JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

639, R A PP -

P.O. BOX 507 DULCE, NEW MEXICO 87528

DEBUTY OF & GAS INSPECTOR

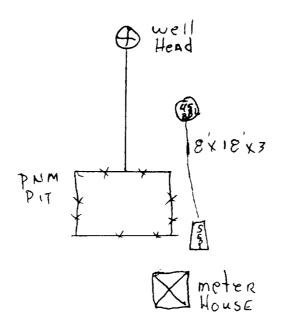
PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (C c	nocO) Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM	87401	
Facility or W	fell Name: Ay Apac	he 04	
Location:	Unit: D Sec. 9	T. 25 N R. 4W C	County Rio Arriba
Pit Type:	Separator X Dehydrat	or Other	
Land Type:	Jicarilla Apache	· 	
Pit Location	n: Pit dimensions: lengt	h <u>18'</u> width <u>18'</u>	depth 3
(Attach diag	ram) Reference: well	head other	
	Footage from reference:	93'	
	Direction from reference:	Degrees East	North
		West	South <u>X</u>
Depth to Gr	ound Water:	Less than 50 feet	(20 points)
Vertical distance fro to seasonal high wat ground water)	m contaminants	50 feet to 99 feet Greater than 100 feet	(10 points) (0 points)
Wellhead P	rotection Area:	Yes No	(20 points) (0 points)
	from a private domestic s than 1,000 feet from all)	NO NO	
Distance to (Horizontal distance lakes ponds, rivers, creeks, impation car	streams,	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)
Distance to	Ephemeral Stream (dry wash):	Less than or equal to 100 feet Greater than 100 feet	(10 points)
(Horizontal distance streams having a wi feet)	to all downgradient oth of at least 10	Greater than 100 leet	(0 points)
		Less than or equal to 100 feet Greater than 100 feet	(10 points) (0 points)
		RANKING SCORE (TOTAL	POINTS): 16

Date Remediation Started	1: 10/5/98	Date Completed: 12/15/98			
Remediation Method:	Excavation	_ Approx. Cubic Yards			
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds): 544554			
sections)	Other				
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite			
to get a bo					
Ground Water Encounte		Depth			
Final Pit Closure Sampling:	Sample Location North, and P.	EAST, South, west side walls			
(if multiple samples, attach sample result and diagram of sample locations and	Sample depth $\frac{23}{10/6/98}$	Sample time CES7			
depths.)	Sample Results				
Soil:	Benzene (ppm)	Water: Benzene (ppb)			
-	Total BTEX (ppm 90.300	Toluene (ppb)			
	Field headspace (ppm) 1867	Ethylbenzene (ppb)			
	TPH -1867 ppm Method	Pols Total Xylenes (ppb)			
Ground Water Sample	e: Yes No	(If yes, attach sample results)			
I HEREBY CERTIFY THA KNOWLEDGE AND MY		TRUE AND COMPLETE TO THE BEST OF MY			
DATE 10/27	las	ITED NAME Roy Burnham			
SIGNATURE Roy L	Buenhan ANI	D TITLE Environmental Technician II			
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.					
APPROVED: YES	<u> </u>	N): R-A. Attached			
SIGNED:	C Man C DAT	TE: 11-30-98			

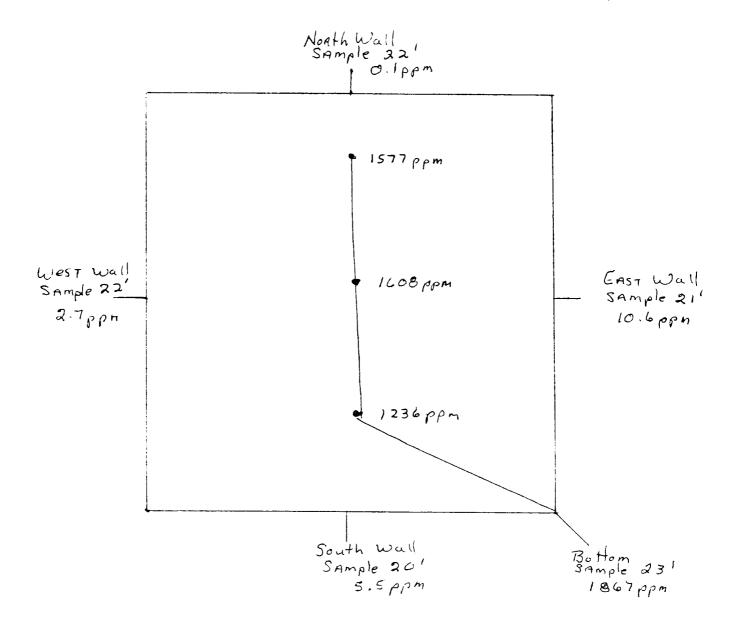
Ati Apache 04 Sec- 9- T-25N-R4W Conoco

Site Demunia



EXCAUATION DRAwing

26'x 25'x 23'





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9810033

CASE NARRATIVE

Date: 23-Oct-98

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: 23-Oct-98

ANALYTICAL REPORT

Client: PNM - Public Service Company of NM

Work Order:

9810033

Lab ID:

9810033-02A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache O4

Client Sample ID: 9810060852; 3pt. Comp. Bottom

Collection Date: 10/6/98 8:52:00 AM

COC Record: 7393

Analyst: HR
CARCITOL. III.
v98
Analyst: HR
3/98 ´
3 /9 8
i/98
s/98
3/98

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810033

9810033-01A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache O4

Client Sample ID: 9810060851; 4pt. Comp. Walls

Collection Date: 10/6/98 8:51:00 AM

COC Record: 7393

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	sv	V8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/14/98	

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

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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Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Axi Apache O #4
Unit D, Sec 9, T25N, R4W
Separator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Axi Apache O #4 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 260 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Lapis Point, 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 544 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 23 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 O #4 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

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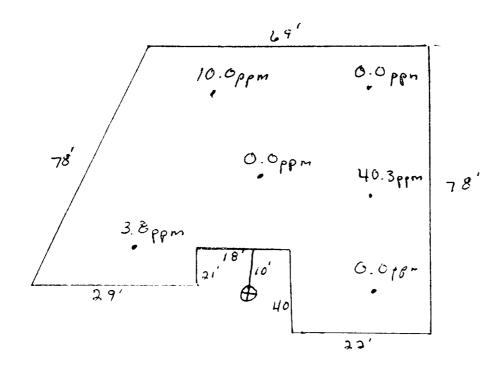
JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator:	PNM Gas Services	(Conoco)	Telephone:	324-3764	
Address:	603 W. Elm Street Farmington	, NM 87401			
Facility or W	Facility or Well Name: Ax, Apache 04				
Location:	Unit: 1	Sec. <u> </u>	25 N R.	Y W County Rio Arriba	
Land Type:	Jicarilla Apache				
Date Remediati Remediation M		/9 8 <u>x</u>	Date Complex Approx. cubic y		
Depth to Grou	ind Water:	(pts.)		Final Closure Sampling:	
Distance to an	n Ephemeral Stream:	(pts.) 10	Sampling	Date: 11/24/98 Time 1030	
Distance to Nor Watering P	earest Lake, Playa, ond:	(pts.)	Sampling		
Weilhead Pro	tection Area:	(pts.) <u>O</u>		adspace (ppm) 40.3	
Distance to S	urface Water:	(pts.) <u>O</u>	TPH Other	(ppm) ND Method 80/5	
Ranking Score (Total Points):					
DATE HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF 12/12/98 PRINTED NAME Roy Burnham					
SIGNATURE ROY Burn PRINTED NAME ROY Burnham 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: 12-15-98					

Re-Apache D-4 Sec. o Trask P-4W 4LD

LANDFARM DRAWING



Not do Sente

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation Landfarms

Lab Order: 9811079

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: 08-Dec-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

Work Order:

9811079

Lab ID:

Client:

9811079-01A

Matrix: SOIL

Project:

Jicarilla Pit Remediation Landfarms

Client Sample Info: Axi Apache O-4 LF

Client Sample ID: 9811241030; 6pt Composite

Collection Date: 11/24/98 10:30:00 AM

COC Record: 7443

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	12/7/98

Qualifiers: PQL - Practical Quantitation Limit

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