

**DEPUTY OIL & GAS INSPECTOR**

## JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL -GAS  
ADMINISTRATION

FEB 08 1999

**P.O. BOX 507  
DULCE, NEW MEXICO 87528**

# 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: Axi Apache J22A Drip

**Location:** Unit: 1 Sec. 6 T. 25 N R. 5 W County Rio Arriba

**Pit Type:**      Separator      Dehydrator      Other *Manual drip blow down*

**Land Type:** Jicarilla Apache

**Pit Location:** Pit dimensions: length 18' width 18' depth 3'

(Attach diagram)      Reference:      wellhead      other *Dis blow down riser*

Footage from reference: ~~3~~ 15' RAD

Direction from reference: 8 Degrees 4 East of North 4  
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)

**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)

**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)

**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)

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)

**RANKING SCORE (TOTAL POINTS) :**

Date Remediation Started: 7-22-98 Date Completed: 11/2/98  
Remediation Method: Excavation X Approx. Cubic Yards 449.77  
(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 449.77  
Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite 28 yds to Schmitz; 117 yds on  
(i.e., landfarmed onsite, name Apache J22A-264.77 yds. on Ax.)  
and location of offsite facility) Apache J-22 A

General Description of Remedial Action:

Removed Contaminated soil from all four side walls, as to get a below 100 ppm  
head space reading. Bottom is rock. Final excavation dimensions:  
46'(N+S) x 22'(E+W) x 12'(D)

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

Final Pit Closure  
Sampling:

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

Sample Location North, East, South, and West side walls,  
and 3 point composite of bottom

Sample depth 12'

Sample date 7-22-98 Sample time 1345

Sample Results

Soil: Benzene (ppm) 1.0 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 47.7 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 1494 Ethylbenzene (ppb) \_\_\_\_\_

TPH 430 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 8-17-98

PRINTED NAME Roy Burnham Ray Haston

SIGNATURE Ray Haston

AND TITLE Environmental Technician II

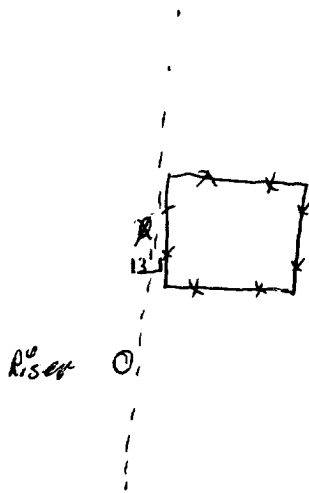
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE  
TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

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

SIGNED: Kerr C Mamm DATE: 8-18-98

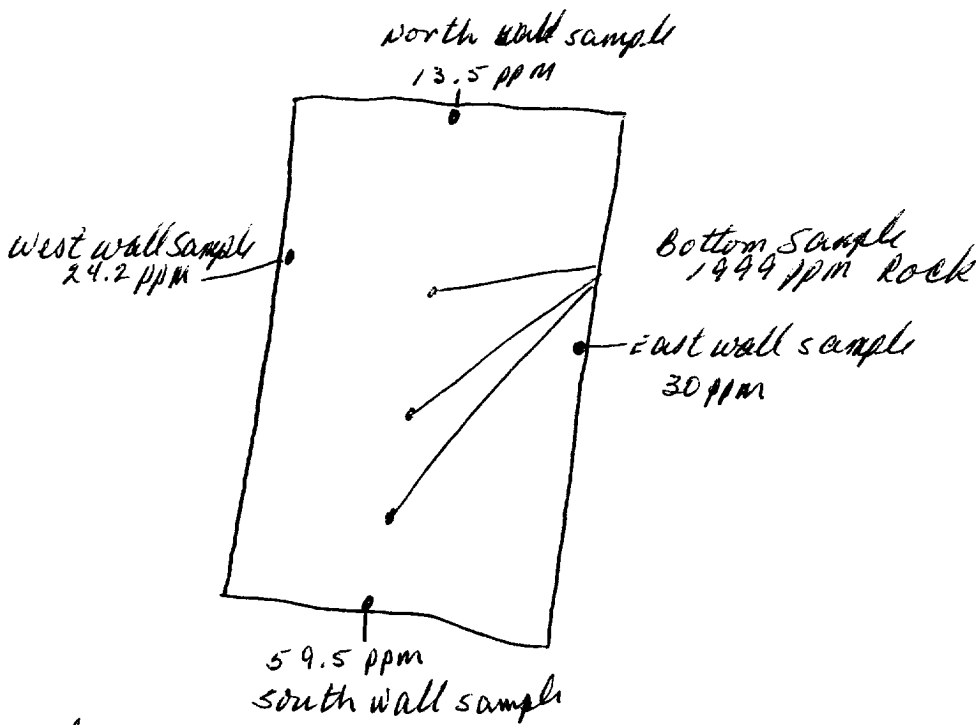
AX1 Apache SXA 2rip  
 6-25N-5W unit 0  
 Williams Field Services  
 7-22-98

N



# Excavation Sampling (7-22-98)

46'(N+S) X 22'(E+W) X 12'(D)



5' sample 1172 ppm  
 10' sample 1070 ppm  
 12' sample 1884 ppm (rock)

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 04-Aug-98

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

**Project:** PNM Pit Remediation

**Lab Order:** 9807069

## **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: 04-Aug-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9807069  
**Lab ID:** 9807069-02A     **Matrix:** SOIL  
**Project:** PNM Pit Remediation

**Client Sample Info:** Axi Apache J22A Drip  
**Client Sample ID:** 9807221345; J22A Drip Bottom (3 pt. composite)  
**Collection Date:** 7/22/98 1:45:00 PM  
**COC Record:** 7341

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	430	25		mg/Kg	1	7/30/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: DC
Benzene	1000	250		µg/Kg	250	7/27/98
Toluene	14000	500		µg/Kg	250	7/27/98
Ethylbenzene	3100	250		µg/Kg	250	7/27/98
m,p-Xylene	25000	500		µg/Kg	250	7/27/98
o-Xylene	4600	250		µg/Kg	250	7/27/98
	47,700					

**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

1 of 1

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TECHNOLOGICAL REMEDIATION INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 04-Aug-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache J22A Drip
<b>Work Order:</b>	9807069	<b>Client Sample ID:</b>	9807221335; J22A Drip Walls (wall comp.)
<b>Lab ID:</b>	9807069-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/22/98 1:35:00 PM
		<b>COC Record:</b>	7341

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	7/28/98

<b>Qualifiers:</b>	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

1 of 1

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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT LF #1

Operator: PNM Gas Services ( Williams ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Axi Apache T22A Drip  
Location: Unit: 0 Sec. 6 T. 25 N R. 5 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 7-22-98 Date Completed: 10-14-98  
Remediation Method: Landfarmed X Approx. cubic yards 117  
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: 10-12-98 Time 0735  
Sampling Results:  
Field Headspace (ppm) 0.6  
TPH (ppm) 51 Method 8015  
Other —

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

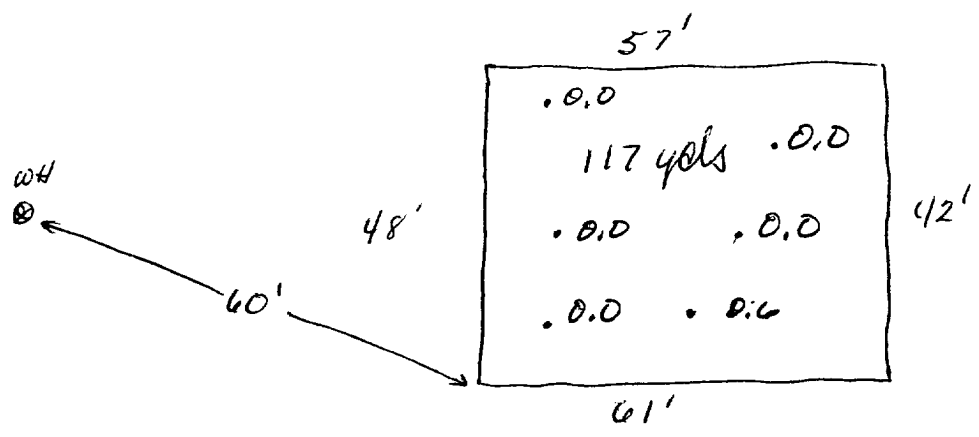
DATE 10-20-98 PRINTED NAME Roy Burnham Ray Haston  
SIGNATURE Ray Haston AND TITLE Environmental Technician II

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) use as Backfill  
SIGNED: Kec M... DATE: 11-2-98

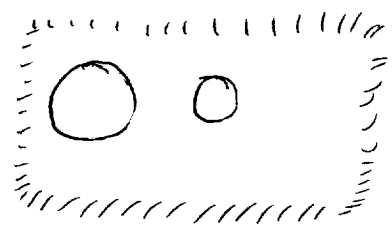
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OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 16-Oct-98

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

**Project:** Jicarilla Pit Remediation

**Lab Order:** 9810037

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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-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache J-22A Drip LF#1
<b>Work Order:</b>	9810037	<b>Client Sample ID:</b>	9810120735; 6pt. Comp.
<b>Lab ID:</b>	9810037-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/12/98 7:35:00 AM
		<b>COC Record:</b>	7512

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	51	25		mg/Kg	1	10/14/98

**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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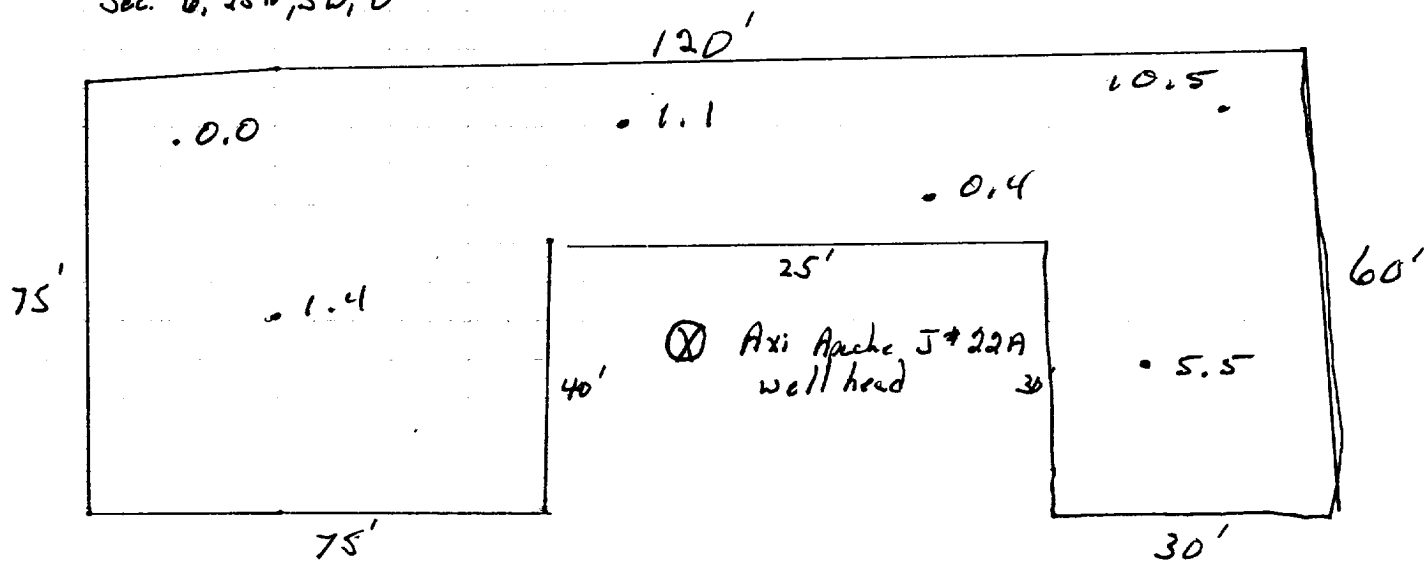
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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT LF#2

Operator: PNM Gas Services (Williams) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Axi Apache T22A Drip	
Location: Unit: 0 Sec. 6 T. 25 N R. 5 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 7-22-98 Date Completed: 10-14-98	
Remediation Method: Landfarmed X Approx. cubic yards 265	
Composted	
Other	
Depth to Ground Water: (pts.) 0	Final Closure Sampling: Sampling Date: 10-12-98 Time 0745 Sampling Results: Field Headspace (ppm) 10.5 TPH (ppm) N/D Method 8015 Other
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	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE 10-20-98 PRINTED NAME <del>Roy Burnham</del> 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) Use as Backfill	
SIGNED: Ken C. M... DATE: 11-2-98	

Axi Apache J # 22A Drip  
Conoco  
Sec. 6, 25N, 5W, 0

9/2/98



2"-12" depth  
soil vapor headspace reading = 5.5

↑  
N

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 16-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache J-22A Drip LF#2
<b>Work Order:</b>	9810037	<b>Client Sample ID:</b>	9810120745; 6pt. Comp.
<b>Lab ID:</b>	9810037-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/12/98 7:45:00 AM
		<b>COC Record:</b>	7512

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

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
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