

Donna E. Frost
DEPUTY OIL & GAS INSPECTOR

MAR 28 1997

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (WFS)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Axi Apache A-10 Drip</u>			
Location:	Unit: <u>0</u>	Sec. <u>10</u>	T. <u>23</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Pit Type:	Separator <u> </u>	Dehydrator <u> </u>	Other <u>Line Drip</u>
Land Type: <u>Jicarilla Apache</u>			

Pit Location:	Pit dimensions:	length <u>25</u>	width <u>24</u>	depth <u>12</u>
(Attach diagram)	Reference:	wellhead <u> </u>	other <u>Drip riser</u>	
	Footage from reference:	<u>21'</u>		
	Direction from reference:	<u>Straight</u> Degrees	East <u> </u>	North <u> </u>
			<input checked="" type="checkbox"/> West	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)	
	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)	
	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)	
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)	
RANKING SCORE (TOTAL POINTS):			<u>0</u>

RECEIVED
JAN 24 1997
OIL COAL DIV.
DIST. 3

Date Remediation Started:

10/9/96

Date Completed:

11-14-96

Remediation Method:

Excavation

☒

Approx. Cubic Yards

267(Check all
appropriate
sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

267

Other _____

Remediation Location:

Onsite _____

Offsite

Axi Apache A-10 location(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 100 ppm head space reading
Bottom of pit was solid rock.

Ground Water Encountered:

No

☒

Yes _____

Depth _____

Final Pit Closure
Sampling:

Sample Location

North, East, South, & West
side walls.(if multiple samples, attach
sample result and diagram of
sample locations and
depths.)

Sample depth

12'

Sample date

10/9/96

Sample time

0831

Sample Results

Soil: Benzene (ppm)

0.0007

Water: Benzene (ppb) _____

Total BTEX (ppm)

0.0127

Toluene (ppb) _____

Field headspace (ppm)

11.9

Ethylbenzene (ppb) _____

TPH <5.0 ppm

Method

.8015

Total Xylenes (ppb) _____

Ground Water Sample:

Yes _____

No

☒

(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

10/11/96

PRINTED NAME

Roy Burnham

SIGNATURE

Roy Burnham

AND TITLE

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

APPROVED: YES

☒

NO _____

(REASON):

Spray / Close

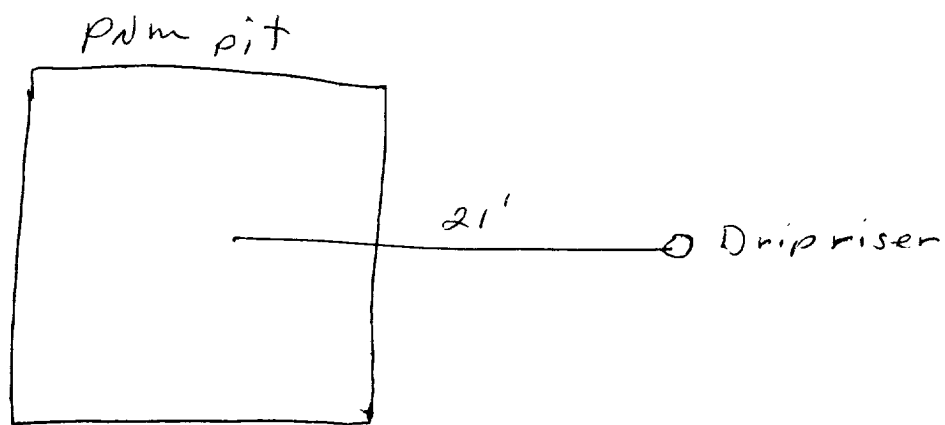
SIGNED:

Michael Johnson

DATE:

10/15/96

17x1 Hptache 17-10 Drip
Sec. 10 T23N R5W
WFS



OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *11-Oct-96*
COC No.: *5346*
Sample No.: *12546*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Axi Apache A-10 Drip Run 116*

Project Location: *9610090831; 4pt. Composite*

Sampled by: *PA* Date: *9-Oct-96* Time: *8:31*

Analyzed by: *DC/HR* Date: *11-Oct-96*

Sample Matrix: *Soil*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0489-QC*

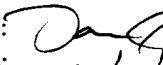
Calibration Check

<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>100</i>	<i>108</i>	<i>8.5</i>	<i>15%</i>

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>105</i>	<i>114</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

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

Approved by: 

Date: *10/11/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

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

Date: 11-Oct-96
COC No.: 5346
Sample No.: 12546
Job No.: 2-1000

Project Name: *PNM Gas Services - Axi Apache A-10 Run 116*
Project Location: *9610090831; 4pt. Composite*
Sampled by: PA Date: 9-Oct-96 Time: 8:31
Analyzed by: DC Date: 11-Oct-96
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	0.7	ug/kg	0.2	ug/kg
Toluene	8.4	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	2.5	ug/kg	0.2	ug/kg
o-Xylene	1.0	ug/kg	0.2	ug/kg
TOTAL		12.7	ug/kg	

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

Approved by: *[Signature]*
Date: 10/11/96

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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (LIFS) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Axi Apache A-10 Drip
Location: Unit: 0 Sec. 10 T. 23 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 10/9/96 Date Completed: 10/16/96
Remediation Method: Landfarmed X Approx. cubic yards 267
Composted —
Other —

Depth to Ground Water: (pts.) 0
Distance to an Ephemeral Stream: (pts.) 0
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance to Surface Water: (pts.) 0
Ranking Score (Total Points): 0

Final Closure Sampling:

Sampling Date: 10/16/96 Time 1451
Sampling Results:
Field Headspace (ppm) 17.7
TPH (ppm) <5.0 Method 8015
Other —

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10/16/96 PRINTED NAME Roy Burnham
SIGNATURE Roy Burnham AND TITLE Environmental Technician II

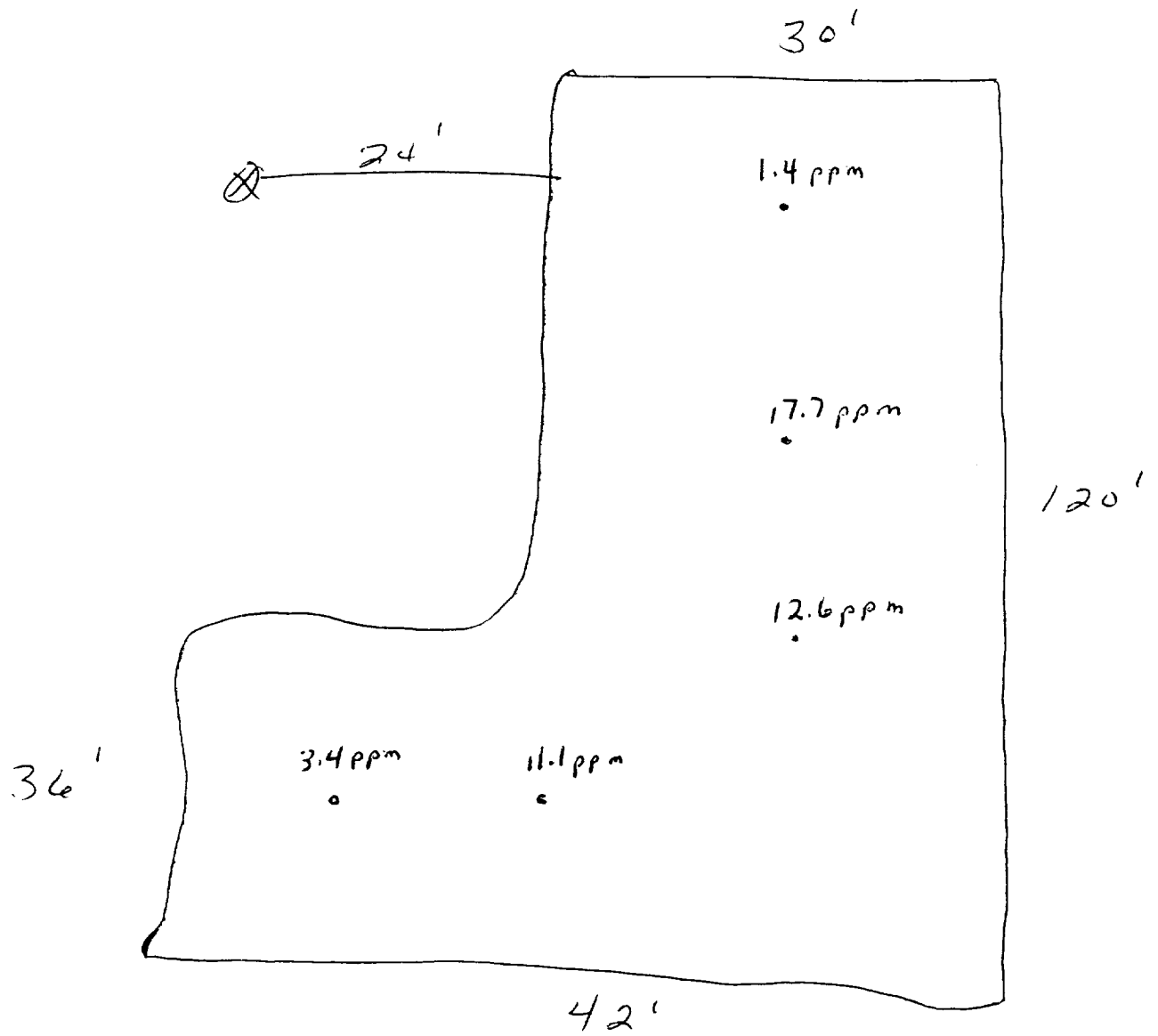
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES ✓ NO — (REASON) —

SIGNED: Daniel J. [Signature] DATE: 10/22/96

17x17pndle 17-10 Drip
Sec. 10 T23N R5W
WFS

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *18-Oct-96*
COC No.: *5364*
Sample No. *12614*
Job No. *2-1000*

Project Name: *PNM Gas Services - Axi Apache A-10 Drip Landfarm Run 116*
Project Location: *9610161451; 5pt. Composite*
Sampled by: *RB* Date: *16-Oct-96* Time: *14:51*
Analyzed by: *DC/HR* Date: *18-Oct-96*
Sample Matrix: *Soil*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>< 5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0489-QC

Calibration Check

<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i>< 5.0</i>	<i>ppm</i>	<i>100</i>	<i>102</i>	<i>1.6</i>	<i>15%</i>

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>93</i>	<i>97</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

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

Approved by: *[Signature]*

Date: *10/18/96*

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