

Approved

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

RFIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Jicarilla Apache Tribal 151-6			
Location:	Unit: <u>A</u>	Sec. <u>9</u>	T. <u>26</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Pit Type:	Separator <u> </u>	Dehydrator <u>X</u>	Other <u> </u>
Land Type: Jicarilla Apache			

Pit Location:	Pit dimensions:	length <u>36'</u>	width <u>33'</u>	depth <u>6'</u>
(Attach diagram)	Reference:	wellhead <u>X</u>	other <u> </u>	
	Footage from reference:	<u>180'</u>		
	Direction from reference:	<u>45</u> Degrees	East <u> </u> North <u> </u>	
			West <u> </u> South <u> </u>	

Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation or ground water)</small>	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	
Wellhead Protection Area: <small>(Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)</small>	Yes	(20 points)	<u>0</u>
	No	(0 points)	
Distance to Surface Water: <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet	(20 points)	
	200 feet to 1,000 feet	(10 points)	<u>0</u>
	Greater than 1,000 feet	(0 points)	
Distance to Ephemeral Stream (dry wash): <small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>	Less than or equal to 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started: 6/4/97 Date Completed: 7/22/97

Remediation Method: Excavation X Approx. Cubic Yards 264

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 264

Other _____

Remediation Location: Onsite X Offsite _____
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls
as to get a below 100ppm head space reading.
Bottom was solid rock

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North, South, East and West side walls

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 5'

Sample date 6/4/97 Sample time 1022

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) _____

Total BTEX (ppm) 0.004 Toluene (ppb) _____

Field headspace (ppm) 30.2 Ethylbenzene (ppb) _____

TPH ND ppm Method BC15 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No X (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 6/12/97 PRINTED NAME Ronald A. Dedrick

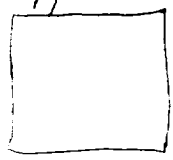
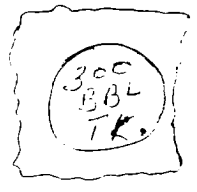
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): Sparg + close

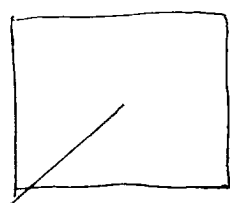
SIGNED: Kerr C. Mammill DATE: 6-16-97

Jicarilla Apache Tribal 151-6
Sec. 9 T26N R5W Unit A
Amoco



SEP

DH

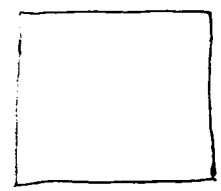


PNm
PIT



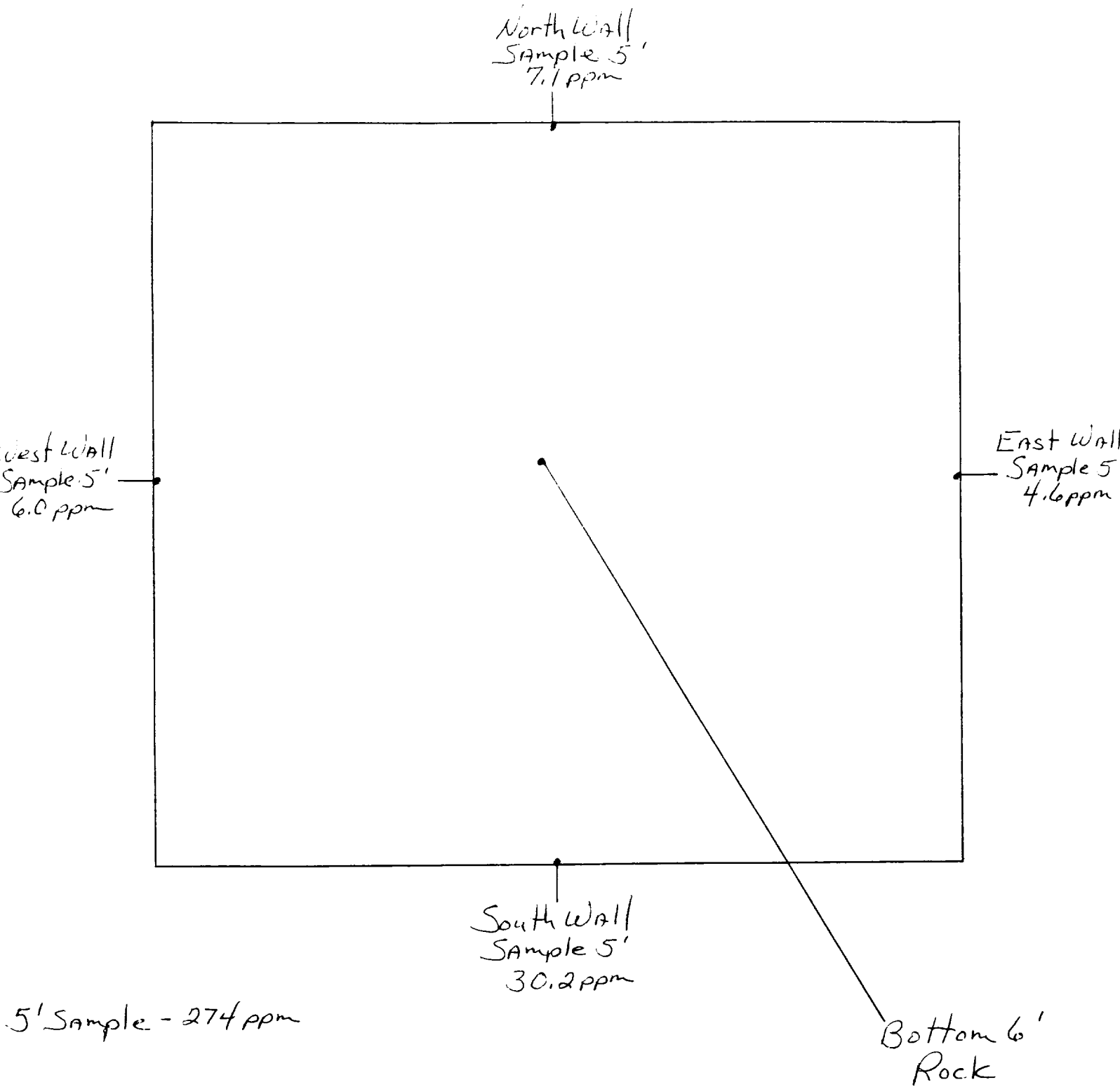
Well
Head

180'



Jicarilla Apache Tribal 151-6
Sec. 9 T26N R5W Unit A
Amoco

36' x 33' x 6'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *11-Jun-97*
COC No.: *5726*
Sample No.: *14859*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-6*

Project Location: *9706041022; 4pt. Composite*

Sampled by: *PA* Date: *4-Jun-97* Time: *10:22*

Analyzed by: *DC/HR* Date: *10-Jun-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	190	4.9	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	91	90	(70-130)	0	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ON SITE
TECHNOLOGIES, LTD.

TECHNOLOGIES, LTD.

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: 11-Jun-97
COC No.: 5726
Sample No.: 14859
Job No.: 2-1000


Project Location: **9706041022; 4pt. Composite**

Analyzed by: HR Date: 9-Jun-97

Sample Matrix: *Soil*

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	1	ug/kg
Toluene		2	ug/kg	1	ug/kg
Ethylbenzene		ND	ug/kg	1	ug/kg
m,p-Xylene		1	ug/kg	1	ug/kg
o-Xylene		ND	ug/kg	1	ug/kg
	TOTAL	4	ug/kg		

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: 6/11/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

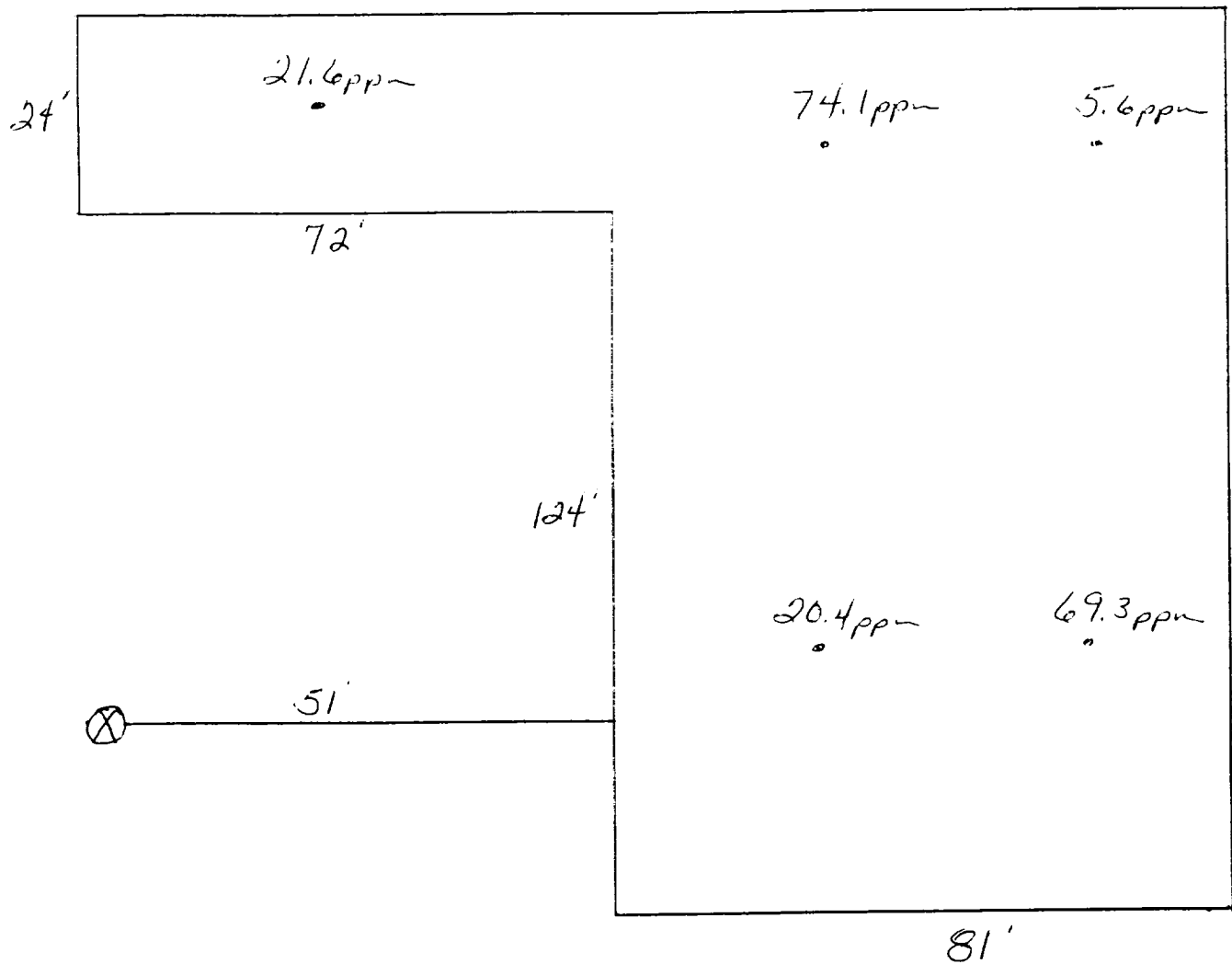
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator:	PNM Gas Services	Amoco	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401			
Facility or Well Name:	Jicarilla Apache Tribal 151-6			
Location:	Unit:	17	Sec.	9 T. 26 N R. 5 W County Rio Arriba
Land Type:	Jicarilla Apache			
Date Remediation Started:	6/4/97		Date Completed:	6/26/97
Remediation Method:	Landfilled <input checked="" type="checkbox"/>		Approx. cubic yards	264
	Composted <input type="checkbox"/>			
	Other <input type="checkbox"/>			
Depth to Ground Water:	(pts.)	0	Final Closure Sampling:	
Distance to an Ephemeral Stream:	(pts.)	0	Sampling Date: 6/18/97 Time 1401	
Distance to Nearest Lake, Playa, or Watering Pond:	(pts.)	0	Sampling Results:	
Wellhead Protection Area:	(pts.)	0	Field Headspace (ppm) 74.1	
Distance to Surface Water:	(pts.)	0	TPH (ppm) 12 Method 8015	
Ranking Score (Total Points):	0		Other <input type="checkbox"/>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF				
DATE	6/26/97		PRINTED NAME	Ronald A. Dedrick
SIGNATURE	<u>Ronald A Dedrick</u>		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	<input checked="" type="checkbox"/>		NO	<input type="checkbox"/> (REASON) _____
SIGNED:	<u>K. C. McNeill</u>		DATE:	6-27-97

Jicarilla Apache Tribal 151-6
Sec. 9 T26N R5W Unit A
Amoco

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *20-Jun-97*
COC No.: *5488*
Sample No.: *15019*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-6 Landfarm*
Project Location: *9706181401; 5pt. Composite*
Sampled by: *RB* Date: *18-Jun-97* Time: *14:01*
Analyzed by: *DC/HR* Date: *20-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>12</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>190</i>	<i>5.2</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>86</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:

Date:

DC
6/20/97

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