

Risk
BTEX
NO

Dennis J. Faust
DEPUTY OIL & GAS INSPECTOR

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

FEB 11 1993

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (<u>WFS</u>)		Telephone: <u>324-3764</u>
Address: <u>603 W. Elm Street Farmington, NM 87401</u>		
Facility or Well Name: <u>Axi Apache N #13 A Orip</u>		
Location:	Unit: <u>I</u>	Sec. <u>2</u> T. <u>25 N</u> R. <u>4 W</u> County <u>Rio Arriba</u>
Pit Type:	Separator <u> </u>	Dehydrator <u> </u> Other <u>Orip</u>
Land Type:	<u>Jicarilla Apache</u>	

Pit Location:	Pit dimensions:	length <u>20'</u>	width <u>20'</u>	depth <u>3'</u>
(Attach diagram)	Reference:	wellhead <u>X</u>	other <u> </u>	
	Footage from reference:	<u>280'</u>		
	Direction from reference:	<u>35°</u> Degrees	East <u> </u>	North <u> </u>
			<u>X</u> West of	South <u>X</u>

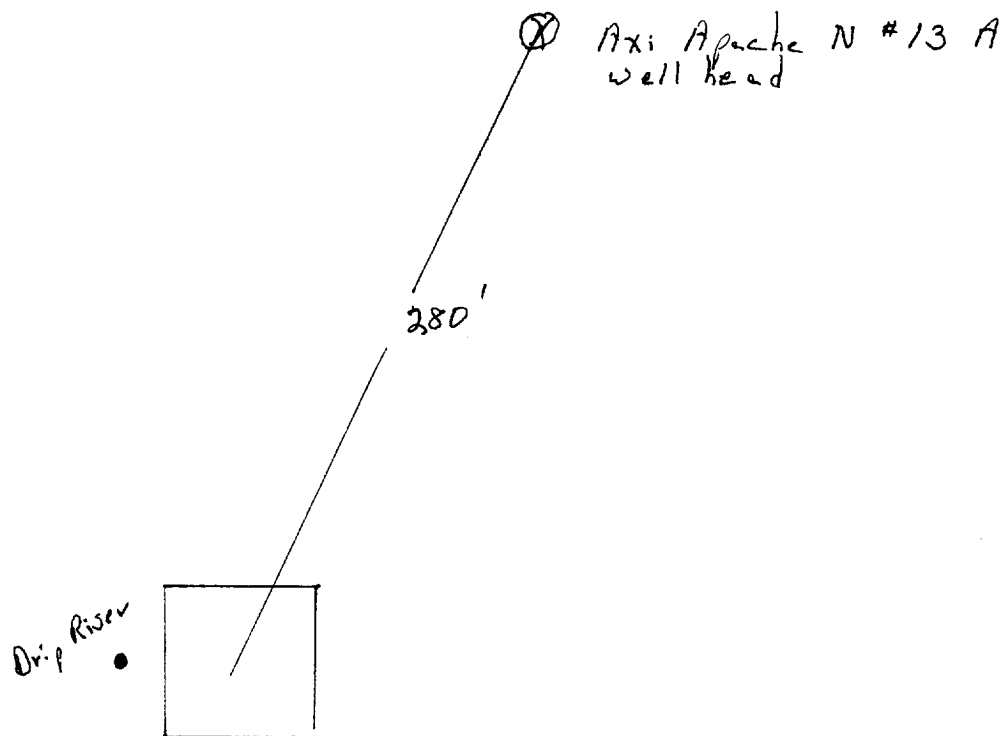
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	<u>10</u>
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 Greater than 100 feet	(10 points) (0 points)	<u>10</u>
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 Greater than 100 feet	(10 points) (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>10</u>

Date Remediation Started: <u>11/6/98</u>		Date Completed: <u>12/15/98 RAO</u> <u>11/11/98</u>	
Remediation Method: <small>(Check all appropriate sections)</small>	Excavation <u>X</u>	Approx. Cubic Yards	<u>995</u>
	Landfarmed _____	Amount Landfarmed (cubic yds):	<u>656 RAO</u> <u>995</u>
	Other <u>TNT landfarm RAO</u>		
Remediation Location: <small>(i.e., landfarmed onsite, name and location of offsite facility)</small>		Onsite <u>339 cu. yds.</u> <u>Clean Overburden</u>	Offsite <u>656 cu. yds. to</u> <u>TNT - Schmitz Ranch,</u> <u>N. Mex</u>
General Description of Remedial Action: <u>Removed contaminated soil from all 4 side walls</u> <u>to a below 100 ppm headspace reading.</u> <u>Bottom at 30' depth and sampled</u> <u>Excavated pit 32' X 28' X 30'</u>			
Ground Water Encountered:		No <u>X</u> Yes _____	Depth _____
Final Pit Closure Sampling: <small>(if multiple samples, attach sample result and diagram of sample locations and depths.)</small>			
Sample Location		<u>North wall, South wall, East wall, West wall</u> <u>Bottom 3 point composite</u>	
Sample depth		<u>30'</u>	
Sample date		<u>11/10/98</u>	Sample time <u>0830</u>
Sample Results			
Soil: Benzene (ppm)		<u>1.5</u>	Water: Benzene (ppb) _____
Total BTEX (ppm)		<u>60.3</u>	Toluene (ppb) _____
Field headspace (ppm)		<u>1222 ppm</u>	Ethylbenzene (ppb) _____
TPH <u>150</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>11/10/98</u>		PRINTED NAME <u>Gary Cook</u>	
SIGNATURE <u>Mary 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): <u>R.A Attached</u>	
SIGNED: <u>Kee C M...</u>		DATE: <u>12-15-98</u>	

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

11/6/98

Site drawing:

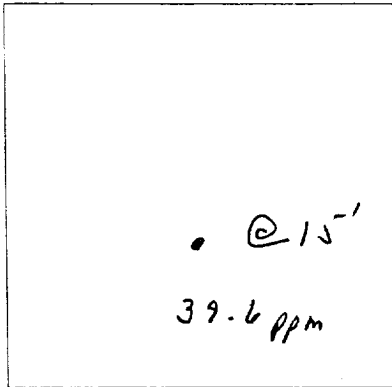


not to scale

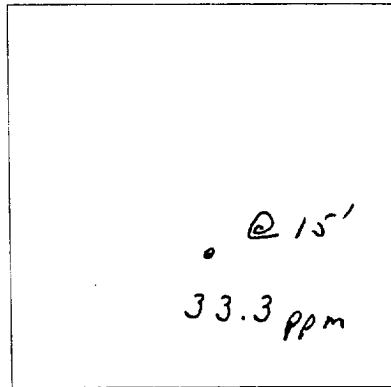
Axi Apache N #13A Drip
WFS
Sec. 2, 25N, 4W, I

11/16/98

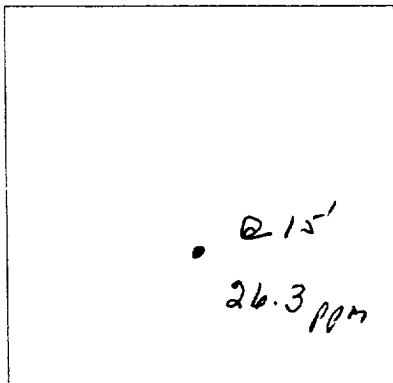
North Wall



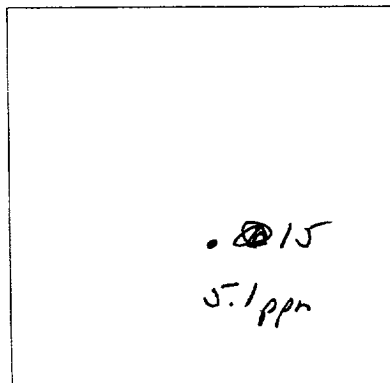
South Wall



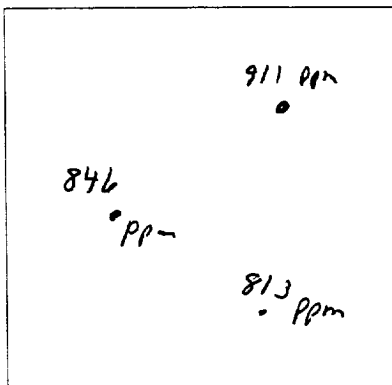
East Wall



West Wall



Bottom



@ 30'
clay

3 point. Comp. 1222 ppm
headspace reading

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: 9811043

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#13 ^A Drip
Work Order:	9811043	Client Sample ID:	9811100830; Bottom @ 30ft.
Lab ID:	9811043-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/10/98 8:30:00 AM
		COC Record:	7422

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	150	25		mg/Kg	1	11/20/98
BTEX		SW8020A				Analyst: DC
Benzene	1500	500		µg/Kg	500	11/15/98
Toluene	27000	1000		µg/Kg	500	11/15/98
Ethylbenzene	2600	500		µg/Kg	500	11/15/98
m,p-Xylene	25000	1000		µg/Kg	500	11/15/98
o-Xylene	4200	500		µg/Kg	500	11/15/98

60,300 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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- 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#13 Drip
Work Order:	9811043	Client Sample ID:	9811100840; Walls @ 15ft.
Lab ID:	9811043-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/10/98 8:40:00 AM
		COC Record:	7422

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	27	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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1



Environmental Services

Well Name:	Axi Apache N #13A Drip
Well Legals:	Unit I, Sec 2, T25N, R4W
Pit Type:	Drip
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 Drip 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 995 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 Drip well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.