

OK

Denny S. Felt
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE

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 (*Conoco*) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: *Axi Apache IV-3*

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

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: *Jicarilla Apache*

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

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: *45'*

Direction from reference: *10°* Degrees ☒ East North ☐
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)	<i>0</i>

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)	<i>0</i>

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)	<i>0</i>

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)	<i>0</i>

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)	<i>0</i>

RANKING SCORE (TOTAL POINTS): *0*

Date Remediation Started:

11/11/98

Date Completed:

12/28/98 RAD
11/12/98

Remediation Method:

Excavation

X

Approx. Cubic Yards

992(Check all
appropriate
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

992

Other _____

Remediation Location:

Onsite

X

Offsite

Ax: Apache N-11A(i.e., landfarmed onsite, name
and location of offsite facility)Sec. 18, 28 N. 4 W. 13

General Description of Remedial Action:

Removed contaminated soil from 4 side wells to a below
100 ppm headspace reading.
Bottom @ 31' depth cleaching clay sampled 3 points.
Excavated pit 27' x 32' x 31'

Ground Water Encountered:

No

X

Yes

Depth

Final Pit Closure

Sampling:

Sample Location

North wall, East wall, South wall, West wall
Bottom 3 point composite(if multiple samples, attach
sample result and diagram of
sample locations and
depths.)

Sample depth

31'

Sample date

11/12/98

Sample time

1515

Sample Results

Soil: Benzene (ppm)

0.08

Water: Benzene (ppb)

Total BTEX (ppm)

4.95

Toluene (ppb)

Field headspace (ppm)

1368

Ethylbenzene (ppb)

TPH

NO

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

11/12/98

PRINTED NAME

Gary Cook

SIGNATURE

Gary Cook

AND TITLE

Environmental Technician IIIAFTER 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. Menzies

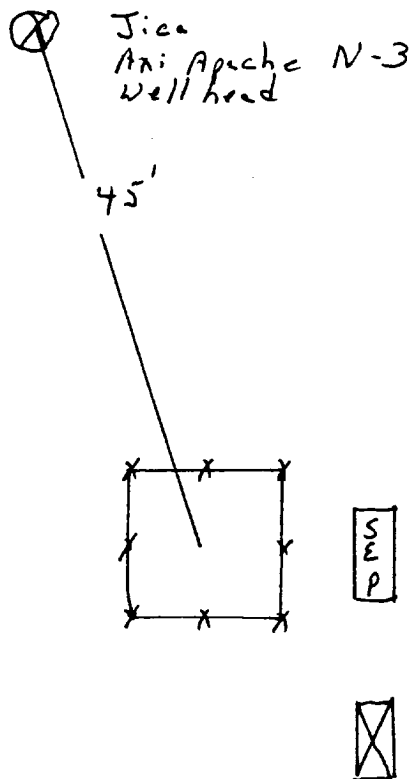
DATE:

12-15-98

Axi Apache N-3
CONOCO
Sec. 12, 25N, 4W, A

11/11/98

site diagram:



not to scale

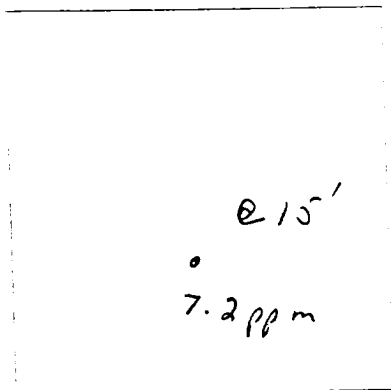
Axi Apache N-3

11/12/98

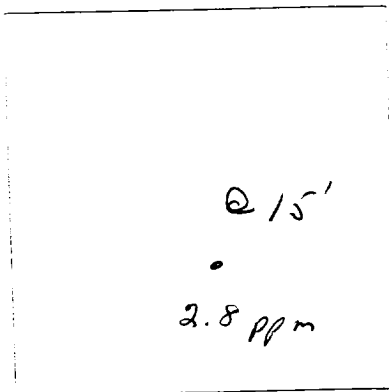
CONVCD

Sec. 12, 25N, 4W, A

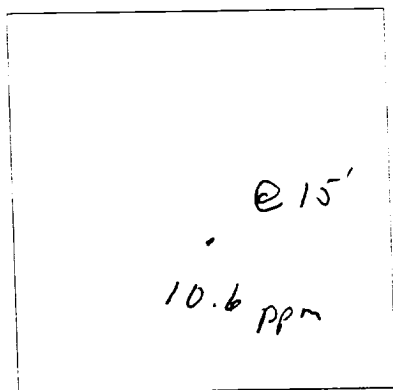
North Wall



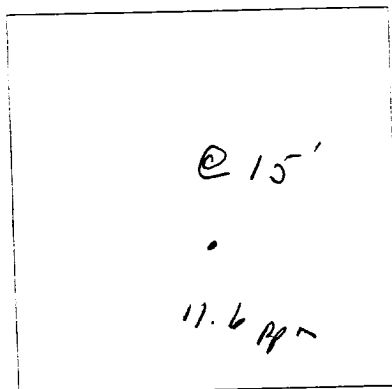
South Wall



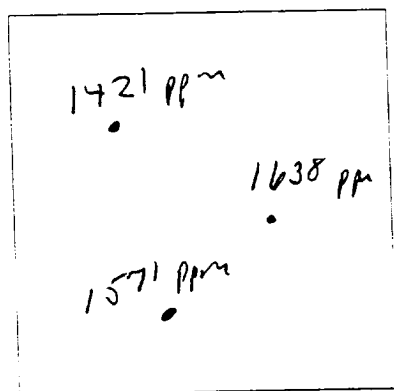
East Wall



West Wall



Bottom



@ 31'
clayey clay

3 pt. composite = 1368 ppm
soil upon hard space

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 24-Nov-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811047

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: 24-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-3
Work Order:	9811047	Client Sample ID:	9811121515; Bottom @ 31ft.
Lab ID:	9811047-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/12/98 3:15:00 PM
		COC Record:	7426

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/20/98
BTEX						
		SW8020A				Analyst: DC
Benzene	80	50		µg/Kg	50	11/15/98
Toluene	830	100		µg/Kg	50	11/15/98
Ethylbenzene	360	50		µg/Kg	50	11/15/98
m,p-Xylene	3000	100		µg/Kg	50	11/15/98
o-Xylene	680	50		µg/Kg	50	11/15/98

4950
4.950 ppm

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-3
Work Order:	9811047	Client Sample ID:	9811121520; Walls @ 15ft.
Lab ID:	9811047-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/12/98 3:20:00 PM
		COC Record:	7426

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	34	25		mg/Kg	1	11/17/98

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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SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Conoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Ax: Apache N-3
Location: Unit: A Sec. 12 T. 25 N R. 4 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 11-12-98 Date Completed: ~~11-12-98~~ 12/28/98
Remediation Method: Landfirmed X Approx. cubic yards 992
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: 12/9/98 Time 1209
Sampling Results:
Field Headspace (ppm) 9.8 ppm
TPH (ppm) NO Method TPH-8012
Other

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

DATE 12/21/98 PRINTED NAME ~~Roy Busham~~ Garry Cook
SIGNATURE *Garry Cook* 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: *K. C. Mendel* DATE: 12-28-98

Axi Apache N-3

Conoco

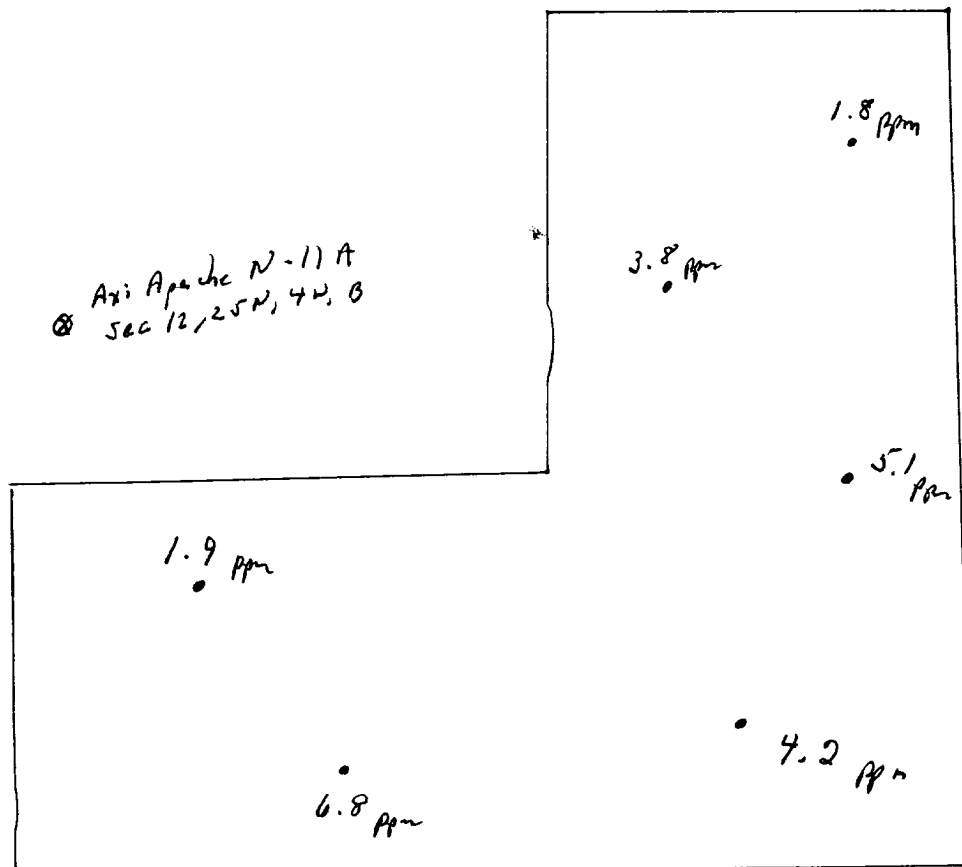
Sec. 12, 25N, 4W, A

11/12/98

↑
N

Land farmed: Axi Apache N-11A
Sec. 12, 25N, 4W, B

yardage: 992 yds



2"-12" depth

soil vapor headspace: 9.8 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 N-3 LF
Work Order:	9812019	Client Sample ID:	9812091209 6pt Composite
Lab ID:	9812019-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/9/98 12:09:00 PM
		COC Record:	7451

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/14/98

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
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