

DEPT OF NATURAL RESOURCES

JICARILLA APACHE TRIBE

FEB 08 1993

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 (WFS) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache 04 Drip

Location: Unit: D Sec. 9 T. 25 N R. 4 W County Rio Arriba

Pit Type: Separator Dehydrator Other Line Drip

Land Type: Jicarilla Apache

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

(Attach diagram) Reference: wellhead other Line Drip Riser

Footage from reference: 29'

Direction from reference: 10 Degrees X East X North of 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) 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) 10

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): 10

Date Remediation Started: 10/6/98 Date Completed: 12/15/98

Remediation Method: Excavation X Approx. Cubic Yards 1034

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 1034

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite 517 cu yds. Jicarilla Apache On-site

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

517 cu. yds. at Jicarilla Landfarm #6

**General Description of Remedial Action:**

Removed contaminated soil from all four side walls and pit bottom as to get a below 100 ppm headspace reading. Final excavation: 38' X 35' X 21'.

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

**Final Pit Closure Sampling:**

Sample Location North, East, South, West side walls and pit bottom

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

Sample depth 21'

Sample date 10/7/98 Sample time 1201

**Sample Results**

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

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

Field headspace (ppm) 25.4 (Bottom) 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 10/27/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

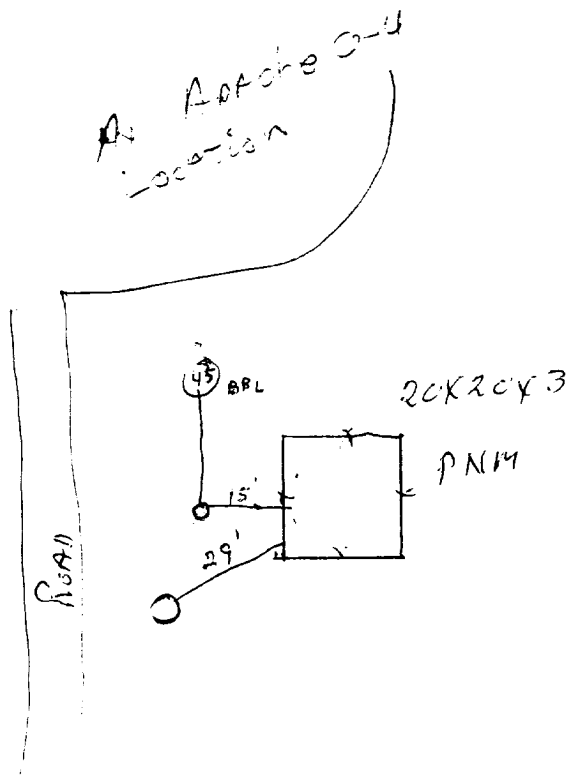
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: Kenneth M. M... (Signature) DATE: 11-2-98

Ap. Apache O4 Drip  
Sec 9 T-25N R-4E S 46-D

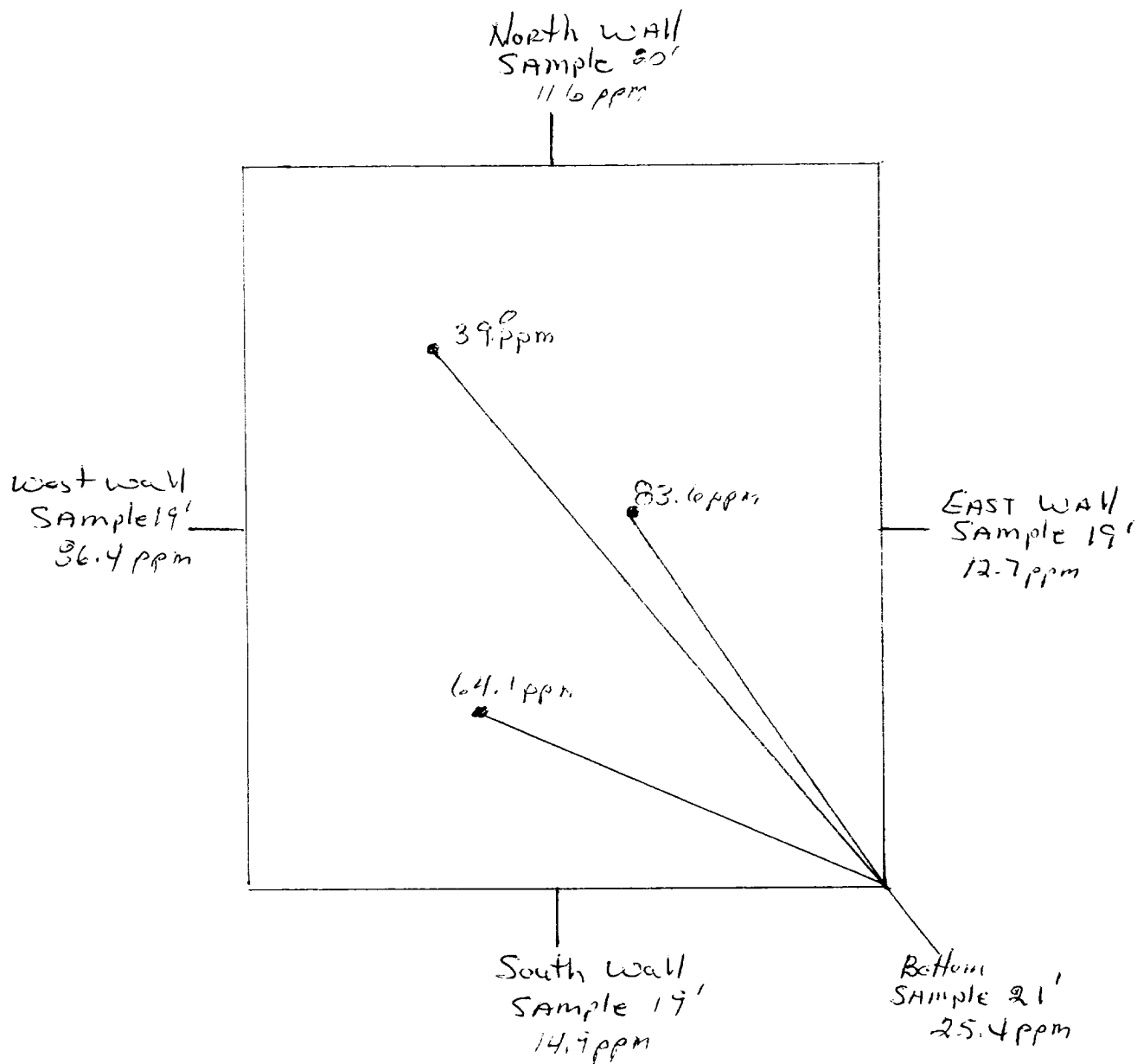
Site Drawing



Ap1 Apache 0-4 Drip?  
Sec-9 T-25N R-4W ULD  
WFS

# EXCAVATION DRAWING

38' x 35' x 21'



OFF: (505) 325-5667



LAB: (505) 325-1556

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**On Site Technologies, LTD.**

**Date:** 23-Oct-98

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

**Project:** Jicarilla Pit Remediation

**Lab Order:** 9810033

**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: 23-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O4 Drip
<b>Work Order:</b>	9810033	<b>Client Sample ID:</b>	9810071202; 3pt. Comp. Bottom
<b>Lab ID:</b>	9810033-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/7/98 12:02:00 PM
		<b>COC Record:</b>	7393

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	10/14/98

**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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1 of 1

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O4 Drip
<b>Work Order:</b>	9810033	<b>Client Sample ID:</b>	9810071201; 4pt. Comp. Walls
<b>Lab ID:</b>	9810033-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/7/98 12:01:00 PM
		<b>COC Record:</b>	7393

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
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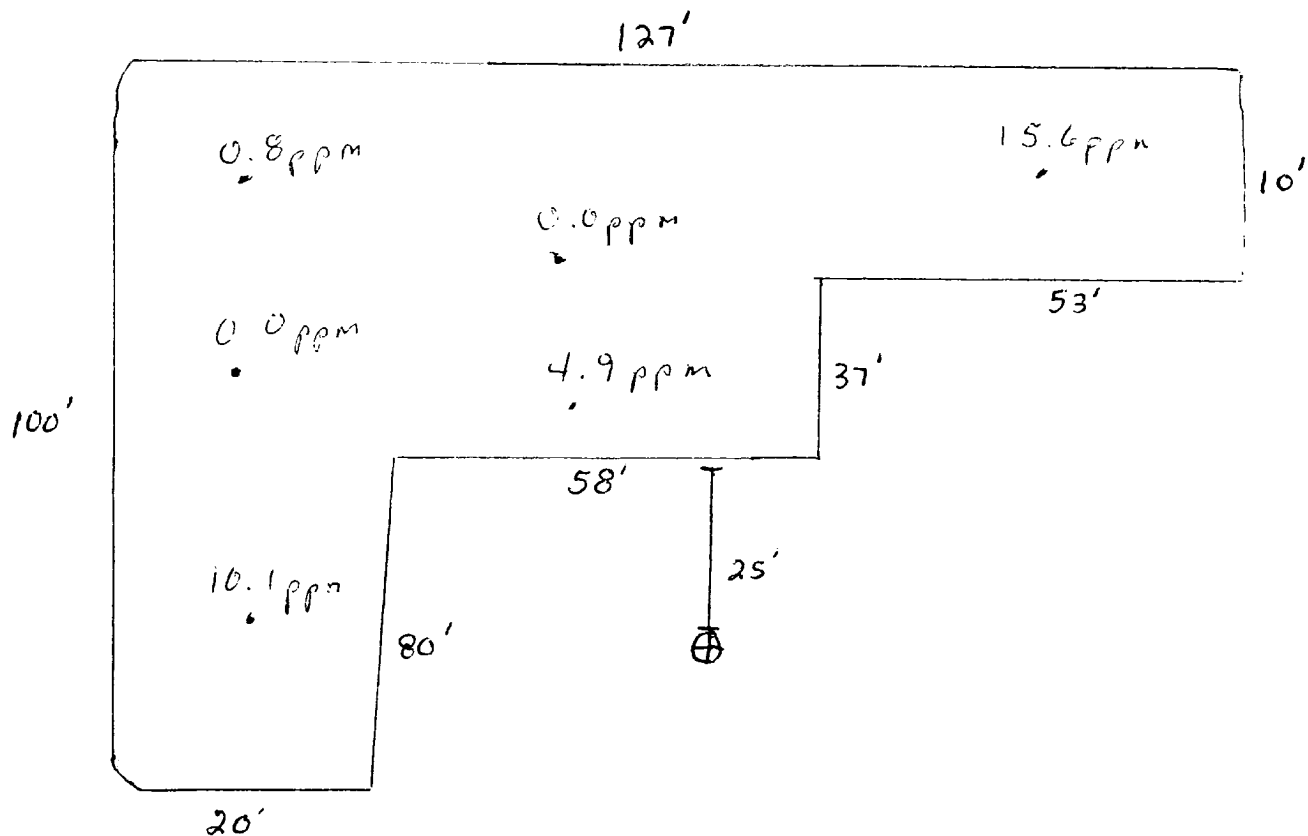
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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT #1

Operator: PNM Gas Services ( WFS ) Telephone: 324-3764																															
Address: 603 W. Elm Street Farmington, NM 87401																															
Facility or Well Name: Ax, Apache 04 DRIP																															
Location: Unit: D Sec. 9 T. 25 N R. 4 W County Rio Arriba																															
Land Type: Jicarilla Apache																															
Date Remediation Started: 10/6/98 Date Completed: 12/7/98																															
Remediation Method: Landfarmed X Approx. cubic yards 517 Composted _____ Other _____																															
<table border="1" style="width:100%"><tr><td>Depth to Ground Water:</td><td>(pts.)</td><td>Ø</td></tr><tr><td>Distance to an Ephemeral Stream:</td><td>(pts.)</td><td>RB Ø 10</td></tr><tr><td>Distance to Nearest Lake, Playa, or Watering Pond:</td><td>(pts.)</td><td>Ø</td></tr><tr><td>Wellhead Protection Area:</td><td>(pts.)</td><td>Ø</td></tr><tr><td>Distance to Surface Water:</td><td>(pts.)</td><td>Ø</td></tr><tr><td>Ranking Score (Total Points):</td><td></td><td>RB Ø 10</td></tr></table>	Depth to Ground Water:	(pts.)	Ø	Distance to an Ephemeral Stream:	(pts.)	RB Ø 10	Distance to Nearest Lake, Playa, or Watering Pond:	(pts.)	Ø	Wellhead Protection Area:	(pts.)	Ø	Distance to Surface Water:	(pts.)	Ø	Ranking Score (Total Points):		RB Ø 10	<table border="1" style="width:100%"><tr><td colspan="2">Final Closure Sampling:</td></tr><tr><td>Sampling Date:</td><td>11/24/98 Time 1040</td></tr><tr><td colspan="2">Sampling Results:</td></tr><tr><td>Field Headspace (ppm)</td><td>156</td></tr><tr><td>TPH (ppm)</td><td>N/D Method 8015</td></tr><tr><td>Other</td><td></td></tr></table>	Final Closure Sampling:		Sampling Date:	11/24/98 Time 1040	Sampling Results:		Field Headspace (ppm)	156	TPH (ppm)	N/D Method 8015	Other	
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DATE 12/12/98 PRINTED NAME Roy Burnham																															
SIGNATURE Roy Burnham 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) use as Backfill																															
SIGNED: X E. C. M. DATE: 12-15-98																															

Axi Apache 0-4 Drip  
Sec-9 T-25N R-4W 4L D  
WFS

LAND FARM DRAWING #1



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 08-Dec-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation Landfarms  
**Lab Order:** 9811079

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## **CASE NARRATIVE**

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

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

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## ANALYTICAL REPORT

Date: 08-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-4 Drip LF
<b>Work Order:</b>	9811079	<b>Client Sample ID:</b>	9811241040; 6pt Composite
<b>Lab ID:</b>	9811079-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation Landfarms	<b>Collection Date:</b>	11/24/98 10:40:00 AM
		<b>COC Record:</b>	7443

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
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