JEPUTY 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**

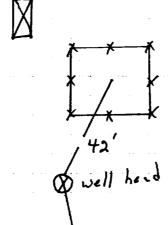
PIT REMEDIATION AND CLOSURE REPORT

The second secon						
Operator: PNM Gas Services (Control O: Right Telephone: 324-3764						
Address: 603 W. Elm Street Farmington, NM 87401						
Facility or Well Name: Axi Apache J#13						
Location: Unit: L Sec. 7 T. 25N R. 5W County Rio Arriba						
Pit Type: Separator <u>X</u> Dehydrator Other						
Land Type: Jicarilla Apache						
Pit Location: Pit dimensions: length 3 width 21 depth 3						
(Attach diagram) Reference: wellhead other						
Footage from reference: 42						
Direction from reference: 10° Degrees χ East North						
of West South						
Darab to Cround Mater: Less than 50 feet (20 points)						
Depth to Ground Water: 50 feet to 99 feet (Vertical distance from contaminants Greater than 100 feet (20 points) (10 points)						
to seasonal high water elevation of ground water)						
Wellhead Protection Area: (20 points) Yes (20 points) O (10 points) O (10 points)						
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)						
Distance to Surface Water: O[[[]] (C(0)[N] [D)[[N]] 200 feet to 1,000 feet (10 points)						
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)						
Distance to Ephemeral Stream_(dry wash): Less than or equal to 100 feet (10 points)						
(Horizontal distance to all downgradient streams having a width of at least 10						
Distance to Nearest Lake, Playa, or Watering Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)						
Pond: (Horizontal distance to all downgradient lakes, playas, and fivestock or wildlife water ponds)						
RANKING SCORE (TOTAL POINTS):						

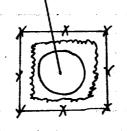
Date Remediation Started	1: 7-16-98	Date Completed:	9/3/98
Remediation Method:	Excavation	_ Approx. Cubic Yards _	80
(Check all appropriate	Landfarmed	Amount Landfarmed (cubi	c yds):
sections)	Other		.
Remediation Location: (i.e., landfarmed onsite, name	Onsite	Offsite	
and location of offsite facility) General Description of F	, , ,	01 7' 1 1	hard sandstone
Excaveled p	oved conteminated	soil from all	Hard sandstone 4 walls
as to get	e below 100 ppm	head space rea	dizz.
Ground Water Encounte	ered: No Yes	Depth	
Final Pit Closure Sampling:	Sample Location Walls 6		
(if multiple samples, attach	Sample depth 4' 17'	<u>@ 7' 980711</u>	, 7030
sample result and diagram of sample locations and depths.)	Sample date 7/16/98	Sample time	1334 # 1335
5	Sample Results		
Soil: E	Benzene (ppm) . NDC	Water: Benzene (ppb)
,	Total BTEX (ppm 54.6	Toluene (
F	Field headspace (ppm) 1468	Ethylbenze	
٦	「PH <u>/5ン ppm</u> Method _	80 15 Total Xyler	les (ppb)
Ground Water Sample	e: Yes No	(If yes, attach	sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY B	T THE INFORMATION ABOVE IS T		
		ن کرمی TED NAME Roy Burnha	vol m
SIGNATURE	Jan Cook AND	O TITLE Environmental	Technician II I
	E PIT CLOSURE INFORMATION, PI TRIBE PIT CLOSURE ORDINANCE) IN ACCORDANCE ∧
APPROVED: YES	NO (REASON	v): R.A. Atla	cled
SIGNED:	Man DAT	E: 9-3-98	

Ax: Apache J #13 Continent + O:1 Co Sec. 7, 25N, 5N, L

start of excavation:



All production equip.



Stock tank blowdown from well head

End of execution:

Sandston e

18

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9807047

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807047

Lab ID:

9807047-02A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J #13

Client Sample ID: 9807161335; Bottom @ 7ft.

Collection Date: 7/16/98 1:35:00 PM

COC Record: 7322

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	150	25	mg/Kg	1	7/27/98
ВТЕХ	SW8020A			Analyst: DC	
Benzen e	ND	500	μg/ Kg	500	7/22/98
Toluene	2200	1000	μg/ Kg	500	7/22/98
Ethylbenzene	8100	500	μ g/Kg	5 00	7/22/98
m,p-Xylene	360 00	1000	μg/ Kg	500	7/22/98
o-Xylene	8300	500	μg/ Kg	500	7/22/98
•	54600				
	54.600	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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-98

Client:

Project:

PNM - Public Service Company of NM

Work Order:

9807047

Lab ID:

9807047-01A

Matrix: SOIL

PNM Pit Remediation

Client Sample Info: Axi Apache J #13

Client Sample ID: 9807161330; Walls @ 4ft.

Collection Date: 7/14/98 1:30:00 PM

COC Record: 7322

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/ Kg	1	7/23/98

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

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E - Value above quantitation range

Surr: - Surrogate

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Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Axi Apache J #13 Unit L, Sec 7, T25N, R5W Separator Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

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

- 1. Groundwater is estimated to be at a depth of 134 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Lapis Canyon). (Reference: Gonzales Mesa, 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 80 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 4. Sandstone was encountered at 7 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

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

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Contractor) Wh Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401				
Facility or Well Name: Ax; Aprile J# 13				
ocation: Unit: L Sec. 7 T. 25 N R. 5 W County Rio Arriba				
and Type: Jicarilla Apache				
Date Remediation Started: 7/14/98 Date Completed: 8/21/98				
Remediation Method: Landfarmed Approx. cubic yards & &				
Composted Other				
Depth to Ground Water: (pts.) Ø Final Closure Sampling:				
Distance to an Enhanceral Stream: (nts.)				
Distance to Nearest Lake, Playa, (pts.) Sampling Date: 8/7/98 Time 1027 Sampling Results:				
Wellhead Protection Area: (pts.) Ø Field Headspace (ppm) 1.4				
Distance to Surface Water: (pts.) P TPH (ppm) N/D Method 8015				
Ranking Score (Total Points):				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF				
DATE 8/29/98 PRINTED NAME Roy Burnham				
DATE 8/29/98 PRINTED NAME Roy Burnham SIGNATURE Roy Buenham AND TITLE Environmental Technician II				
-1 9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 				
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) WE ON BOCK JUNE				
SIGNED: DATE: 9-3-98				

Ax: Apache J#13 Continental O:1 Co. See. 7,25N,5W, L 7/12/18

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LAB: (505) 325-1556

Date: 26-Aug-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9808036

Lab ID:

9808036-15A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J-13 LF

Client Sample ID: 9808171027; 5pt. Comp.

Collection Date: 8/17/98 10:27:00 AM

COC Record: 7333/34/35

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/ Kg	1	8/21/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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