

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

JUN 23 1998

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: PNM Gas Services (*WFS*) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: *Arizona Jicarilla A-5A Drip*

Location: Unit: *K* Sec. *13* T. *25* N R. *4* W County *Rio Arriba*

Pit Type: Separator _____ Dehydrator _____ Other *Line Drip*

Land Type: *Jicarilla Apache*

Pit Location: Pit dimensions: length *21'* width *20'* depth *9'*

(Attach diagram) Reference: wellhead _____ other *Drip Riser*

Footage from reference: *24'*

Direction from reference: *Straight* Degrees _____ East _____ North _____
_____ West _____ South *X*

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) *0*

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

Yes (20 points)
No (0 points) *0*

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) *0*

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) *10*

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) *0*

RANKING SCORE (TOTAL POINTS): *10*

Date Remediation Started:

10/9/97

Date Completed:

11/17/97

Remediation Method:

Excavation

☒

Approx. Cubic Yards

140(Check all
appropriate
sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

140

Other _____

Remediation Location:

Onsite _____

Offsite

Arizena Jicarilla A-5A(i.e., landfarmed onsite, name
and location of offsite facility)Location

General Description of Remedial Action:

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

Ground Water Encountered:

No

☒

Yes

Depth

Final Pit Closure
Sampling:

Sample Location

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

Sample depth

8'

Sample date

10/9/97

Sample time

1054

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

0.002

Toluene (ppb)

Field headspace (ppm)

10.8

Ethylbenzene (ppb)

TPH

ND

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

10/11/97

PRINTED NAME

Ronald A. Dedrick

SIGNATURE

Ronald A. Dedrick

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

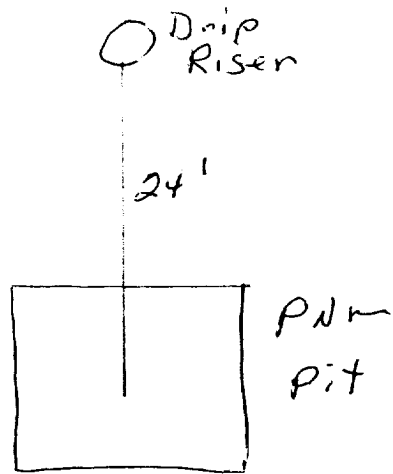
SIGNED:

Kenneth M. Mamm

DATE:

10-14-97

Arizona Jicarilla A-5A Drip
Sec. 13 T25N R4W Unit K
WFS



Arizona Jicarilla 17-5A Drip
Sec. 13 T25N R4W Unit K
WFS

21' X 20' X 9'

North Wall
Sample 8'
1.5 ppm

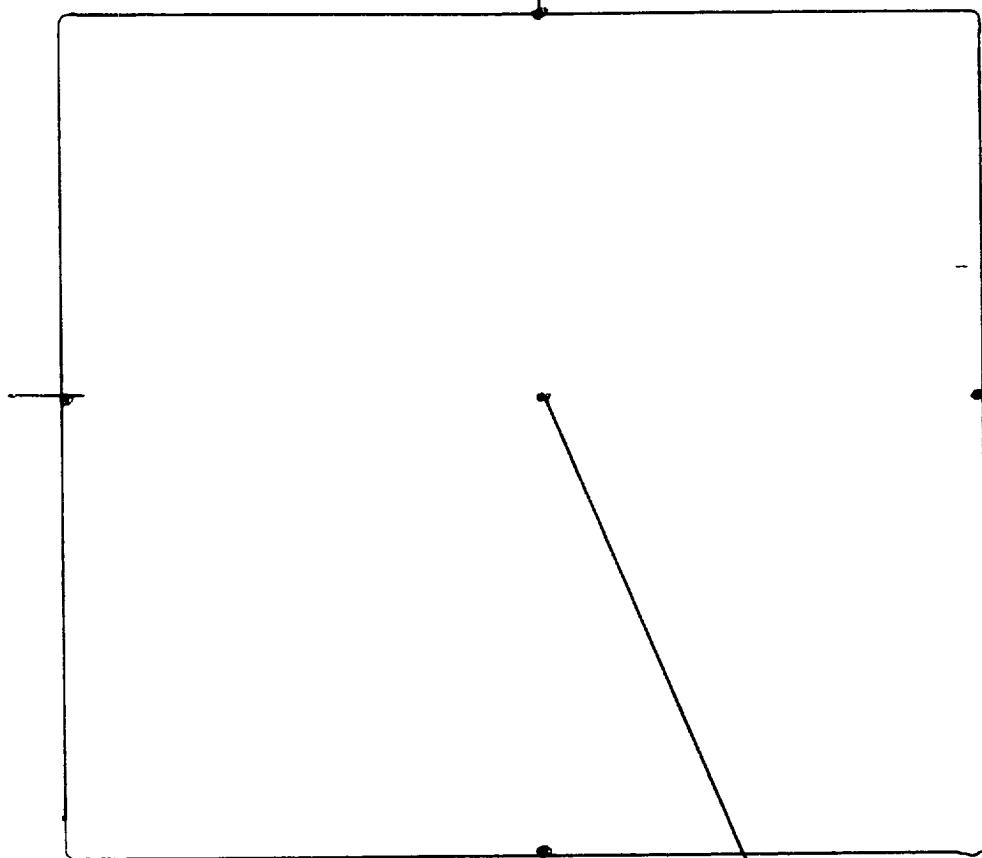
West Wall
Sample 8'
10.7 ppm

East Wall
Sample 8'
10.8 ppm

South Wall
Sample 8'
1.3 ppm

Bottom 9'
Rock

5' Sample - 444 ppm



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: *10-Oct-97*
COC No.: *5618*
Sample No.: *16547*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla A-5A Drip*
Project Location: *9710091054; 4pt. Composite*
Sampled by: *SA* Date: *9-Oct-97* Time: *10:54*
Analyzed by: *DC/HR* Date: *9-Oct-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.: 0555-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	202	1.0	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	103	104	(70-130)	1	20%

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

Approved by: *JAC*

Date: *10/10/97*

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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Sample No.: *16547*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Arizona Jicarilla A-5A Drip***

Project Location: ***9710091054; 4pt. Composite***

Sampled by: SA Date: 9-Oct-97 Time: 10:54

Analyzed by: DC Date: 10-Oct-97

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	5	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	2	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	2	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *10/10/97*

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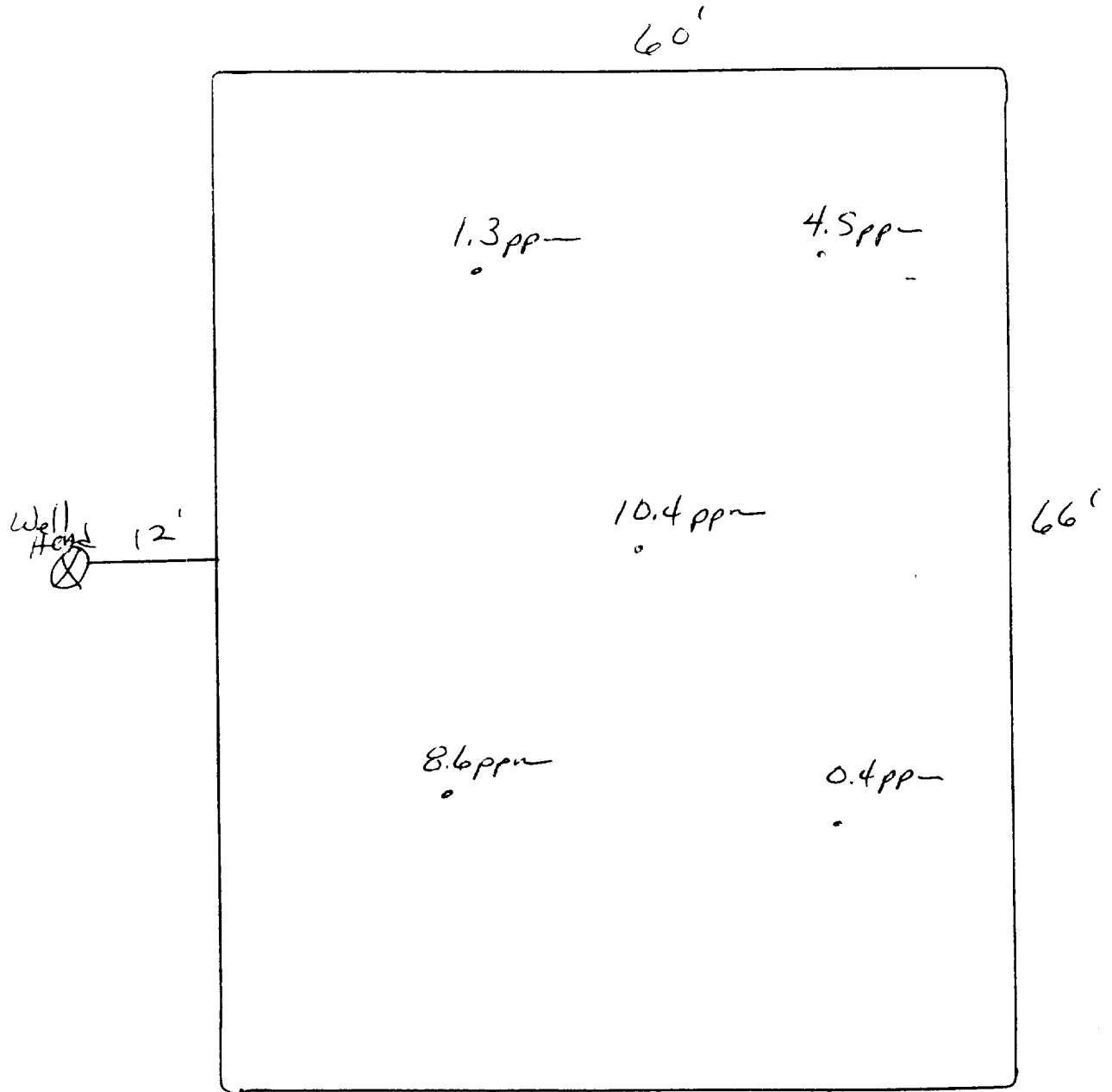
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (WFS)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Arizona Jicarilla A-5A Drip			
Location:		Unit: <u>R</u> Sec. <u>13</u> T. <u>25</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: Jicarilla Apache			
Date Remediation Started: <u>10/9/97</u>		Date Completed: <u>11/6/97</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>140</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>11/4/97</u> Time <u>1306</u> Sampling Results: Field Headspace (ppm) <u>10.4</u> TPH (ppm) <u>ND</u> Method <u>8015</u> Other <u> </u>	
Distance to an Ephemeral Stream: (pts.) <u>10</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>			
Wellhead Protection Area: (pts.) <u>0</u>			
Distance to Surface Water: (pts.) <u>0</u>			
Ranking Score (Total Points): <u>10</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>11/10/97</u>		PRINTED NAME <u>Ronald A. Dedrick</u>	
SIGNATURE <u>Ronald A. Dedrick</u>		AND TITLE <u>Environmental Technician II</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Lee C. Mamm</u>		DATE: <u>11-12-97</u>	

Arizona - Jicarilla H-5A Drip
Sec. 13 T25N R4W Unit K
WFS

Landfarm



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: *7-Nov-97*
COC No.: *5630*
Sample No.: *16767*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla A-5A Drip Landfarm*
Project Location: *9711041306; 5pt. Composite*
Sampled by: *RB* Date: *4-Nov-97* Time: *13:06*
Analyzed by: *DC/HR* Date: *6-Nov-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.: 0555-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	181	9.7	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	72	72	(70-130)	1	20%

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

Approved by: *[Signature]*
Date: *11/7/97*

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