

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (BROG)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Jicarilla G-1A</u>			
Location:	Unit: <u>D</u>	Sec. <u>1</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>Drip</u>
Land Type: <u>Jicarilla Apache</u>			

Pit Location:	Pit dimensions: length <u>28'</u> width <u>26'</u> depth <u>8'</u>		
(Attach diagram)	Reference:	wellhead <u>X</u>	other <u> </u>
	Footage from reference: <u>108'</u>		
	Direction from reference:	<u>60</u> Degrees	East <u> </u> North <u> </u> West <u> </u> of South <u> </u>

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation or ground water)	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: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes	(20 points)	<u>0</u>
	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)	<u>0</u>
	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)	<u>0</u>
	Greater than 100 feet	(0 points)	
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playes, and livestock or wildlife water ponds)	Less than or equal to 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started:

6/24/97

Date Completed:

8/25/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

216(Check all
appropriate
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

216

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 100 ppm head space reading.
Bottom is rock

Ground Water Encountered:

No

X

Yes _____

Depth _____

Final Pit Closure
Sampling:

Sample Location

North, East, South, And West
side walls.

Sample depth

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

Sample date

6/24/97

Sample time

1503

Sample Results

Soil: Benzene (ppm)

0.021

Water: Benzene (ppb) _____

Total BTEX (ppm)

0.218

Toluene (ppb) _____

Field headspace (ppm)

65.4

Ethylbenzene (ppb) _____

TPH

N/D

ppm

Method

8015

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

7/2/97

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):

3000 - close

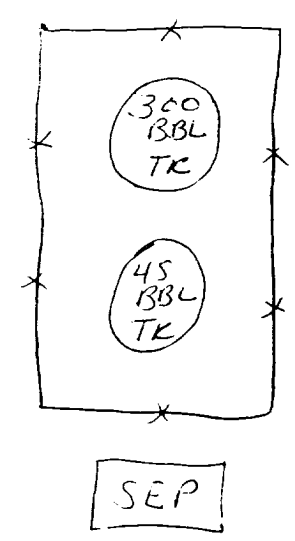
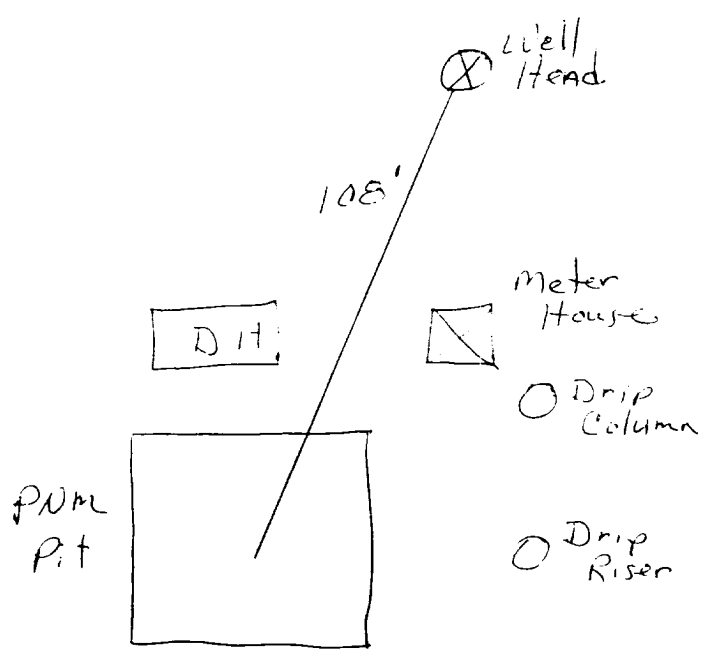
SIGNED:

Kate C. Mamm

DATE:

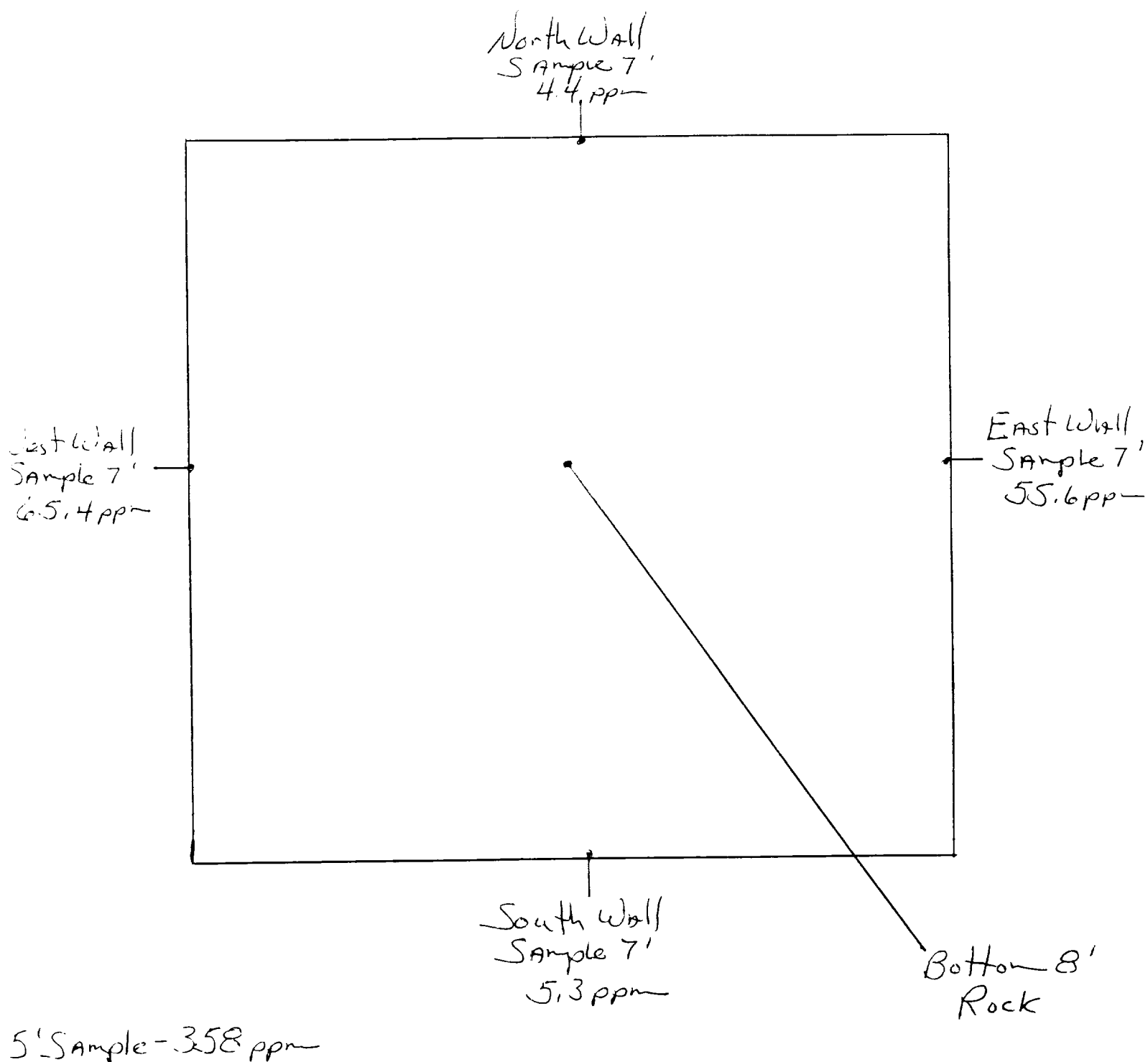
7-3-97

Jicarilla G-1A
Sec 1 T26N R5W Unit D
BRG



Jicarilla G-1A
Sec. 1 T26N R5W Unit D
BROG

28' x 26' x 8'



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: *2-Jul-97*
COC No.: *5496*
Sample No.: *15089*
Job No.: *2-1000*

Project Name: **PNM Gas Services - Jicarilla G-1A**
Project Location: **9706241503; 4pt. Composite**
Sampled by: *TE* Date: *24-Jun-97* Time: *15:03*
Analyzed by: *DC/HR* Date: *2-Jul-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	197	1.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	92	95	(70-130)	3	20%

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

Approved by:

Date:

[Signature]
7/2/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *2-Jul-97*
COC No.: *5496*
Sample No.: *15089*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-1A***
Project Location: ***9706241503; 4pt. Composite***
Sampled by: *TE* Date: *24-Jun-97* Time: *15:03*
Analyzed by: *DC* Date: *30-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	21	ug/kg	1	ug/kg
<i>Toluene</i>	22	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	11	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	150	ug/kg	1	ug/kg
<i>o-Xylene</i>	14	ug/kg	1	ug/kg
	<i>TOTAL</i>	218		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: *7/2/97*

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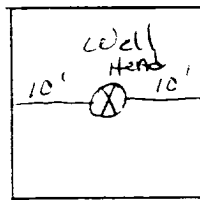
JICA-11A G-1H
Sec 1 T26N R5W Unit D
BROG

Land farm

57'

16.6 ppm

3.4 ppm



174'

11.4 ppm

12.3 ppm

2.3 ppm

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 (BROG) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla G-1A	
Location: Unit: D Sec. 1 T. 26 N R. 5 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 6/24/97 Date Completed: 7/8/97	
Remediation Method: Landfirmed ☒ Approx. cubic yards 216	
Composted ☐	
Other ☐	
Depth to Ground Water: (pts.) 5	Final Closure Sampling: Sampling Date: 7/8/97 Time 1212 Sampling Results: Field Headspace (ppm) 16.0 TPH (ppm) 30 Method 8015 Other
Distance to an Ephemeral Stream: (pts.) 5	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 5	
Wellhead Protection Area: (pts.) 5	
Distance to Surface Water: (pts.) 5	
Ranking Score (Total Points): 5	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE 7/17/97 PRINTED NAME Ronald A. Dedrick	
SIGNATURE Ronald A. Dedrick 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) we are Backfill	
SIGNED: [Signature] DATE: 7-22-97	

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: *16-Jul-97*
COC No.: *5523*
Sample No.: *15292*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-1A Landfarm*
Project Location: *9707081212; 5pt. Composite*
Sampled by: *RB* Date: *8-Jul-97* Time: *12:12*
Analyzed by: *DC/HR* Date: *14-Jul-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>	30	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	195	2.5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	83	87	(70-130)	5	20%

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

Approved by: *[Signature]*
Date: *7/16/97*

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