

*Henry J. Trust*  
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507  
DULCE, NEW MEXICO 87528

04  
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

*Approved*  
**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services ( Conoco ) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache "J" #18A

Location: Unit: P Sec. 8 T. 25 N R. 5 W County Rio Arriba

Pit Type: Separator X Dehydrator      Other     

Land Type: Jicarilla Apache

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

(Attach diagram) Reference: wellhead X other     

Footage from reference: 103'

Direction from reference: 25° Degrees      East North X  
X 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) 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) 0

**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):** 0

Date Remediation Started: 7/15/98 Date Completed: 9/23/98  
Remediation Method: Excavation ☒ Approx. Cubic Yards 825 yds  
(Check all appropriate sections) Landfarmed ☒ Amount Landfarmed (cubic yds): 825 yds  
Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Excavated pit 33' x 45' x 15' Removed contaminated soil from  
Four walls as to get a below 100ppm head space reading.  
At 15' depth had rock and sampled

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

Final Pit Closure  
Sampling:

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

Sample Location All 4 walls @ 10' depth  
Bottom 3 ft. at 15' depth  
Sample depth 10' & 15'  
Sample date 7/15/98 Sample time 1515 & 1525

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) \_\_\_\_\_  
Total BTEX (ppm) 7.98 ppm Toluene (ppb) \_\_\_\_\_  
Field headspace (ppm) 1948 Ethylbenzene (ppb) \_\_\_\_\_  
TPH 590 ppm Method 8015 Total Xylenes (ppb) \_\_\_\_\_

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (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 8/3/98

PRINTED NAME

Gary Cook  
~~Roy Burnham~~

SIGNATURE

Gary Cook

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 ☒ NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED:

Kenneth M...

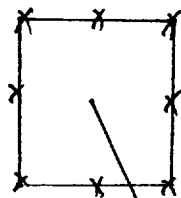
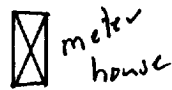
DATE:

8-18-98

Axi Apache "J" #18A  
 Conoco  
 Sec. 8, 25N, 5W, P

7/15/98

Start of excavation:



SE  
P

103'



Well Head

End of excavation

33' x 45' x 15'

North wall

@ 10' = 14.2 ppm

33'

West wall  
 @ 10' = 16.3 ppm

hard

15' depth  
 954  
 Sandstone layer

East wall

@ 10' = 34.6 ppm

45'

926 ppm

5' sample = 942 ppm  
 10' sample = 1354 ppm  
 15' sample = 954 ppm

Bottom sample  
 @ 15' = 1448 ppm  
 3 pt comp.

11' South wall



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:** 9807052

## **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: 28-Jul-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9807052  
**Lab ID:** 9807052-02A **Matrix:** SOIL  
**Project:** PNM Pit Remediation

**Client Sample Info:** Axi Apache "J" #18A  
**Client Sample ID:** 9807151525; Bottom @ 15ft.  
**Collection Date:** 7/15/98 3:25:00 PM  
**COC Record:** 7315

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	590	25		mg/Kg	1	7/27/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: DC
Benzene	ND	100		µg/Kg	100	7/22/98
Toluene	1100	200		µg/Kg	100	7/22/98
Ethylbenzene	680	100		µg/Kg	100	7/22/98
m,p-Xylene	5100	200		µg/Kg	100	7/22/98
o-Xylene	1100	100		µg/Kg	100	7/22/98

7980  
7.980 ppm

**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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- THE COMPANY IS NOT RESPONSIBLE FOR THE USE OF THIS REPORT

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 28-Jul-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache "J" #18A
<b>Work Order:</b>	9807052	<b>Client Sample ID:</b>	9807151515; Walls @ 10ft.
<b>Lab ID:</b>	9807052-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/15/98 3:15:00 PM
		<b>COC Record:</b>	7315

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	7/23/98

<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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- Technology in Environmental Monitoring with the Environment -

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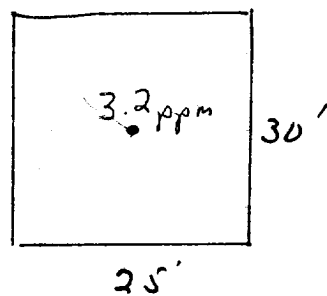
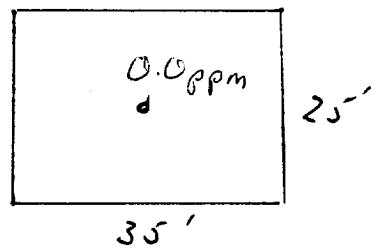
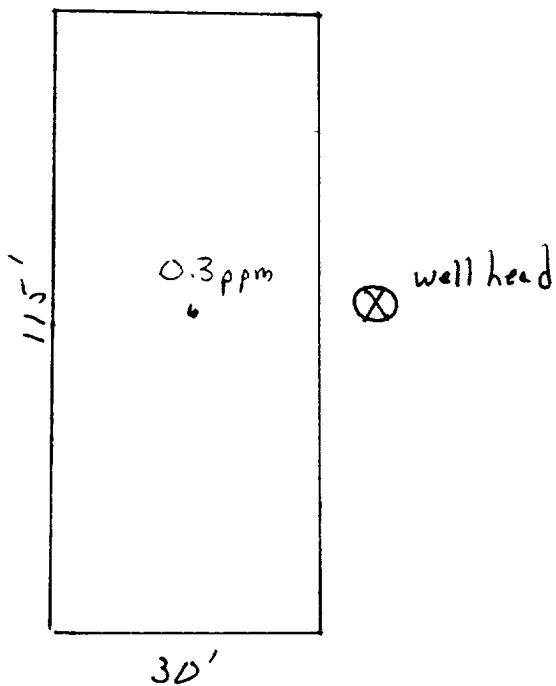
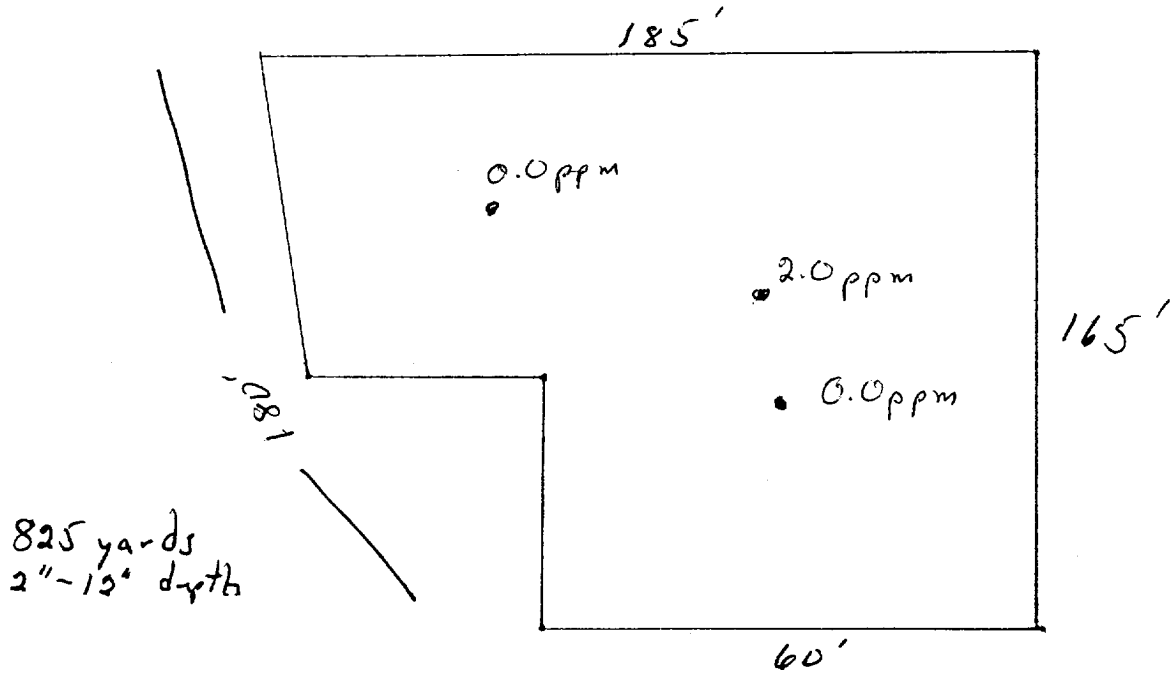
ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> <u>PNM Gas Services ( Conduct )</u> <b>Telephone:</b> <u>324-3764</u>	
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>	
<b>Facility or Well Name:</b> <u>Axi Apache "J" # 18A</u>	
<b>Location:</b> Unit: <u>P</u> Sec. <u>8</u> T. <u>25 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>	
<b>Land Type:</b> <u>Jicarilla Apache</u>	
<b>Date Remediation Started:</b> <u>7/15/98</u> <b>Date Completed:</b> <u>9/4/98</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>825</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Depth to Ground Water:</b> (pts.) <u>0</u> <b>Distance to an Ephemeral Stream:</b> (pts.) <u>0</u> <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>0</u> <b>Wellhead Protection Area:</b> (pts.) <u>0</u> <b>Distance to Surface Water:</b> (pts.) <u>0</u> <b>Ranking Score (Total Points):</b> <u>0</u>	<b>Final Closure Sampling:</b> <b>Sampling Date:</b> <u>9/1/98</u> <b>Time</b> <u>1519</u> <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> <u>3.2</u> <b>TPH (ppm)</b> <u>ND</u> <b>Method</b> <u>8015</u> <b>Other</b> _____
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p><b>DATE</b> <u>9/13/98</u> <b>PRINTED NAME</b> <u>Roy Burnham</u></p> <p><b>SIGNATURE</b> <u>Roy Burnham</u> <b>AND TITLE</b> <u>Environmental Technician II</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p> <p><b>APPROVED: YES</b> <input checked="" type="checkbox"/> <b>NO</b> <input type="checkbox"/> <b>(REASON)</b> <u>use as Backfill</u></p> <p><b>SIGNED:</b> <u>Kev C. Mammill</u> <b>DATE:</b> <u>9-23-98</u></p>	

Axi Apache "J" #18A  
Conoco  
Sec. 8, 25N, 5W, P

7/16/98

Land Farmed: On location





OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 10-Sep-98

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

**Project:** PNM Pit Remediation

**Lab Order:** 9809002

## **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-Sep-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Axi Apache J-18A LF
<b>Work Order:</b>	9809002	<b>Client Sample ID:</b>	9809011519; 6pt. Comp.
<b>Lab ID:</b>	9809002-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	9/1/98 3:19:00 PM
		<b>COC Record:</b>	7437

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	9/4/98

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