

DEPUTY OIL & GAS PROGRAM 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

<b>Operator:</b>	PNM Gas Services ( <u>Conoco</u> )	<b>Telephone:</b>	324-3764
<b>Address:</b>	603 W. Elm Street Farmington, NM 87401		
<b>Facility or Well Name:</b>	<u>Ax Apache 0-9</u>		
<b>Location:</b>	Unit: <u>P</u>	Sec. <u>9</u>	T. <u>25 N</u> R. <u>4 W</u> County <u>Rio Arriba</u>
<b>Pit Type:</b>	Separator <u>X</u>	Dehydrator <u>    </u>	Other <u>    </u>
<b>Land Type:</b>	<u>Jicarilla Apache</u>		

<b>Pit Location:</b>	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>60'</u>		
	Direction from reference:	<u>straight</u> Degrees <u>    </u> East <u>    </u> North <u>    </u>	of <u>    </u> South <u>    </u>	
		<u>X</u> West		

<b>Depth to Ground Water:</b>	Less than 50 feet	(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet	(10 points)	<u>Ø</u>
	Greater than 100 feet	(0 points)	<u>    </u>

<b>Wellhead Protection Area:</b>	Yes	(20 points)	
(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>Ø</u>

<b>Distance to Surface Water:</b>	Less than 200 feet	(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet	(10 points)	<u>Ø</u>
	Greater than 1,000 feet	(0 points)	<u>    </u>

<b>Distance to Ephemeral Stream (dry wash):</b>	Less than or equal to 100 feet	(10 points)	
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet	(0 points)	<u>Ø</u>

<b>Distance to Nearest Lake, Playa, or Watering Pond:</b>	Less than or equal to 100 feet	(10 points)	
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Greater than 100 feet	(0 points)	<u>Ø</u>

<b>RANKING SCORE (TOTAL POINTS):</b>	<u>Ø</u>
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Date Remediation Started:

10/23/98

Date Completed:

12/21/98

Remediation Method:

Excavation

X

Approx. Cubic Yards

304

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

304

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 and pit bottom as to get a below 100ppm headspace readings  
Final excavation: 38' X 36' X 6'.

Ground Water Encountered:

No

X

Yes \_\_\_\_\_

Depth \_\_\_\_\_

## Final Pit Closure Sampling:

Sample Location

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

Sample depth

6'

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

Sample date

10/23/98

Sample time

10301031

## Sample Results

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

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

Total BTEX (ppm) \_\_\_\_\_

Toluene (ppb) \_\_\_\_\_

Field headspace (ppm)

98.3

Ethylbenzene (ppb) \_\_\_\_\_

TPH

62

ppm

Method

GC/MS

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:

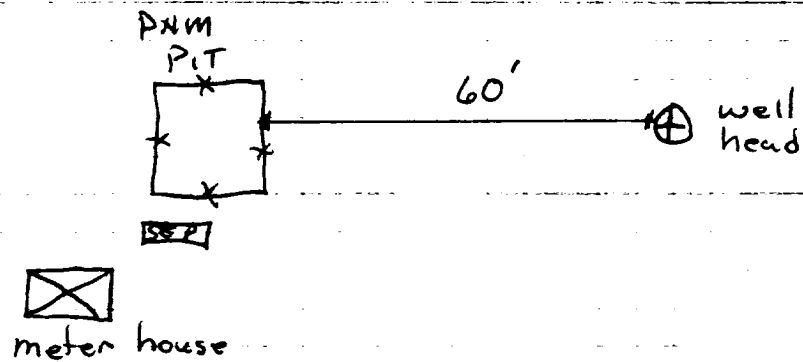
Ker C Mando

DATE:

11-30-98

At: Apache 0-9  
Sec. 9 T-25N R-4W ul P  
Conoco

# Site Drawing



Not to scale

At: Apache 0-9  
Sec-9 T-25N R-4W 4L P  
Conoco

# EXHAUSTION DRAWING

38'X36'X6'

North Wall  
Sample 6.0ppm  
4'

West Wall  
Sample 30.1ppm  
5'

East Wall  
Sample 11.4ppm  
4'

87.3 ppm

73.2 ppm

69.3 ppm

South Wall  
Sample 26.8 ppm  
5'

Bottom  
Sample 98.3 ppm  
6'

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 10-Nov-98

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

**Project:** PNM Pit Remediation

**Lab Order:** 9810070

## **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: 10-Nov-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-9
<b>Work Order:</b>	9810070	<b>Client Sample ID:</b>	9810231031; 3pt. Comp. Bottom
<b>Lab ID:</b>	9810070-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	10/23/98 10:31:00 AM
		<b>COC Record:</b>	7358

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	62	25		mg/Kg	1	11/2/98

**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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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 10-Nov-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-9
<b>Work Order:</b>	9810070	<b>Client Sample ID:</b>	9810231030; 4pt. Comp. Walls
<b>Lab ID:</b>	9810070-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	10/23/98 10:30:00 AM
		<b>COC Record:</b>	7358

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	43	25		mg/Kg	1	11/2/98

**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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JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
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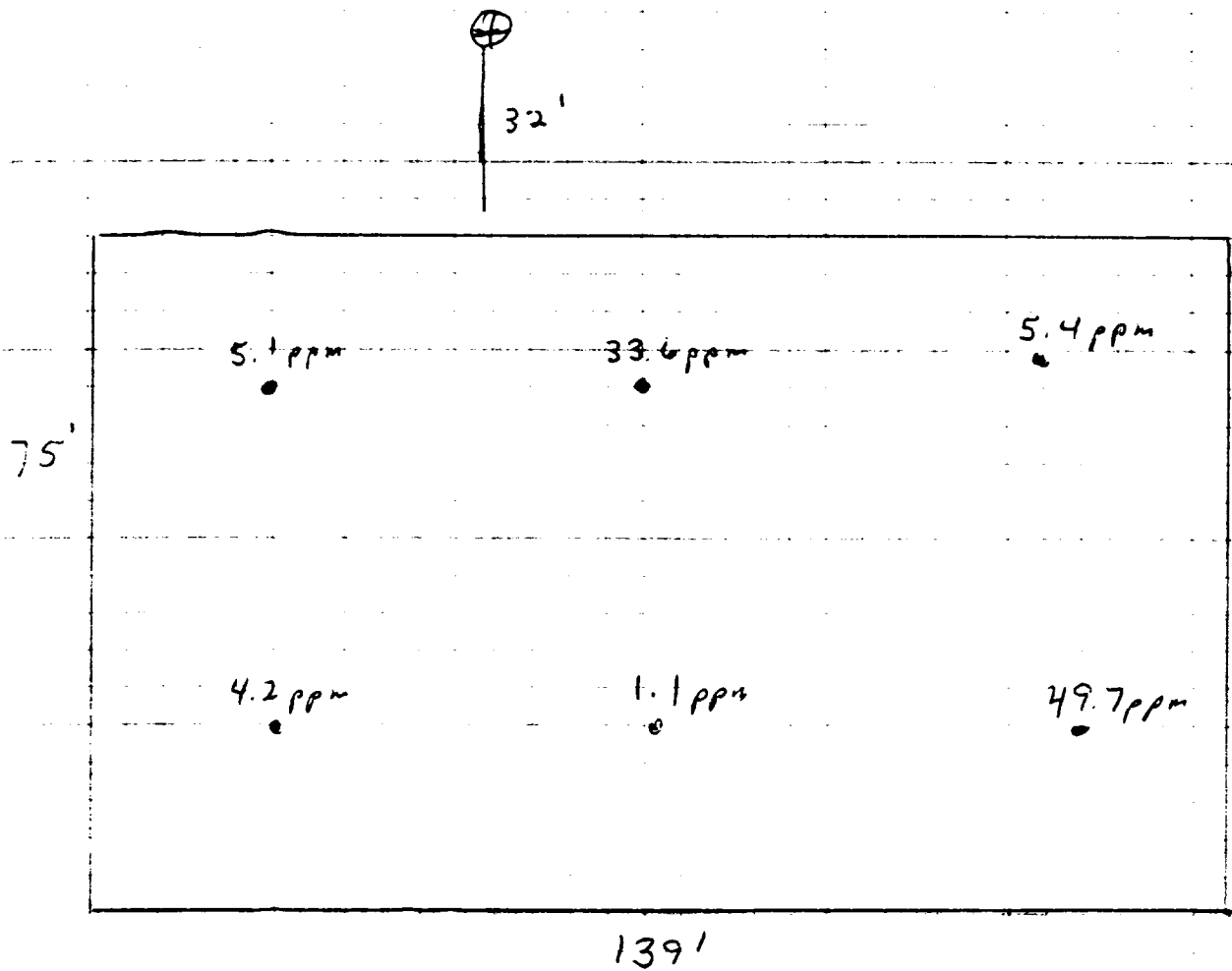
ON-SITE SOIL REMEDIATION REPORT

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>Ax. Apache 09</u>			
Location: Unit: <u>P</u>		Sec. <u>9</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>10/23/98</u>		Date Completed: <u>12/11/98</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>304</u>	
Composted <input type="checkbox"/>			
Other <input type="checkbox"/>			
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>12/9/98</u> Time <u>1025</u> Sampling Results: Field Headspace (ppm) <u>49.7</u> TPH (ppm) <u>ND</u> Method <u>8015</u> Other _____	
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>12-17-98</u>		PRINTED NAME <u>Ronald A. Dedrick</u>	
SIGNATURE <u>Roy Buenhan</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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____			
SIGNED: <u>Kurt M. Mand</u>		DATE: <u>12-21-98</u>	



A41 Apache O-9  
Sec-9 T-25N R-4W 4L P  
Conoco

# LAND FARM DRAWING



Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 15-Dec-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9812017

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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: 15-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache O-9 LF
<b>Work Order:</b>	9812017	<b>Client Sample ID:</b>	9812091025 6pt Composite
<b>Lab ID:</b>	9812017-06A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	12/9/98 10:25:00 AM
		<b>COC Record:</b>	7449

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	12/11/98

**Qualifiers:**

PQL - Practical Quantitation Limit

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J - Analyte detected below Practical Quantitation Limit

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