

Lenny G. Frost
DEPUTY OIL & GAS INSPECTOR

P.O. BOX 507
DULCE, NEW MEXICO 87528

NS-Ex

FEB 08 1999

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Axi Apache N # 13A

Location: Unit: I Sec. 2 T. 25 N R. 4 W County Rio Arriba

Pit Type:	Separator	χ	Dehydrator	Other
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Land Type: Jicarilla Apache

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

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 100'

Direction from reference: 20° Degrees χ East North χ

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) :

10

Date Remediation Started: 11/5/98 Date Completed: 12/15/98 RAD
11/6/98 RAD
Remediation Method: Excavation X Approx. Cubic Yards 930 964
(Check all appropriate sections) Landfarmed _____ Amount Landfarmed (cubic yds): 630
Other TNT Landfarm - 630 cu. yds
Overburden - 334 cu. yds
Remediation Location: Onsite _____ 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
below ~ 100 ppm headspace reading.
Bottom at 30' depth sample 3 points
Excavated pit 31' X 28' X 30'

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 30'

Sample date 11/6/98 Sample time 0945

Sample Results

Soil: Benzene (ppm) 1.7 ppm Water: Benzene (ppb) _____

Total BTEX (ppm) 98.8 ppm Toluene (ppb) _____

Field headspace (ppm) 1884 Ethylbenzene (ppb) _____

TPH 220 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 11/6/98

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): R-A. Attached

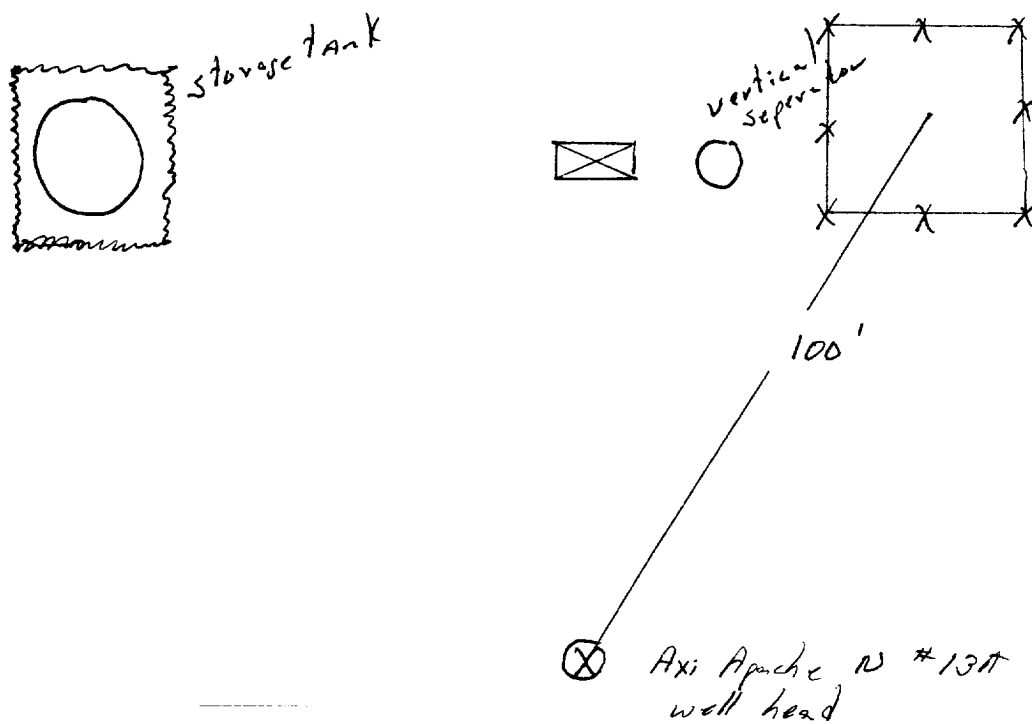
SIGNED: K. Cymela DATE: 12-15-98

Axi Apache N #13A
Conoco
Sec. 2, 25N, 4W, I

11/5/98

↑
N

site drawing:



SEP

Not to Scale

~~Tree Hill~~

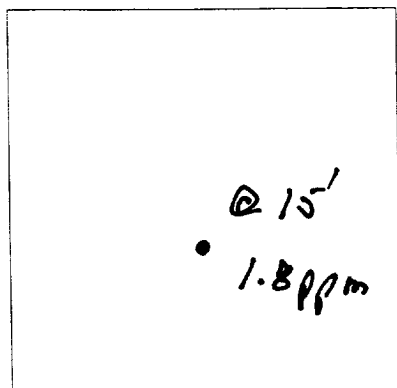
AXi Apache N#13A

Conoco

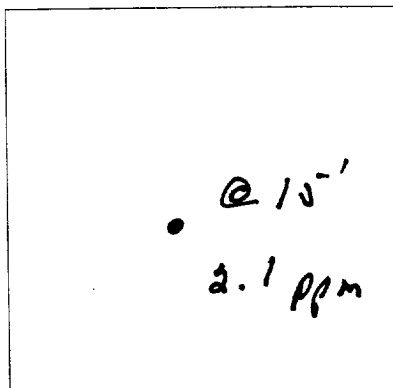
Sec. 2, 25N, 4W, I

11/5/98

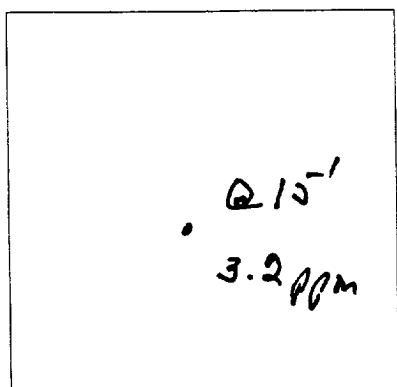
North Wall



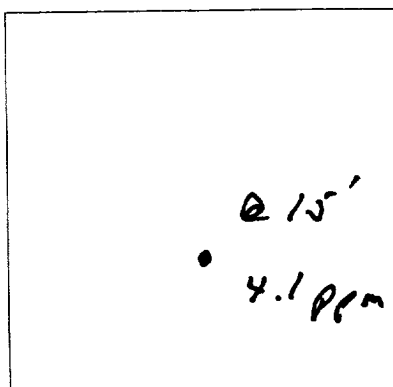
South Wall



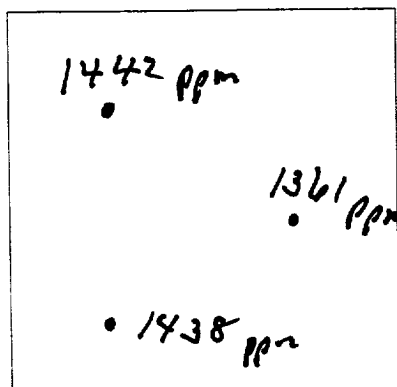
East Wall



West Wall



Bottom



@ 30' depth

3 point comp. 1884 ppm
head piece reading

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 16-Nov-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811026

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.

**ANALYTICAL REPORT**

Date: 16-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N #13A
Work Order:	9811026	Client Sample ID:	9811060945 Bottom @ 30 ft
Lab ID:	9811026-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/6/98 9:45:00 AM
		COC Record:	7421

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	220	25		mg/Kg	1	11/15/98
BTEX		SW8020A				Analyst: DC
Benzene	1400	500		µg/Kg	500	11/10/98
Toluene	32000	1000		µg/Kg	500	11/10/98
Ethylbenzene	6800	500		µg/Kg	500	11/10/98
m,p-Xylene	49000	1000		µg/Kg	500	11/10/98
o-Xylene	9600	500		µg/Kg	500	11/10/98

98.800 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: 16-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N #13A
Work Order:	9811026	Client Sample ID:	9811060950 Walls @ 15 ft
Lab ID:	9811026-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/6/98 9:50:00 AM
		COC Record:	7421

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/15/98

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1



Environmental Services

Well Name:	Axi Apache N #13A
Well Legals:	Unit 1, Sec 2, T25N, R4W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Axi Apache N #13A well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 339 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Schmitz Ranch, NM series 7.5 minute topographic map.)
2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
3. PNM excavated 930 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
4. The excavation was terminated at a depth of 30 feet. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Axi Apache N #13A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.