MISK

Denny S. Fort DEPUTY OIL & GAS INSPECTOR

💈 JICARILLA APACHE TRIBE

FEB 0 8 1999

**ENVIRONMENTAL PROTECTION OFFICE** 

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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P.O. BOX 507 DULCE, NEW MEXICO 87528

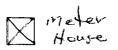
# PIT REMEDIATION AND CLOSURE REPORT

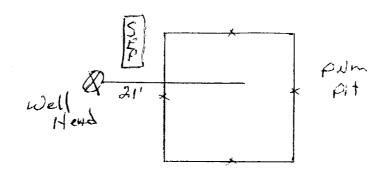
Operator: PNM Gas Services ( Conc	Telephone: 324-3764					
Address: 603 W. Elm Street Farmington, NM 87401						
Facility or Well Name: Axi Apache J-6						
Location: Unit:  Sec. 7	T. 25 N R. 5 W County Rio Arriba					
Pit Type: Separator X Dehydrator	Other					
Land Type: Jicarilla Apache						
Pit Location: Pit dimensions: length						
(Attach diagram) Reference: wellhead	d X other					
Footage from reference:	211					
Direction from reference: De	Le Degrees X East North					
	of West 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: FEB - 1 19	99 Yes (20 points) Yes (0 points)					
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	No (Upoints)					
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):					

Date Remediation Started:	7/16/98	Date Completed:	9/9/98
Remediation Method:	Excavation X	Approx. Cubic Yards	45
(Check all appropriate sections)	Landfarmed X	Amount Landfarmed (cubic yd	s): <u>65</u>
Section <b>s</b> )	Other		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite	
Botton is	ontaminated soil	hend space v	side walls reading.
Ground Water Encounter	ed: No <u>×</u> Yes	Depth	
Final Pit Closure Sampling:	Sample Location North	Erst, South, was	t side wills
(if multiple samples, attach sample result and diagram of sample locations and	Sample depth  Sample date  7/16/98	Sample time /	04/
depths.) Sa	ample Results	· —	
Soil: Be	enzene (ppm) ND	Water: Benzene (ppb)	
То	otal BTEX (ppm51. 900	Toluene (ppb)	-
Fie	eld headspace (ppm) _ 5/ 용	Ethylbenzene (	
TF	PH ND ppm Method &	Total Xylenes	(ppb)
Ground Water Sample:	Yes No _	(If yes, attach sam	ple results)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY BE	THE INFORMATION ABOVE IS TRELIEF	UE AND COMPLETE TO THE	BEST OF MY
DATE 7/28	PRINT	ED NAME Ronald A. Dedrig	ck Roy Burnham
SIGNATURE Roy 6	Burnham AND	TITLE Environmental Tec	hnician II
1	PIT CLOSURE INFORMATION, PIT FRIBE PIT CLOSURE ORDINANCE.	CLOSURE IS APPROVED IN	ACCORDANCE
APPROVED: YES	NO (REASON)	: RA. Attack	ed
SIGNED: Let	DATE	: 8-18-98	

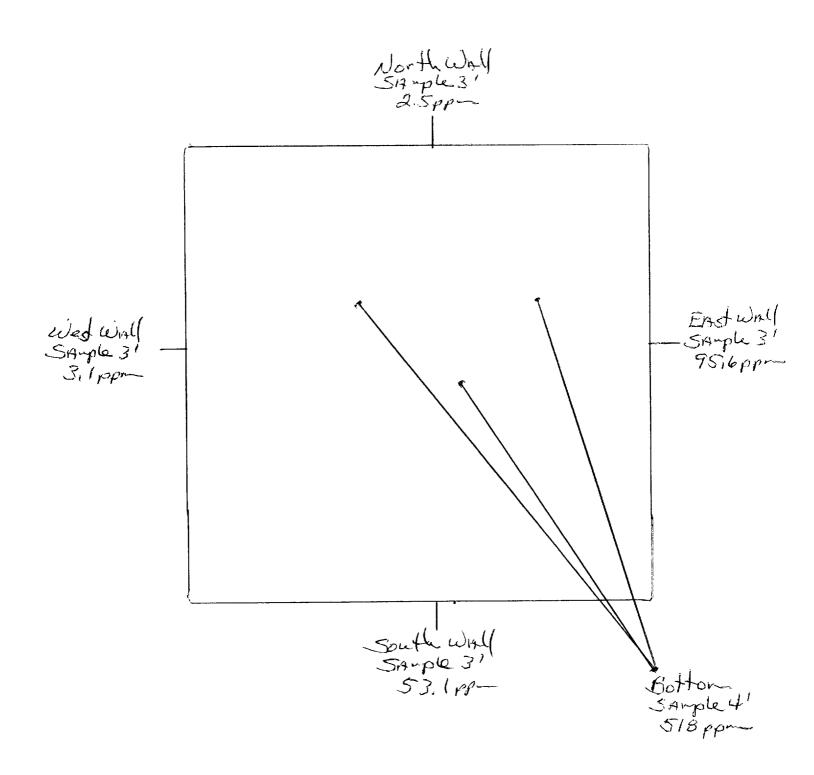
1XI HPACLE J-6 Sec 7 TZSN RSW Unit P Longo

Site Drawing





Exchantion Drawing



LAB: (505) 325-1556

### On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9807045

CASE NARRATIVE

Date: 28-Jul-98

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/ChemicaTMethods, 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:

9807045

980/043

9807045-06A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J-6

Client Sample ID: 9807161041; 3pt. Composite Dotton

**Collection Date:** 7/16/98 10:41:00 AM

COC Record: 7316

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	SW8015			Analyst: <b>HR</b>
T/R Hydrocarbons: C10-C28	ND	25	mg/K <b>g</b>	1	7/27/98
BTEX	SI	V8020A			Analyst: DC
Benzene	ND	500	μ <b>g/Kg</b>	500	7/24/98
Toluene	36000	1000	μg/ <b>Kg</b>	500	7/24/98
Ethylbenzene	1000	500	μ <b>g/Kg</b>	500	7/24/98
m,p-Xylene	12000	1000	μ <b>g/Kg</b>	500	7/24/98
o-Xylene	2900	500	μg/ <b>Kg</b>	500	7/24/98

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

THE ENVIOLENCE

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 28-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807045

9807045-05A

Matrix: SOIL

Lab ID: **Project:** 

PNM Pit Remediation

Client Sample Info: Axi Apache J-6

Client Sample ID: 9807161040; 4pt. Composite - walls

Collection Date: 7/16/98 10:40:00 AM

COC Record: 7316

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: <b>HR</b>
T/R Hydrocarbons: C10-C28	ND	25	mg/K <b>g</b>	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

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Axi Apache J #6 Unit P, 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 #6 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 172 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 65 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. Bedrock was encountered at 4 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 #6 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	(Coroco)	Telephone: 324-3764	7		
Address: 603 W. Elm Street Farm	nington. NM 87401				
Facility or Well Name: $\frac{1}{1}$	: Aprela J-	-6	.		
	Sec. 7 T.	25 N R. 5 W County Rio Amba	-		
Land Type: Jicarilla Apache					
Date Remediation Started:	<del></del> >	Approx. cubic yards 65	- -		
Depth to Ground Water: Distance to an Ephemeral Stream Distance to Nearest Lake, Playa, or Watering Pond: Wellhead Protection Area: Distance to Surface Water: Ranking Score (Total Po	(pts.) & (pts.) (pts.)	Sampling Results:  Field Headspace (ppm) /// Method			
DATE SIGNATURE Roy Burn		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 NO	(REASON)	DATE: 9-9-98			

TAIHPACHEUTE Jec. 7 TZSN RSW Whitp Johnson

LANdfare Drawing

Well Hered

O.Oppm

0.0 ppm

331

1.6 ppm

0.0 ppm

0.0 ppm

42'



LAB: (505) 325-1556

## On Site Technologies, LTD.

**Date:** 26-Aug-98

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9808036

**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

Date: 26-Aug-98

#### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9808036

9808036-12A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J-6 LF

Client Sample ID: 9808170940; 5pt. Comp.

Collection Date: 8/17/98 9:40:00 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	8/20/ <b>98</b>

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

E - Value above quantitation range

J - Analyte detected below Practical Quantitation Limit
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Surr: - Surrogate

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