

OK

*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 ( <u>Conoco</u> )		Telephone:	<u>324-3764</u>	
Address:	<u>603 W. Elm Street Farmington, NM 87401</u>				
Facility or Well Name:	<u>Ax1 Apache O-10</u>				
Location:	Unit: <u>J</u>	Sec. <u>3</u>	T. <u>25 N</u>	R. <u>4 W</u>	County <u>Rio Arriba</u>
Pit Type:	Separator <u>X</u>	Dehydrator <u>    </u>	Other <u>    </u>		
Land Type:	<u>Jicarilla Apache</u>				
Pit Location:	Pit dimensions: length <u>20'</u> width <u>20'</u> depth <u>3'</u>				
(Attach diagram)	Reference: wellhead <u>X</u> other <u>    </u>				
	Footage from reference: <u>99'</u>				
	Direction from reference: <u>60</u> Degrees <u>X</u> East <u>    </u> North <u>    </u>				
	<u>    </u> West <u>    </u> South <u>X</u>				
Depth to Ground Water:	Less than 50 feet (20 points) <u>    </u>				
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet (10 points) <u>    </u>				
	Greater than 100 feet (0 points) <u>    </u>				
Wellhead Protection Area:	Yes (20 points) <u>    </u>				
(Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)	No (0 points) <u>    </u>				
Distance to Surface Water:	Less than 200 feet (20 points) <u>    </u>				
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet (10 points) <u>    </u>				
	Greater than 1,000 feet (0 points) <u>    </u>				
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet (10 points) <u>    </u>				
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet (0 points) <u>    </u>				
Distance to Nearest Lake, Playa, or Watering Pond:	Less than or equal to 100 feet (10 points) <u>    </u>				
(Horizontal distance to all downgradient lakes, playas and livestock or wildlife water ponds)	Greater than 100 feet (0 points) <u>    </u>				
RANKING SCORE (TOTAL POINTS):					<u>    </u>

Date Remediation Started: 11/5/98 Date Completed: 12/28/98

Remediation Method: Excavation X Approx. Cubic Yards 491

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 491

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 headspace reading. Pit bottom  
is sandstone 3 Pt composite of Pit bottom  
Final excavation: 48' X 46' X 6'.

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 6'

Sample date 11/4/98 Sample time 1145  
1146

Sample Results

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

Total BTEX (ppm) .0825 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 12.8 (bottom)  
82.8 (north wall) 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 11/21/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

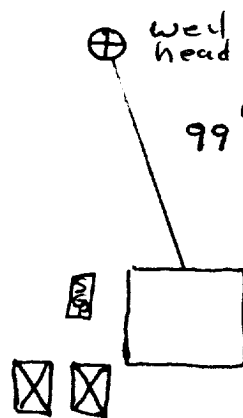
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

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

SIGNED: Kent M. M... DATE: 11-30-98

AXI Apache 0-10  
Sec-3 T-25N R-4W UL 5  
Conoco

# Site Drawing



Not to Scale

AXI Apache O-10  
Sec-3 T-25H R-4W uc 5  
Conoco

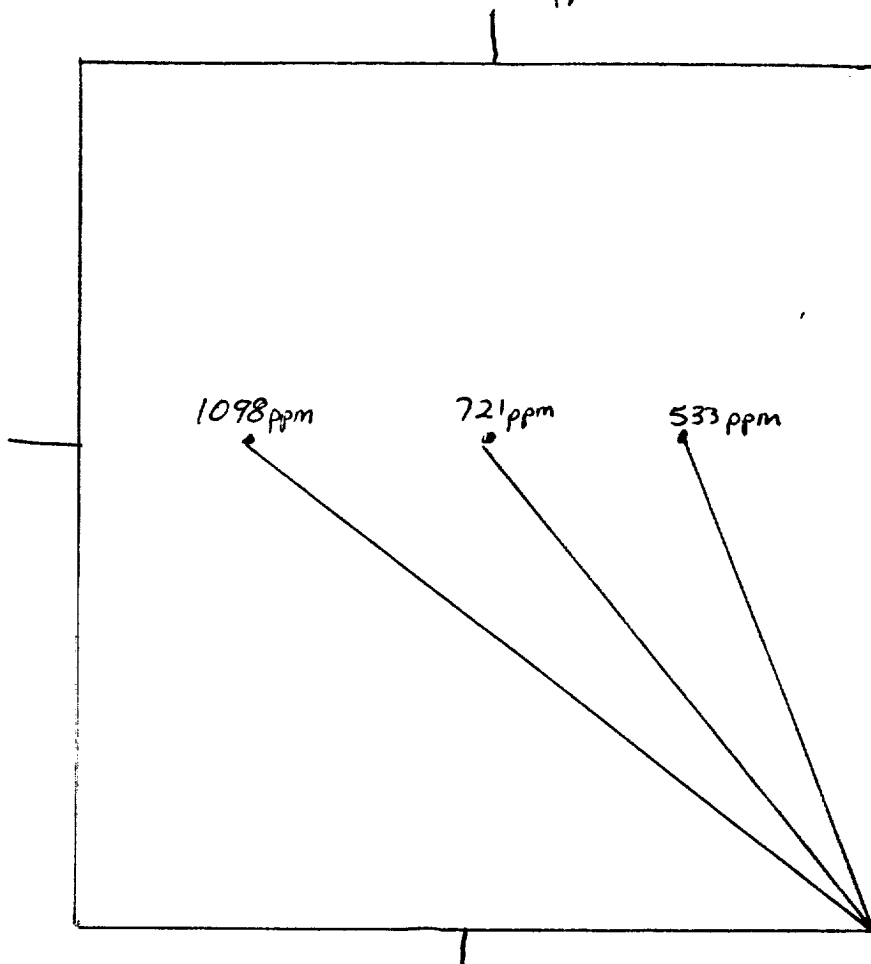
# EXCAVATION Drawing

48'x46'x6'

North Wall  
Sample 5'  
82.8ppm

West wall  
Sample 5'  
0.0ppm

EAST wall  
Sample 4'  
11.2ppm



South Wall  
Sample 5'  
80.1ppm

Bottom Sample 6'  
12.8ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 16-Nov-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9811029

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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: 16-Nov-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-10
<b>Work Order:</b>	9811029	<b>Client Sample ID:</b>	9811061146; 3pt Comp Bottom
<b>Lab ID:</b>	9811029-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	11/4/98 11:46:00 AM
		<b>COC Record:</b>	7362

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/15/98
<b>BTEX</b>		<b>SW8020A</b>				<b>Analyst: HR</b>
Benzene	ND	1		µg/Kg	1	11/9/98
Toluene	ND	2		µg/Kg	1	11/9/98
Ethylbenzene	7.9	1		µg/Kg	1	11/9/98
m,p-Xylene	67	2		µg/Kg	1	11/9/98
o-Xylene	7.6	1		µg/Kg	1	11/9/98

82.50  
0825

**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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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 16-Nov-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-10
<b>Work Order:</b>	9811029	<b>Client Sample ID:</b>	9811061145; 4pt Comp Walls
<b>Lab ID:</b>	9811029-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	11/4/98 11:45:00 AM
		<b>COC Record:</b>	7362

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/15/98

**Qualifiers:**

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- Surr: - Surrogate

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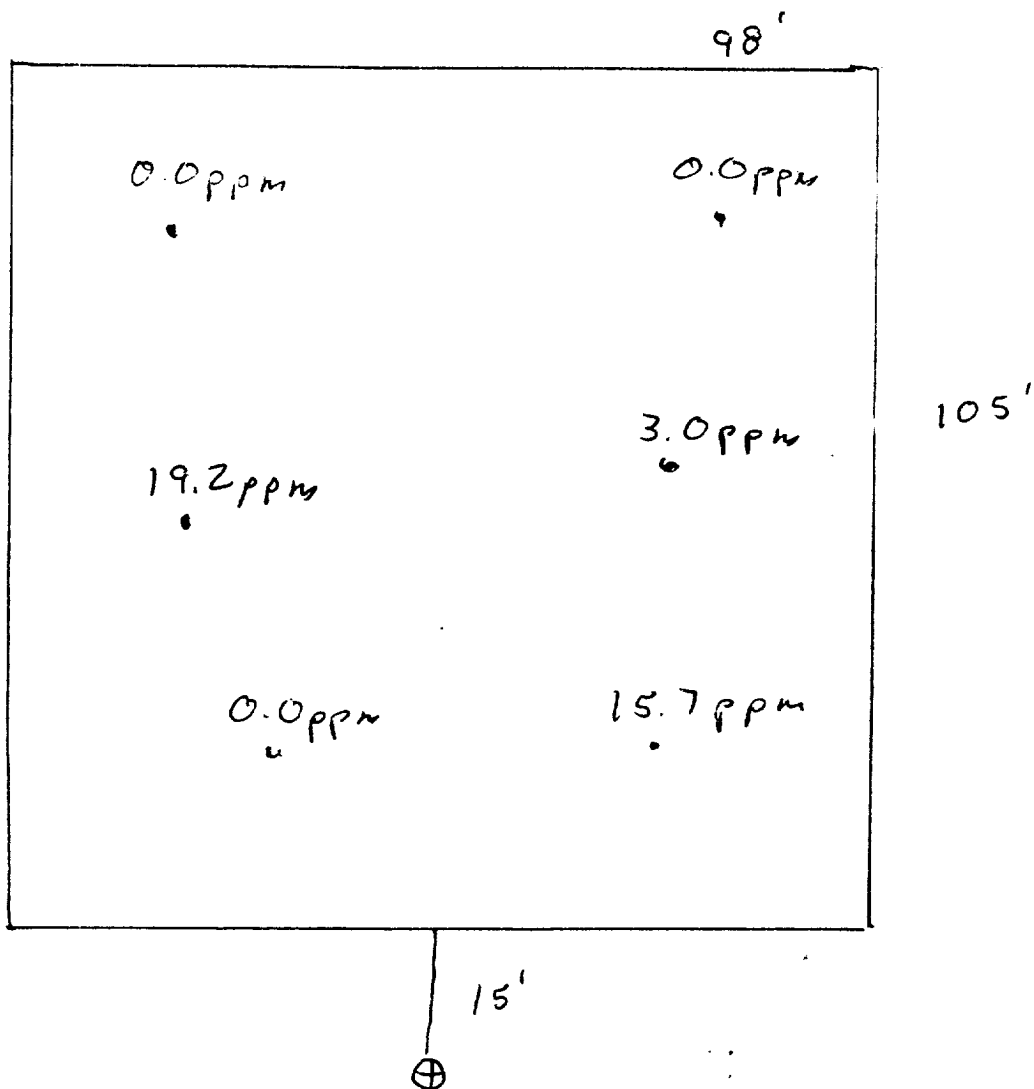
ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services (Conoco)</u> Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Axi Apache O-10</u>	
Location: Unit: <u>J</u> Sec. <u>3</u> T. <u>25 N</u> R. <u>4 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>11/5/98</u> Date Completed: <u>12/14/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>491</u>	
Composted <u>    </u>	
Other <u>    </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>12/9/98</u> Time <u>1125</u> Sampling Results: Field Headspace (ppm) <u>19.2</u> TPH (ppm) <u>ND</u> Method <u>8015</u> Other <u>    </u>
Distance to an Ephemeral Stream: (pts.) <u>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</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>12/21/98</u> PRINTED NAME <u>Roy Burnham</u>	
SIGNATURE <u>Roy Burnham</u> AND TITLE <u>Environmental Technician II</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 <u>    </u> (REASON) <u>use as Backfill</u>	
SIGNED: <u>Ker C Marshall</u> DATE: <u>12-28-98</u>	



1741 HPACHE 0-10  
SEC-3 T-25N R-4W ucs  
CONOCO

# LAND FARM DRAWING



plot to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 17-Dec-98

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

**Project:** Jicarilla Pit Remediation

**Lab Order:** 9812018

**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: 17-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-10 LF
<b>Work Order:</b>	9812018	<b>Client Sample ID:</b>	9812091125 6pt Composite
<b>Lab ID:</b>	9812018-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	12/9/98 11:25:00 AM
		<b>COC Record:</b>	7450

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	12/14/98

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