

NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

SUBMIT 1 COPY TO

FEB 0 8 1999

P.O. BOX 507 **DULCE, NEW MEXICO 87528**

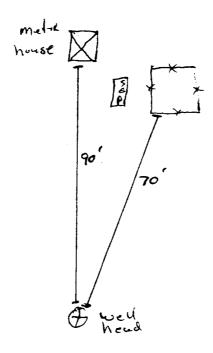
PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Conocc) Telephone: 324-3764
Address:	603 W. Elm Street Farmington, NM 87401	
Facility or W	Well Name: Axi Hoache O-	- 5
Location:	Unit: 3 Sec. 9 T. 25N	R. Y W County Rio Arriba
Pit Type:		Other
Land Type:	Jicarilla Apache	
Pit Location	on: Pit dimensions: length 26'	width 2c' depth 3'
(Attach diagr	gram) Reference: wellhead	other
	Footage from reference: 70	
	Direction from reference: 20 Degree	<u> </u>
		of West South
Der to Gro	• • • • • • • • • • • • • • • • • • • •	ess than 50 feet (20 points)
(Vertical 3 stance from to seaschallnigh wate ground water)	Util CUTRASIII RASIUS	60 feet to 99 feet (10 points) ter than 100 feet (0 points)
(Less than 200 feet fr water source, or; less	Protection Area: from a private domestic as than 1,000 feet from all	Yes (20 points) No (0 points)
Distance to (Horizontal distance to lakes, ponds, rivers, s creeks, impation care	Surface Water: to perennial streams Le 200 fi Greate	eet to 1,000 feet (20 points) r than 1,000 feet (0 points)
Distance to (Horizontal distance to streams having a widdifeet)	e to all downgradient Great	equal to 100 feet (10 points) ter than 100 feet (0 points)
Distance to Pond: (Horizontal distance tiakes, playas, and live water ponds)	e to all downgradient	equal to 100 feet (10 points) fer than 100 feet (0 points)
	RANKING S	CORE (TOTAL POINTS):

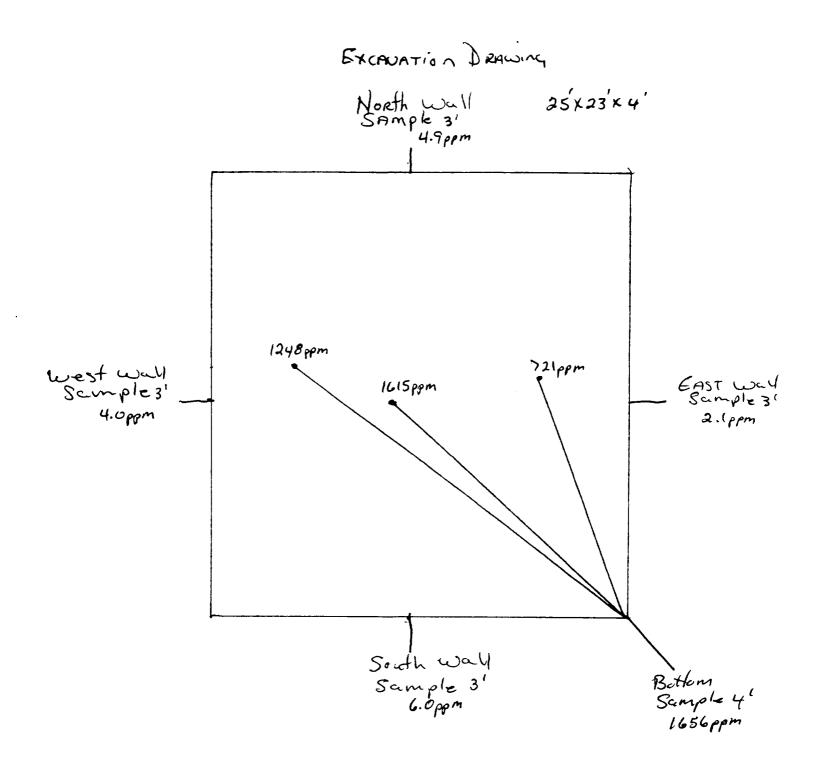
Date Remediation Started	: <u>///3/98</u>	Date Completed:/2	/21/98			
Remediation Method:	Excavation \(\triangle \triangle \)	Approx. Cubic Yards {	35			
(Check all appropriate	Landfarmed	Amount Landfarmed (cubic yds):	<u>85</u>			
sections)	Other					
Remediation Location: (i.e., landfarmed onsite, name	Onsite	Offsite				
and location of offsite facility) General Description of R	emedial Action:					
Renieved		Soil from a	11 four			
Side walls	as to get a be sandstone. 3 Pt	1, (1, (1, (1, (1, (1, (1, (1, (1, (1, (ace recolonge.			
Final excevation		composite at botton	1			
Ground Water Encounter	red: No Yes	Depth				
Final Pit Closure Sampling:	Sample Location North	EAST South We	st side			
(if multiple samples, attach sample result and diagram of	Sample depth 4'					
sample locations and depths.)	Sample date 11/3/98 Sample time //33					
S	ample Results					
Soil: B	enzene (ppm) ND	Water: Benzene (ppb)				
т	otal BTEX (ppm /22.0	Toluene (ppb)				
Fi	ield headspace (ppm) _1656	Ethylbenzene (pp				
T	PH 570 ppm Method	Total Xylenes (ppi	b)			
Ground Water Sample	: Yes No	(If yes, attach sample	results)			
I HEREBY CERTIFY THAT KNOWLEDGE AND MY BE	FTHE INFORMATION ABOVE IS T ELIEF	RUE AND COMPLETE TO THE BE	ST OF MY			
DATE × 12/	. = / = -	TED NAME Roy Burnham				
SIGNATURE Roy 1	Buenha- AND	O TITLE Environmental Technic	cian II			
AFTER REVIEW OF THE TO JICARILLA APACHE	PIT CLOSURE INFORMATION, P TRIBE PIT CLOSURE ORDINANCI	IT CLOSURE IS APPROVED IN ACC	CORDANCE			
APPROVED: YES	NO (REASO	N): R.A. Attachea	0			
SIGNED:	-C Mc DAT	E: 12-15-98				

Atl Apache 0-5 Sec-9 T-25N R-4W ULB Conoco

Site DRAWING



Not to scale





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9811030

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 TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9811030

Lab ID:

9811030-04A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache O-5

Client Sample ID: 9811031133; 3pt Comp Bottom

Collection Date: 11/3/98 11:33:00 AM

COC Record: 7361

Parameter	Result	PQL	Qual Units		DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	N8015				Analyst: DC
T/R Hydrocarbons: C10-C28	570	25	mg/k	(g	1	11/15/98
TEX	SI	N8020A				Analyst: HR
·e nzene	ND	1000	μg/K	g	1000	11/9/98
eneuk	14000	2000	μ g/ K	9	1000	11/9/98
£th ylbenzene	12000	1000	μ g/ K	g	1000	11/9/98
m,p-Xylene	79000	2000	µg/K	9	1000	11/9/98
o-Xy lene	17000	1000	μ g/ K	g	1000	11/9/98
	122.00					
	122.00	000	^			

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

received the Delegan rate of the contract



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9811030

9811030-03A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache O-5

Client Sample ID: 9811031132; 4pt Comp Walls

Collection Date: 11/3/98 11:32:00 AM

COC Record: 7361

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	48	25	mg/Kg	1	11/14/98

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 O #5
Unit B, 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 Jicarilla O #5 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 308 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 85 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. Sandstone 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 O #5 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	Conoce		324-3764		
Address:	603 W. Elm Street Farming	iton, NM 87401			_	
Facility or W	/ell Name: 🛮 🛱 🗸 (Apacho	O-5		_	
Location: Land Type:	Unit: 13	Sec. 9 T.	<u>25 n</u> r	Y W County Rio Amba	-	
Date Remediat]9 5	Date Complete Approx. cubic ya	G ~		
Distance to N or Watering F Wellhead Pro Distance to S	n Ephemeral Stream: learest Lake, Playa,	(pts.) 3 (pts.) 3 (pts.) 3 (pts.) 3 (pts.) 3	Sampling D Sampling F Field Hea TPH Other	Results: adspace (ppm) 84.3	215	
DATE SIGNATURE 12/16/98 PRINTED NAME Roy Burnham AND TITLE Environmental Technician II						
	PACHE TRIBE PIT CLOSURE	CORDINANCE (REASON)	-SITE REMEDIATION	APPROVED IN ACCORDANCE TO THE		

C

Atl Apache 0-5 Sec- 9 T-25M R-4W UL B Conoco

LAND FARM DRAWING

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LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9812017

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

Da

Date: 15-Dec-98

lient:

PNM - Public Service Company of NM

Work Order:

9812017

9812017-04A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache O-5 LF

Client Sample ID: 9812090948 6pt Composite

Collection Date: 12/9/98 9:48:00 AM

COC Record: 7449

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	43	25	mg/Kg	1	12/11/98

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

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