

Denny E. Frost JICARILLA APACHE TRIBE
DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

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

OCT 28 1997

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Approved
Operator: PNM Gas Services (BROG) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla G-4
Location: Unit: N Sec. 11 T. 26 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator X Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 25' width 21' depth 4'
(Attach diagram) Reference: wellhead X other
Footage from reference: 90'
Direction from reference: Straight Degrees X East North
West of South

Depth to Ground Water:

(Vertical distance from contaminants
to seasonal high water elevation or
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points)

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)

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)

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)

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)

RANKING SCORE (TOTAL POINTS):

RECEIVED
JUL 31 1997

OIL CON. DIV.
DIST. 3

Date Remediation Started:

5/13/97

Date Completed:

7/9/97

Remediation Method:

Excavation

☒

Approx. Cubic Yards

78

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

78

Other _____

Remediation Location:

Onsite

☒

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 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, and
West side walls

Sample depth

4'

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

Sample date

5/13/97

Sample time

1020

Sample Results

Soil: Benzene (ppm)

0.0018

Water: Benzene (ppb) _____

Total BTEX (ppm)

0.0181

Toluene (ppb) _____

Field headspace (ppm)

96.2

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

5/26/97

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

☒

NO _____

(REASON): _____

SIGNED:

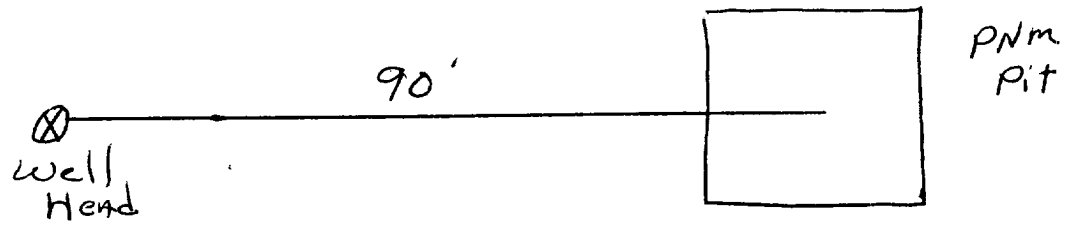
Kearl C. Merrill

DATE:

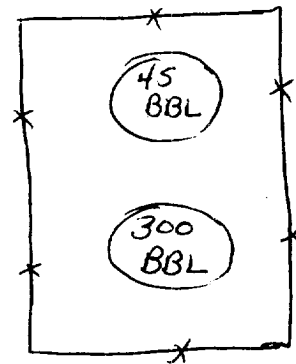
5-29-97

KARILLA G-4
ec. 11 T26N R5W Unit N
ROG

Meter Houses

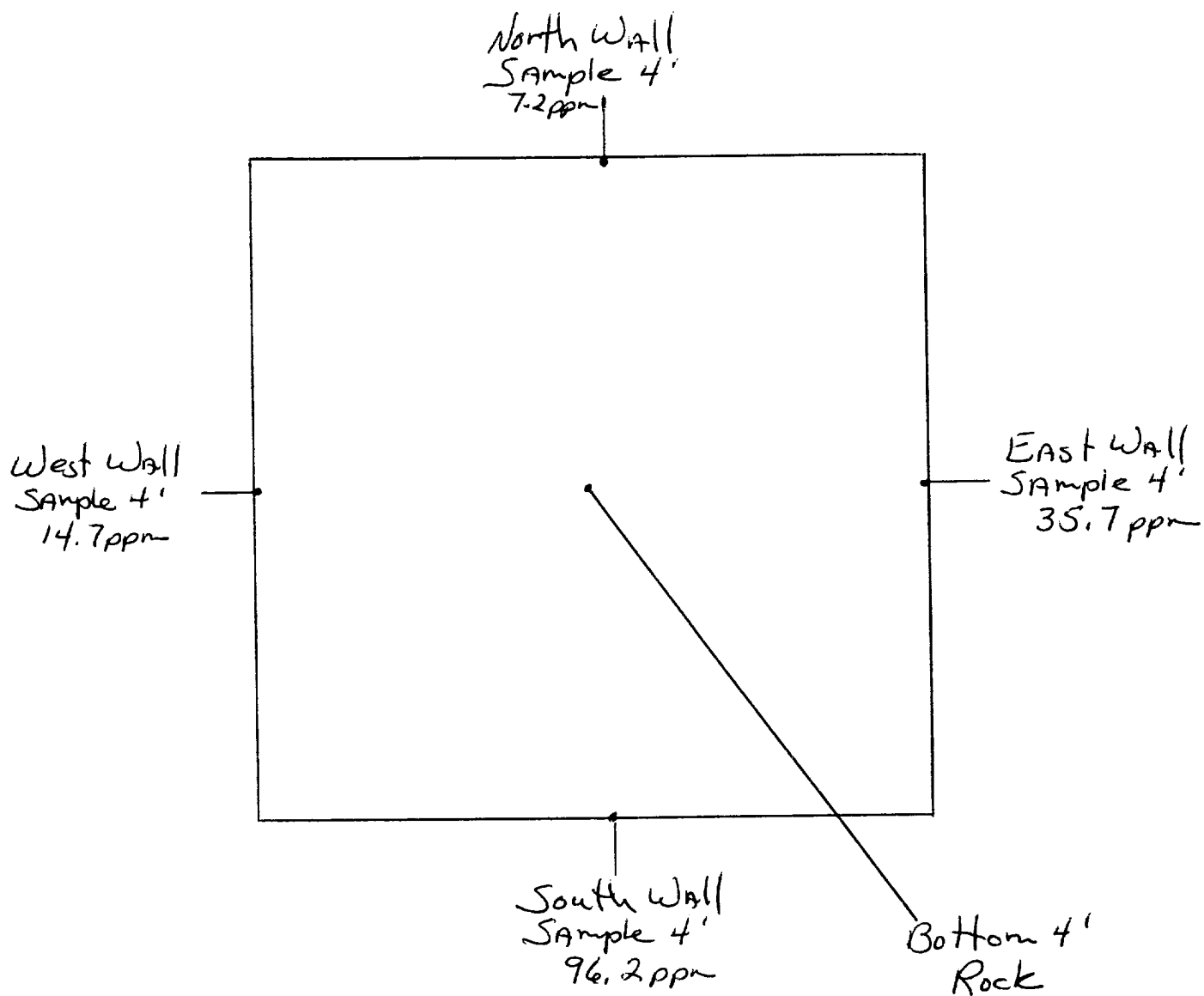


SEP



ICARILLA G-4
ec. 11 T26N R5W Unit N
ROG

25' x 21' x 4'



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: *22-May-97*
COC No.: *5456*
Sample No.: *14628*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-4 Run 12-21*
Project Location: *9705131020; 4pt. Composite*
Sampled by: *SA* Date: *13-May-97* Time: *10:20*
Analyzed by: *HR/DC* Date: *19-May-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	5.0	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: *0519-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	100	112	11.2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	100	(70-130)	0	20%

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

Approved by: *[Signature]*

Date: *5/22/97*

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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: *22-May-97*
COC No.: *5456*
Sample No.: *14628*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-4 Run 12-21*
Project Location: *9705131020; 4pt. Composite*
Sampled by: *SA* Date: *13-May-97* Time: *10:20*
Analyzed by: *DC* Date: *21-May-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>1.8</i>	<i>ug/kg</i>	<i>1.0</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>1.6</i>	<i>ug/kg</i>	<i>1.0</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>1.1</i>	<i>ug/kg</i>	<i>1.0</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>10.9</i>	<i>ug/kg</i>	<i>1.0</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>2.8</i>	<i>ug/kg</i>	<i>1.0</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>18.1</i>	<i>ug/kg</i>		

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *5/22/97*

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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	(<u>BROG</u>)	Telephone:	<u>324-3764</u>
Address:	<u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name:	<u>Jicarilla G-4</u>			
Location:	Unit:	<u>N</u>	Sec.	<u>11</u> T. <u>26</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Land Type:	<u>Jicarilla Apache</u>			
Date Remediation Started:	<u>5/13/97</u>		Date Completed:	<u>6/12/97</u>
Remediation Method:	Landfarmed	<u>X</u>	Approx. cubic yards	<u>78</u>
	Composted	<u> </u>		
	Other	<u> </u>		

Depth to Ground Water:	(pts.)	<u>0</u>
Distance to an Ephemeral Stream:	(pts.)	<u>0</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>0</u>

Final Closure Sampling:		
Sampling Date:	<u>6/4/97</u>	Time <u>0955</u>
Sampling Results:		
Field Headspace (ppm)	<u>10.6</u>	
TPH (ppm)	<u>10</u>	Method <u>8015</u>
Other	<u> </u>	

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

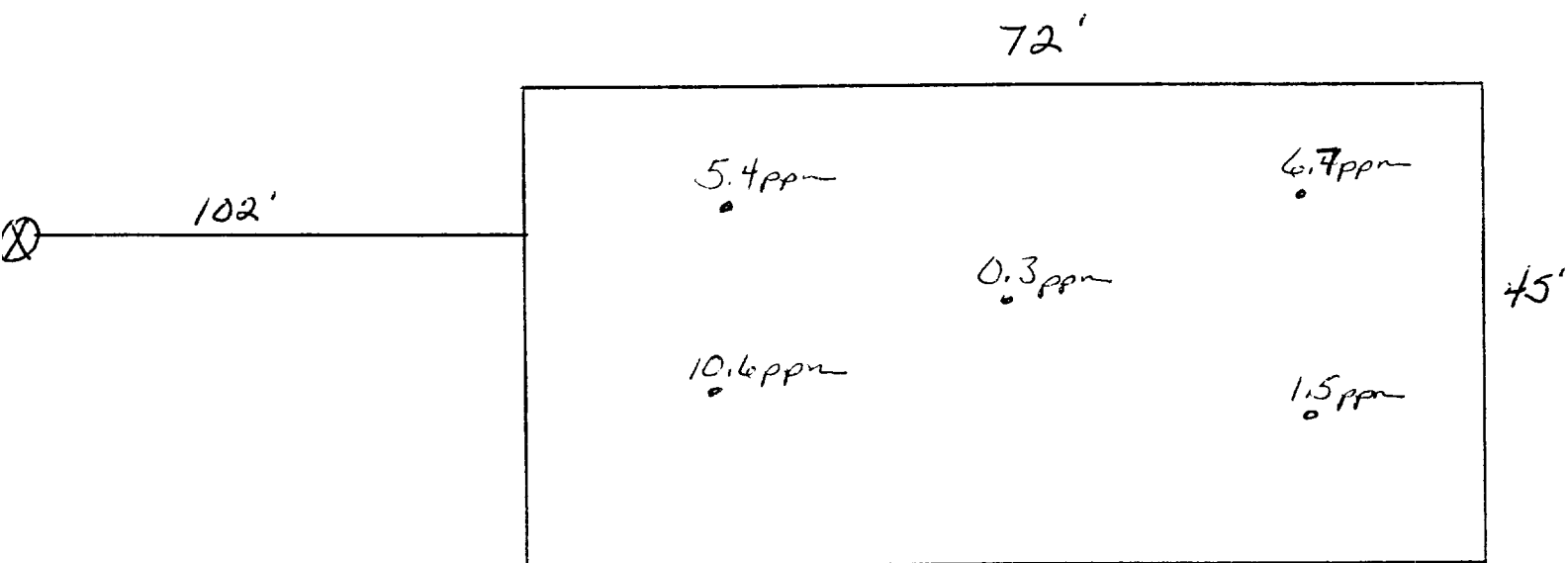
DATE	<u>6/12/97</u>	PRINTED NAME	<u>Ronald A. Dedrick</u>
SIGNATURE	<u>Ronald A. Dedrick</u>	AND TITLE	<u>Environmental Technician II</u>

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>OK for Backfill</u>
SIGNED:	<u>Kenneth Mamm</u>				DATE: <u>6-16-97</u>

KARILLA G-T
Sec. 11 T26N R5W Unit N
3 ROG

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: *9-Jun-97*
COC No.: *5484*
Sample No.: *14848*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-4 Landfarm*
Project Location: *9706040955; 5pt. Composite*
Sampled by: *RB* Date: *4-Jun-97* Time: *9:55*
Analyzed by: *DC/HR* Date: *5-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>	10	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	182	9.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	88	84	(70-130)	5	20%

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

Approved by: *[Signature]*

Date: *6/9/97*

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