene                      | 2700   | 500            |      | µg/Kg | 500 | 7/22/98       |
| Toluene                      | 17000  | 1000           |      | µg/Kg | 500 | 7/22/98       |
| Ethylbenzene                 | 1800   | 500            |      | µg/Kg | 500 | 7/22/98       |
| m,p-Xylene                   | 16000  | 1000           |      | µg/Kg | 500 | 7/22/98       |
| o-Xylene                     | 4700   | 500            |      | µg/Kg | 500 | 7/22/98       |

42200  
42.200 ppm

|                    |   |   |
|--------------------|---|---|
| <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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- THE ONLY WAY TO BRIDGING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 28-Jul-98

|                    |                                    |                            |                     |
|--------------------|------------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Axi Apache J5 Drip  |
| <b>Work Order:</b> | 9807062                            | <b>Client Sample ID:</b>   | 9807201010; Walls   |
| <b>Lab ID:</b>     | 9807062-02A                        | <b>Matrix:</b>             | SOIL                |
| <b>Project:</b>    | PNM Pit Remediation                | <b>Collection Date:</b>    | 7/20/98 10:10:00 AM |
|                    |                                    | <b>COC Record:</b>         | 5231                |

| Parameter                    | Result | PQL           | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|---------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b> |      |       |    | Analyst: HR   |
| T/R Hydrocarbons: C10-C28    | 250    | 25            |      | mg/Kg | 1  | 7/24/98       |

|                    |   |   |
|--------------------|---|---|
| <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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• TAILORING BLENDING INDUSTRY WITH THE ENVIRONMENT •

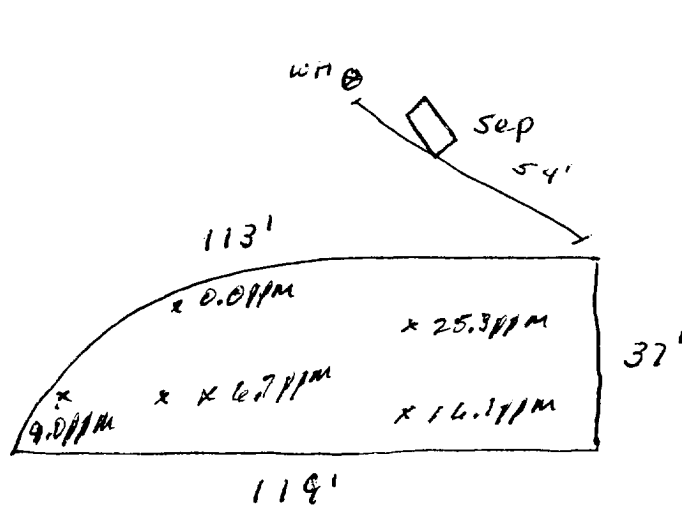
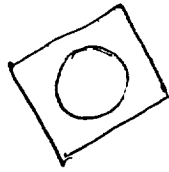
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DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

|  |   |
|--|---|
| Operator: PNM Gas Services ( <i>Williams</i> ) Telephone: 324-3764   |   |
| Address: 603 W. Elm Street Farmington, NM 87401  |   |
| Facility or Well Name: <i>AXI Apache J#5 Drop</i>  |   |
| Location: Unit: <u>0</u> Sec. <u>7</u> T. <u>25</u> N R. <u>5</u> W County <u>Rio Arriba</u>   |   |
| Land Type: <u>Jicarilla Apache</u>   |   |
| Date Remediation Started: <u>7-20-98</u> Date Completed: <u>4-28-98</u>  |   |
| Remediation Method: Landfarmed <u>K</u> Approx. cubic yards <u>178 <del>25</del> M<sup>3</sup></u>   |   |
| Composted _____  |   |
| Other <u>Landfarm bladed into location; pit backfilled from borrow pit.</u>  |   |
| Depth to Ground Water: (pts.) <u>0</u>   | Final Closure Sampling:<br>Sampling Date: <u>4-21-98</u> Time <u>1300</u><br>Sampling Results:<br>Field Headspace (ppm) <u>21.0</u><br>TPH (ppm) <u>150</u> Method <u>8015</u><br>Other _____ |
| Distance to an Ephemeral Stream: (pts.) <u>70 <sup>M</sup> 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 <sup>M</sup></u>  |   |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF  |   |
| DATE <u>12-12-98</u>   | PRINTED NAME <del>Roy Burnham</del> <i>Ray Haston</i>   |
| SIGNATURE <u><i>Ray Haston</i></u>   | AND TITLE <u>Environmental Technician II i</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 _____ (REASON) <u><del>Not for use as Backfill</del></u>   |   |
| SIGNED: <u><i>K. C. Newman</i></u>   | DATE: <u>12-15-98</u>   |

AXI Apache J #5  
 (D) 7-25N-5W  
 CONOCO



2"12"  
 Headspace 21.0 ppm

AXI Apache J #5 Drip Level Farm on AXI Apache J #5



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 30-Sep-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9809056

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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: 30-Sep-98

|                    |                                    |                            |                        |
|--------------------|------------------------------------|----------------------------|------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Axi Apache J-5 Drip LF |
| <b>Work Order:</b> | 9809056                            | <b>Client Sample ID:</b>   | 9809211300; 6pt. Comp. |
| <b>Lab ID:</b>     | 9809056-03A                        | <b>Matrix:</b>             | SOIL                   |
| <b>Project:</b>    | PNM Pit Remediation                | <b>Collection Date:</b>    | 9/21/98 1:00:00 PM     |
|                    |                                    | <b>COC Record:</b>         | 7505                   |

| Parameter                    | Result | PQL           | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|---------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b> |      |       |    | Analyst: HR   |
| T/R Hydrocarbons: C10-C28    | 150    | 25            |      | mg/Kg | 1  | 9/28/98       |

*Form bladed into location, pit backfilled from borrow pit*

|                    |   |   |
|--------------------|---|---|
| <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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