

Henry S. Frost
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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (*CONACR*) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache N-11

Location: Unit: P Sec. 12 T. 25 N R. 4 W County Rio Arriba

Pit Type:	Separator	Dehydrator	Other
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Land Type: Jicarilla Apache

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

(Attach diagram) Reference: wellhead χ other

Footage from reference: 60'

Direction from reference: 70° Degrees X East of North _____
West of South X

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)	<u>0</u>

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)

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)	6

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)

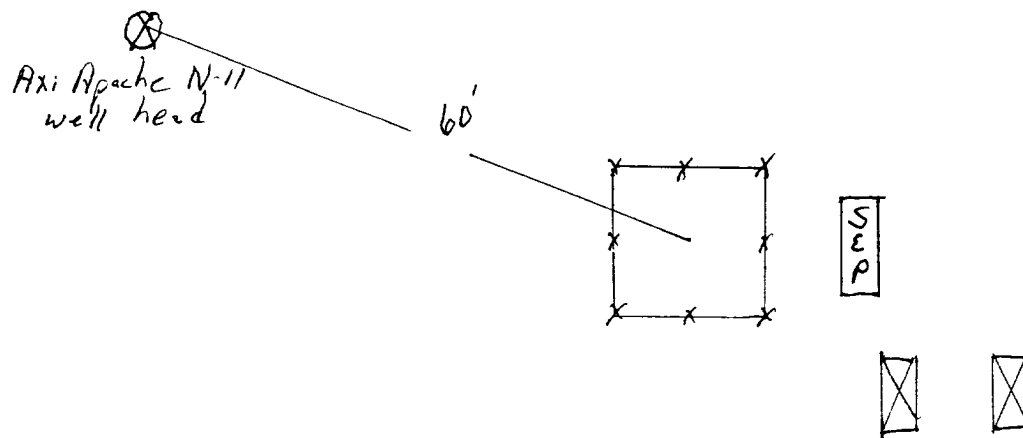
RANKING SCORE (TOTAL POINTS) : 

Date Remediation Started: <u>11/19/98</u>		Date Completed: <u>12/28/98</u> 11/19/98 RAD	
Remediation Method:	Excavation <u>X</u>	Approx. Cubic Yards	<u>105</u>
	Landfarmed <u>X</u>	Amount Landfarmed (cubic yds):	<u>105</u>
	Other _____		
(Check all appropriate sections)			
Remediation Location:	Onsite <u>X</u>	Offsite	_____
(i.e., landfarmed onsite, name and location of offsite facility)			
General Description of Remedial Action:			
<u>Removed contaminated soil from all 4 side walls to a</u>			
<u>below 100 ppm head space reading.</u>			
<u>Bottom at 10' depth clean with a below 100 ppm head space reading.</u>			
<u>Excavated pit 15' x 19' x 10'</u>			
Ground Water Encountered: No <u>X</u> Yes _____ Depth _____			
Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample Location <u>North wall, East wall, South wall, West wall</u>		
	Sample depth <u>Bottom 3 point composite</u>		
	Sample date <u>11/19/98</u> Sample time <u>0825</u>		
	Sample Results		
	Soil: Benzene (ppm) _____		Water: Benzene (ppb) _____
	Total BTEX (ppm) _____		Toluene (ppb) _____
	Field headspace (ppm) <u>14.6 ppm</u>		Ethylbenzene (ppb) _____
	TPH <u>NO</u> ppm Method <u>TPH-8015</u>		Total Xylenes (ppb) _____
	Ground Water Sample: Yes _____ No <u>X</u> (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 <u>11/19/98</u>		PRINTED NAME <u>Gary Cook</u>	
SIGNATURE <u>Gary Cook</u>		AND TITLE <u>Environmental Technician III</u>	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO _____ (REASON): _____			
SIGNED: <u>Kee C Mando</u>		DATE: <u>12-15-98</u>	

Axi Apache N-11
Cuvaco
Sec. 12, 25N, 4W, P

11/19/98

Site diagram:



Not to Scale

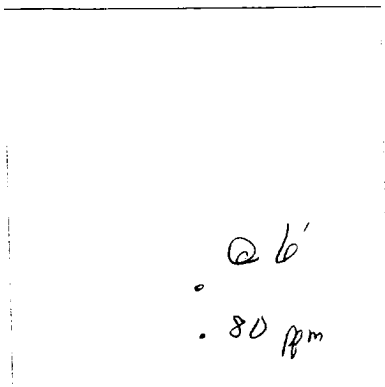
Axi Apache N-11

Cuvoco

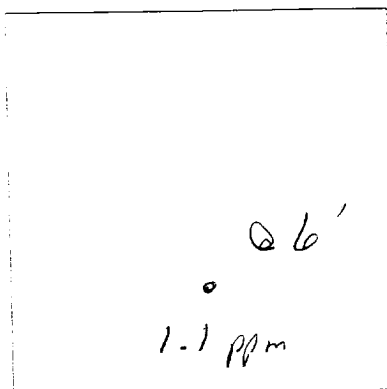
Sec 14, 25N, 4W, P

11/19/98

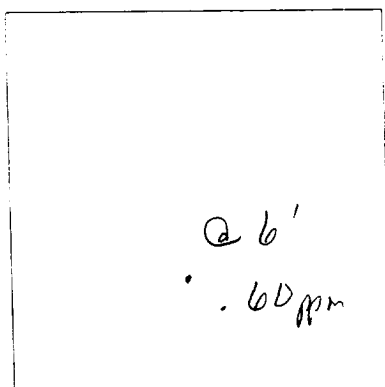
North Wall



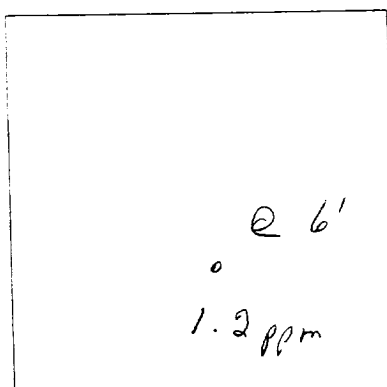
South Wall



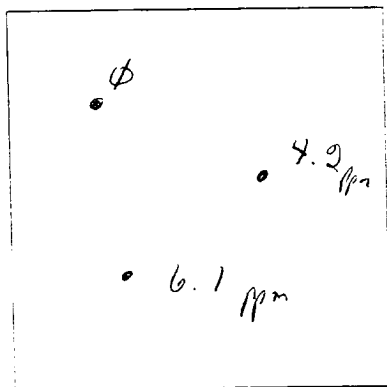
East Wall



West Wall



Bottom



@ 10'
sand/clay

3 pt. comp.
head space reading = 14.6 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 03-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811063

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: 03-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-11
Work Order:	9811063	Client Sample ID:	9811190825; Bottom @ 10ft.
Lab ID:	9811063-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/19/98 8:25:00 AM
		COC Record:	7395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/1/98

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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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-11
Work Order:	9811063	Client Sample ID:	9811190830; Walls @ 6ft.
Lab ID:	9811063-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/19/98 8:30:00 AM
		COC Record:	7395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/1/98

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

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION 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>Axi Apache N-11</u>	
Location:	Unit: <u>P</u> Sec. <u>12</u> T. <u>25</u> N R. <u>4</u> W County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>11-19-98</u> Date Completed: <u>11-19-98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>105</u> Composted _____ Other _____	
Depth to Ground Water: (pts.) <u>0</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>	Final Closure Sampling: Sampling Date: <u>12/10/98</u> Time <u>0750</u> Sampling Results: Field Headspace (ppm) <u>16.9 ppm</u> TPH (ppm) <u>45</u> Method <u>TPH-8015</u> Other _____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>12/22/98</u> PRINTED NAME <u>Gary Cook</u>	
SIGNATURE <u>Gary Cook</u> AND TITLE <u>Environmental Technician III</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 _____ (REASON) <u>use old Backfill</u>	
SIGNED: <u>Ken C M...ll</u> DATE: <u>12-28-98</u>	

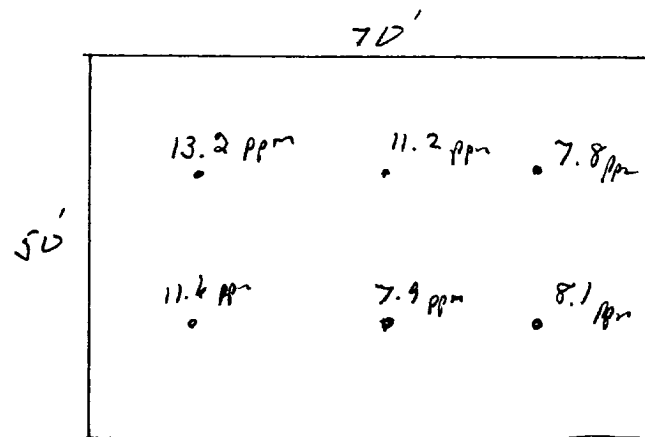
Axi Apache N-11
Conoco
Sec. 12, 25N, 4W, P

11-19-98

↑
N

Land farm: On location
105 yards

⊗ Axi Apache N-11
well head



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9812026

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: 21-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-11 LF
Work Order:	9812026	Client Sample ID:	9812100750; 6pt. Composite
Lab ID:	9812026-04A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/10/98 7:50:00 AM
		COC Record:	7447

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	45	25		mg/Kg	1	12/18/98

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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