

**DEPUTY OIL & GAS INSPECTOR**

FEB 08 1999

**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

Operator: PNM Gas Services (L)FS Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Ax; Apache J-14 Drip

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

Pit Type: Separator      Dehydrator      Other Line Drip

Land Type: Jicarilla Apache

**Pit Location:** Pit dimensions: length 18' width 18' depth 2'  
(Attach diagram) Reference: wellhead \_\_\_\_\_ other Drip riser  
Footage from reference: 24'  
Direction from reference: Due Degrees X East of North \_\_\_\_\_  
West of South

(Vertical distance from contaminants to seasonal high water elevation of ground water)

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

(Horizontal distance to all downgradient streams having a width of at least 10 feet)

(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	( 0 points)

Yes (20 points)  
No ( 0 points)

Less than 200 feet	(20 points)
200 feet to 1,000 feet	(10 points)
Greater than 1,000 feet	( 0 points)

Less than or equal to 100 feet	(10 points)
Greater than 100 feet	(0 points)

Less than or equal to 100 feet	(10 points)
Greater than 100 feet	(0 points)

**RANKING SCORE (TOTAL POINTS) :**

Date Remediation Started: 7/15/98 Date Completed: 9/9/98

Remediation Method: Excavation X Approx. Cubic Yards 484

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 484

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Axi Apache J-14 location  
(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 head space reading.  
The pit bottom is rock.  
Excavation size: 27'x22'x22'

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 22'

Sample date 7/16/98 Sample time 0919

Sample Results

Soil: Benzene (ppm) .080 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 7.390 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 759 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND 300 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 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.

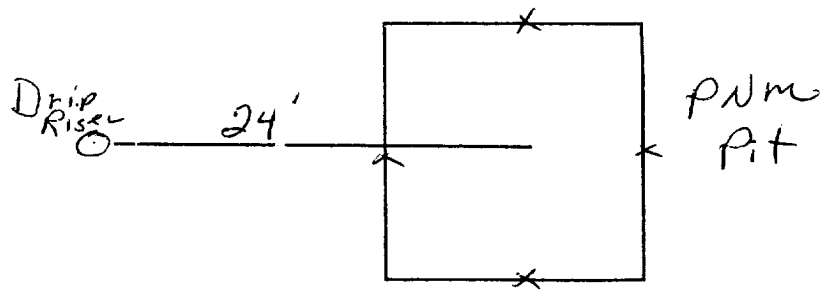
APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: Ken C Marshall DATE: 7-28-98

TX 117 Phase 2 11 Drip  
Sec. 7 T25N R5W Unit P  
WFS

# Site Drawing

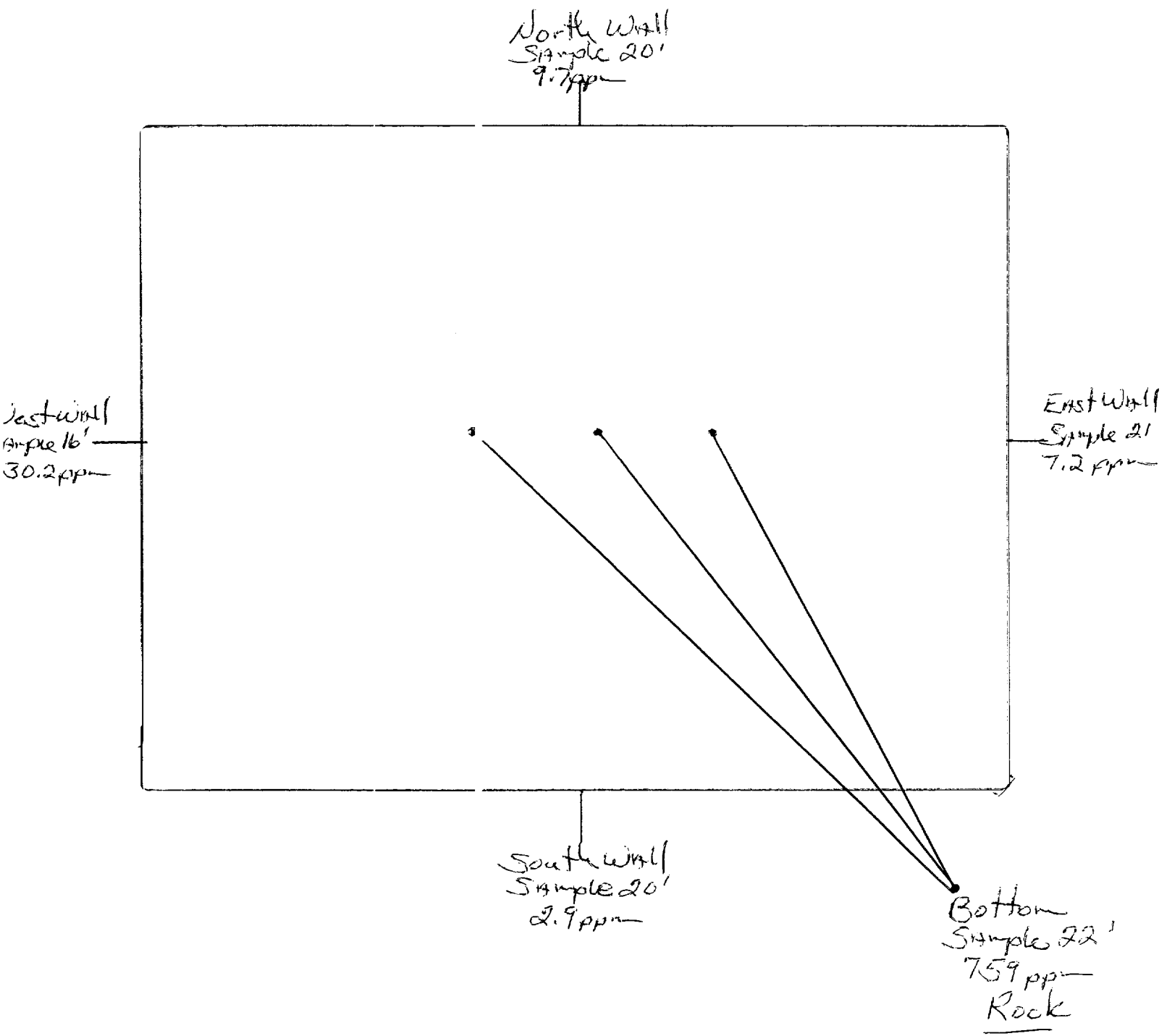
Drip  
Column  
O



121 HPIBUE 0-14 Strip  
Sec. 7 T25N R5W Unit P  
WFS

27X22X22'

# Excavation Drawing



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:** 9807045

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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

Client: PNM - Public Service Company of NM  
 Work Order: 9807045  
 Lab ID: 9807045-02A Matrix: SOIL  
 Project: PNM Pit Remediation

Client Sample Info: Axi Apache J-14 Drip  
 Client Sample ID: 9807160919; 3pt. Composite - *bottom*  
 Collection Date: 7/16/98 9:19:00 AM  
 COC Record: 7316

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	7/27/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	ND	50		µg/Kg	50	7/23/98
Toluene	18 ND	100		µg/Kg	50	7/23/98
Ethylbenzene	5 ND	50		µg/Kg	50	7/23/98
m,p-Xylene	40 ND	100		µg/Kg	50	7/23/98
o-Xylene	9 ND	50		µg/Kg	50	7/23/98
	<i>7340</i>					
	<i>7.340 ppm</i>					

**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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Phone: (505) 325-5667 Fax: (505) 325-1556

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 28-Jul-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9807045  
**Lab ID:** 9807045-01A     **Matrix:** OIL  
**Project:** PNM Pit Remediation

**Client Sample Info:** Axi Apache J-14 Drip - walls  
**Client Sample ID:** 9807160918; 4pt. Composite  
**Collection Date:** 7/16/98 9:18:00 AM  
**COC Record:** 7316

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b> T/R Hydrocarbons: C10-C28	(10) SW8015	25		mg/Kg	1	Analyst: HR 7/23/98

**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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- TECHNOLOGY - BLENDING INDUSTRY WITH THE ENVIRONMENT -

JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

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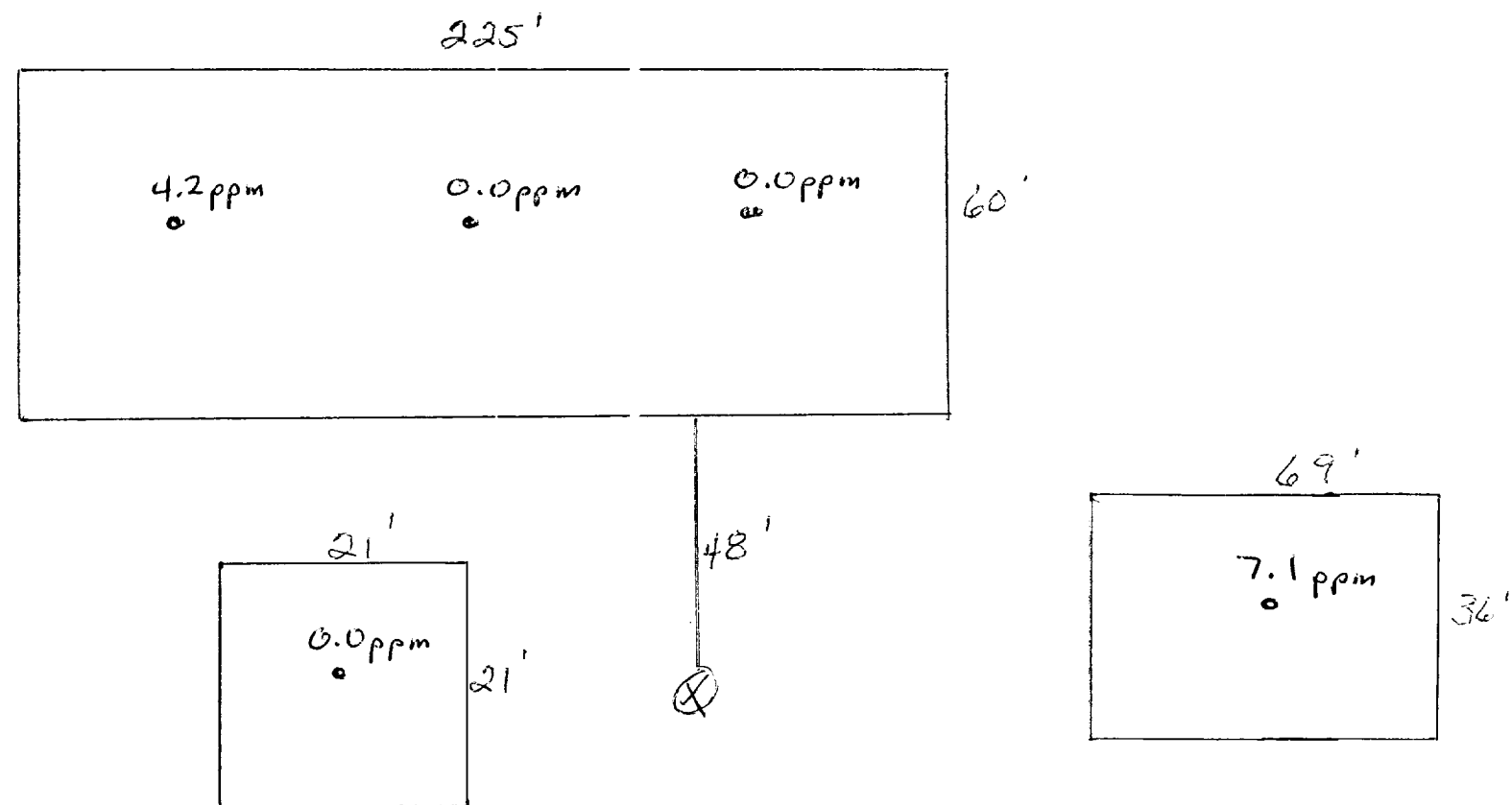
ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services ( WFS ) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: <u>Axi Apache J-14 Drip</u>	
Location: Unit: <u>P</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>7/15/98</u> Date Completed: <u>8/20/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>484</u> Composted <u>---</u> Other <u>---</u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>8/17/98</u> Time <u>0930</u> Sampling Results: Field Headspace (ppm) <u>7.1</u> TPH (ppm) <u>N/D</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>8/29/98</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>Leo C. Mc...</u>	DATE: <u>9-9-98</u>



7X1 Hpacke U-14 Drip  
2x.7 T25N R5W Unit P  
WFS

# Land form Drawing.



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 26-Aug-98

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

**Project:** PNM Pit Remediation

**Lab Order:** 9808036

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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: 26-Aug-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache J-14 Drip LF
<b>Work Order:</b>	9808036	<b>Client Sample ID:</b>	9808170930; 5pt. Comp.
<b>Lab ID:</b>	9808036-11A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	8/17/98 9:30:00 AM
		<b>COC Record:</b>	7333/34/35

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	8/20/98

**Qualifiers:**

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