

DEPUTY OIL & GAS INSPECTOR

ENVIRONMENTAL PROTECTION OFFICE

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

P.O. BOX 507
DULCE, NEW MEXICO 87528

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 m-6

Location: Unit: ~~14~~ Sec. 14 T. 20N R. 4 W County Rio Arriba

Pit Type: Separator χ Dehydrator Other Drip

Land Type: Jicarilla Apache

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

(Attach diagram) Reference: wellhead X other _____

Footage from reference: 120'

Direction from reference: 20° Degrees λ East of North _____
West of South λ

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) 0
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) 0

RANKING SCORE (TOTAL POINTS) :

Date Remediation Started: 11/18/98 Date Completed: 12/28/98 RAD
11/18/98

Remediation Method: Excavation X Approx. Cubic Yards 212

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 212

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 4 side walls to 2
below 100 ppm headspace reading.
Bottom is rock at 6' depth
Excavated pit 29'X33'X6'

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 wall, East wall, South wall, West wall
Bottom 3 point composite

Sample depth 6 ft.

Sample date 11/18/98 Sample time 1330

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) _____

Total BTEX (ppm) 10.15 ppm Toluene (ppb) _____

Field headspace (ppm) 1161 ppm Ethylbenzene (ppb) _____

TPH 170 ppm Method TPH-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 11/18/98 PRINTED NAME Gary Cook

SIGNATURE Gary Cook AND TITLE Environmental Technician III

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: Karen C Mammill DATE: 12-15-98

Axi Apache M-6
Conoco
Sec. 4, 25N, 4W, A

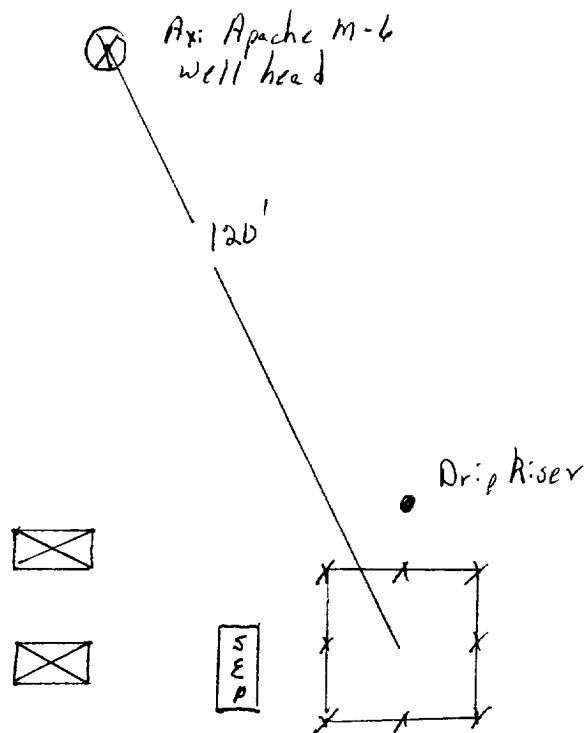
11/18/98

↑
N

Site drawing:



SEP

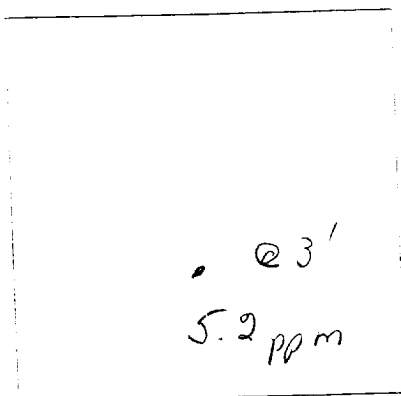


not to scale

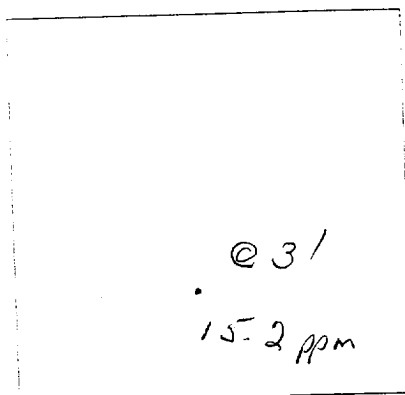
Ax. Apache
Conoco
Sec. 4, 25N, 4W, A

11/18/98

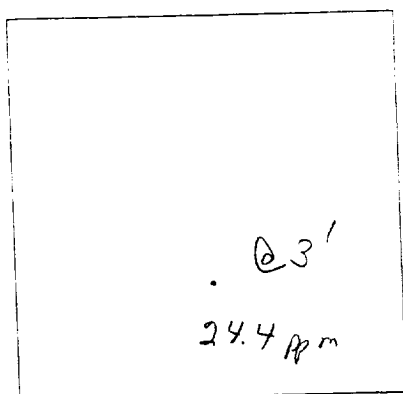
North Wall



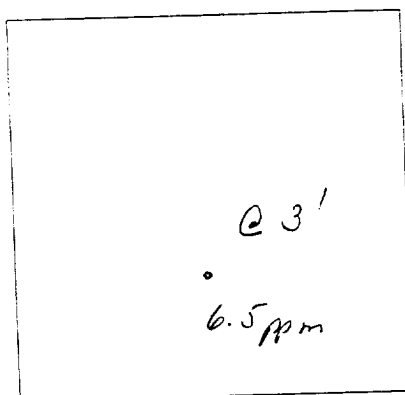
South Wall



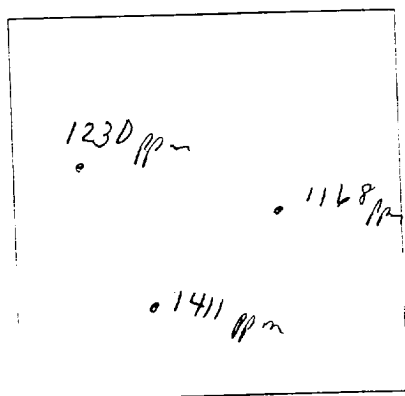
East Wall



West Wall



Bottom



@ 6'

3 point composite : 1161 ppm
head space reading

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: 9811064

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
Work Order: 9811064
Lab ID: 9811064-01A **Matrix:** SOIL
Project: Jicarilla Pit Remediation

Client Sample Info: Axi Apache M-6
Client Sample ID: 9811181330; Bottom @ 6ft.
Collection Date: 11/18/98 1:30:00 PM
COC Record: 7365

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	170	25		mg/Kg	1	12/2/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	50		µg/Kg	50	11/25/98
Toluene	510	100		µg/Kg	50	11/25/98
Ethylbenzene	840	50		µg/Kg	50	11/25/98
m,p-Xylene	7200	100		µg/Kg	50	11/25/98
o-Xylene	1600	50		µg/Kg	50	11/25/98

10150
10.150 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
Surrogate - 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 M-6
Work Order:	9811064	Client Sample ID:	9811181335; Walls @ 3ft.
Lab ID:	9811064-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/18/98 1:35:00 PM
		COC Record:	7365

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	29	25		mg/Kg	1	12/2/98

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
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>Ax: Apache M-6</u>			
Location:		Unit: <u>A</u> Sec. <u>4</u> T. <u>25 N</u> R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>11-18-98</u>		Date Completed: ¹²⁻¹⁵ <u>12-18-98</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>212</u>	
Composted <u> </u>		Other <u> </u>	
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>12/9/98</u> Time <u>1340</u> Sampling Results: Field Headspace (ppm) <u>53.6</u> TPH (ppm) <u>200</u> Method <u>TPH-800</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>			
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p>			
DATE <u>12/21/98</u>		PRINTED NAME <u>Roy Burnham Gary Cook</u>	
SIGNATURE <u>Mary Cook</u>		AND TITLE <u>Environmental Technician II/</u>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p>			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Ker C McLeod</u>		DATE: <u>12-28-98</u>	

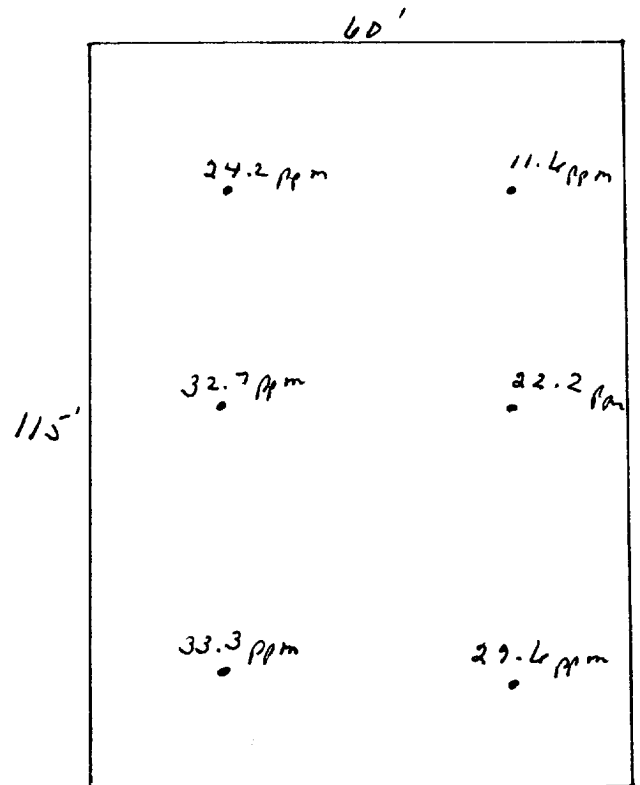
Axi Apache M-6
Conoco
Sec. 4, 25N, 4W

11-18-98

↑
N

Landfarmed: on location

⊗ Axi Apache M-6
well head



2"-12" depth
soil vapor head space = 53.6 ppm

Not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9812019

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: 17-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache M-6 LF
Work Order:	9812019	Client Sample ID:	9812091340 6pt Composite
Lab ID:	9812019-06A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/9/98 1:40:00 PM
		COC Record:	7451

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	200	25		mg/Kg	1	12/15/98

Backfill pit with clean soil from borrow pit

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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