

*Denny E. Frost*  
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*) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: *Jicarilla Contract 147-4 Drp*

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

Pit Type: Separator ☐ Dehydrator ☐ Other *Manual Drp Blowdown*

Land Type: *Jicarilla Apache*

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

(Attach diagram) Reference: wellhead ☐ other *Manual Blowdown riser*

Footage from reference: *9'*

Direction from reference: *22°* Degrees ☐ East North ☐

☒ 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)

*0*

**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)

*0*

**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)

*0*

**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)

*0*

**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)

*0*

RANKING SCORE (TOTAL POINTS): *0*

Date Remediation Started: 8-12-98 Date Completed: 11/2/98

Remediation Method: Excavation K Approx. Cubic Yards 88

(Check all appropriate sections)

Landfarmed K Amount Landfarmed (cubic yds): 88

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite 88 yds. farmed on Axi Apache I 20  
(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 better 100 ppm lead level readings. Bottom is rock.  
Final excavation dimensions: 17'(N+S) x 20'(E+W) x 7'(D)

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

Final Pit Closure Sampling:

Sample Location North, East, South and west side walls and a three point composite sample of bottom

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

Sample depth 7'

Sample date 8-12-98 Sample time 1525 1515

Sample Results

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

Total BTEX (ppm) 0.310 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 311 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND ppm Method P015 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 8-31-98

PRINTED NAME Ray Hoston

SIGNATURE Ray Hoston

AND TITLE Environmental Technician

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

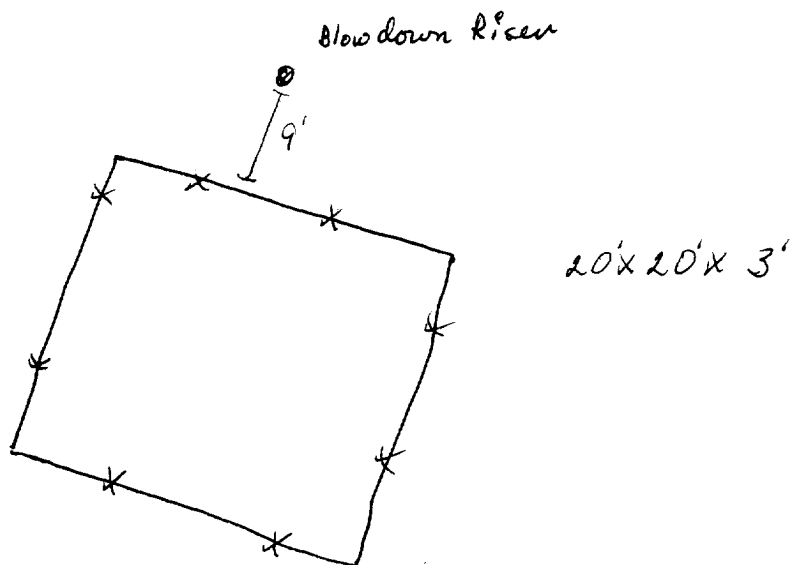
SIGNED: Ken C. Man... DATE: 9-3-98

LICHTEN CONCRETE 141-4 DRIP

(A) 5-25N-5W

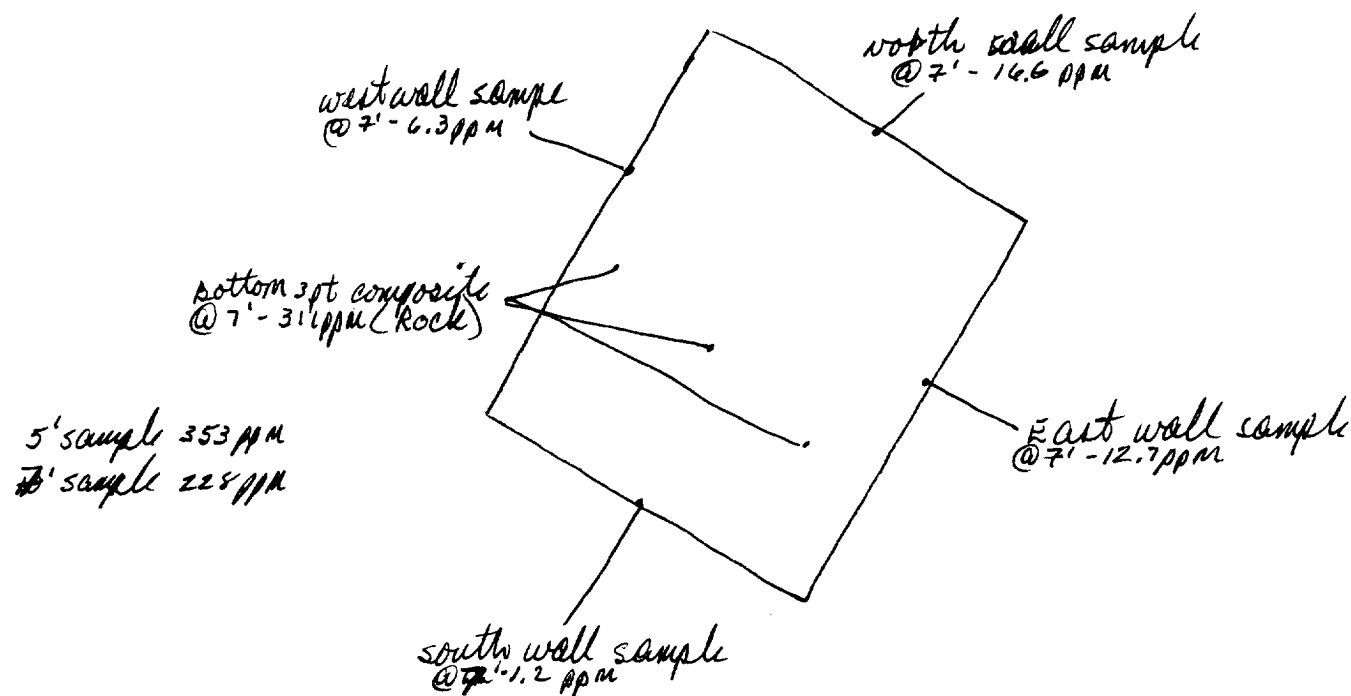
Williams

N  
↑



Excavation Sampling

17' (N+S) x 20' (E+W) x 7' (D)



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 21-Aug-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9808028

## **CASE NARRATIVE**

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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: 21-Aug-98

|                    |                                    |                            |                               |
|--------------------|------------------------------------|----------------------------|-------------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Jic. Contract 147-4 Drip      |
| <b>Work Order:</b> | 9808028                            | <b>Client Sample ID:</b>   | 9808121515; 3pt. Comp. Bottom |
| <b>Lab ID:</b>     | 9808028-03A                        | <b>Matrix:</b>             | SOIL                          |
| <b>Project:</b>    | PNM Pit Remediation                | <b>Collection Date:</b>    | 8/12/98 3:15:00 PM            |
|                    |                                    | <b>COC Record:</b>         | 5751                          |

| 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  | 8/19/98       |
| <b>BTEX</b>                  |        | <b>SW8020A</b> |      |       |    | Analyst: DC   |
| Benzene                      | ND     | 2              |      | µg/Kg | 2  | 8/18/98       |
| Toluene                      | ND     | 4              |      | µg/Kg | 2  | 8/18/98       |
| Ethylbenzene                 | 4.9    | 2              |      | µg/Kg | 2  | 8/18/98       |
| m,p-Xylene                   | 220    | 4              |      | µg/Kg | 2  | 8/18/98       |
| o-Xylene                     | 85     | 2              |      | µg/Kg | 2  | 8/18/98       |

309.9  
0.3099

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

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LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 21-Aug-98

|                    |                                    |                            |                          |
|--------------------|------------------------------------|----------------------------|--------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Jic. Contract 147-4 Drip |
| <b>Work Order:</b> | 9808028                            | <b>Client Sample ID:</b>   | 9808121525; Wall Comp.   |
| <b>Lab ID:</b>     | 9808028-04A                        | <b>Matrix:</b>             | SOIL                     |
| <b>Project:</b>    | PNM Pit Remediation                | <b>Collection Date:</b>    | 8/12/98 3:25:00 PM       |
|                    |                                    | <b>COC Record:</b>         | 5751                     |

| 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  | 8/18/98       |

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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services ( WFS ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla Contract 147-4 Drp  
Location: Unit: A Sec. 5 T. 25 N R. 5 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 8-12-98 Date Completed: 10-6-98  
Remediation Method: Landfarmed X Approx. cubic yards 88  
Composted —  
Other —

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

Final Closure Sampling:

Sampling Date: 4-30-98 Time 1235  
Sampling Results:  
Field Headspace (ppm) 0.0  
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 10-24-98 PRINTED NAME ~~Ray Burnham~~ Ray Haston  
SIGNATURE Ray Haston AND TITLE Environmental Technician II

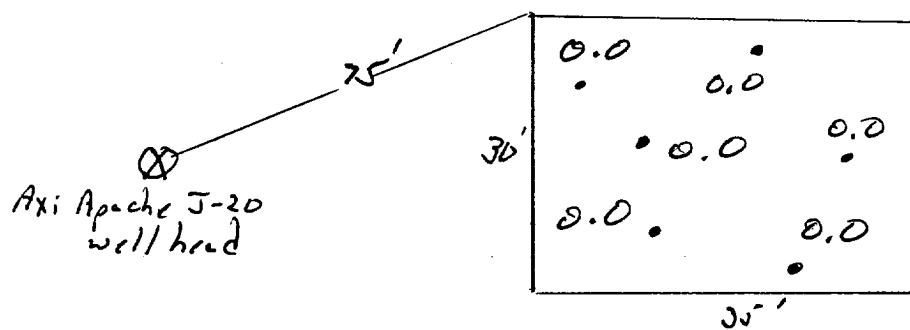
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE  
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO — (REASON) was not Backfill  
SIGNED: K. C. Mearl DATE: 11-2-98

Jicaville Contract # 147-4 Drip  
WFS  
Sec. 5, 25N, 5W, A

9/2/98

Landfarmed: Axi Apache J-20  
Conoco  
Sec 5, 25N, 5W, C



2"-12" depth  
soil vapor headspace reading = 0.0

not to scale



OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 14-Oct-98

|                    |                                    |                            |                                  |
|--------------------|------------------------------------|----------------------------|----------------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Jicarilla Contract 147-4 Drip LF |
| <b>Work Order:</b> | 9810005                            | <b>Client Sample ID:</b>   | 9809301235; 6pt. Composite       |
| <b>Lab ID:</b>     | 9810005-05A                        | <b>Matrix:</b>             | SOIL                             |
| <b>Project:</b>    | Jicarilla Landfarms                | <b>Collection Date:</b>    | 9/30/98 12:35:00 PM              |
|                    |                                    | <b>COC Record:</b>         | 7509                             |

| Parameter                    | Result | PQL           | Qual | Units | DF | Date Analyzed      |
|------------------------------|--------|---------------|------|-------|----|--------------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b> |      |       |    | <b>Analyst: HR</b> |
| T/R Hydrocarbons: C10-C28    | ND     | 25            |      | mg/Kg | 1  | 10/6/98            |

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