

DEPUTY OIL & GAS INSPECTOR:

FEB 20 1989

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (BROG) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla G-10 m

Location: Unit: I Sec. 12 T. 26 N. R. 5 W. County Rio Arriba

Pit Type: Separator Dehydrator X Other

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 24' width 23' depth 4'

(Attach diagram) Reference: wellhead X other _____

Footage from reference: 120'

Direction from reference: 45 Degrees East ← North
of
West South

Depth to Ground Water:

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

RECEIVED
NOV - 3 1997

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)

OIL CON. DIV.
PG. 3

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) :

Date Remediation Started: 6/18/97 Date Completed: 8/25/97

Remediation Method: Excavation X Approx. Cubic Yards 82

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 82

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 readings.
Bottom of pit is rock.

Ground Water Encountered: No X 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 4'

Sample date 6/18/97 Sample time 1118

Sample Results

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

Total BTEX (ppm) 0.004 Toluene (ppb) _____

Field headspace (ppm) 57.1 Ethylbenzene (ppb) _____

TPH ND 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 6/26/97 PRINTED NAME Ronald A. Dedrick

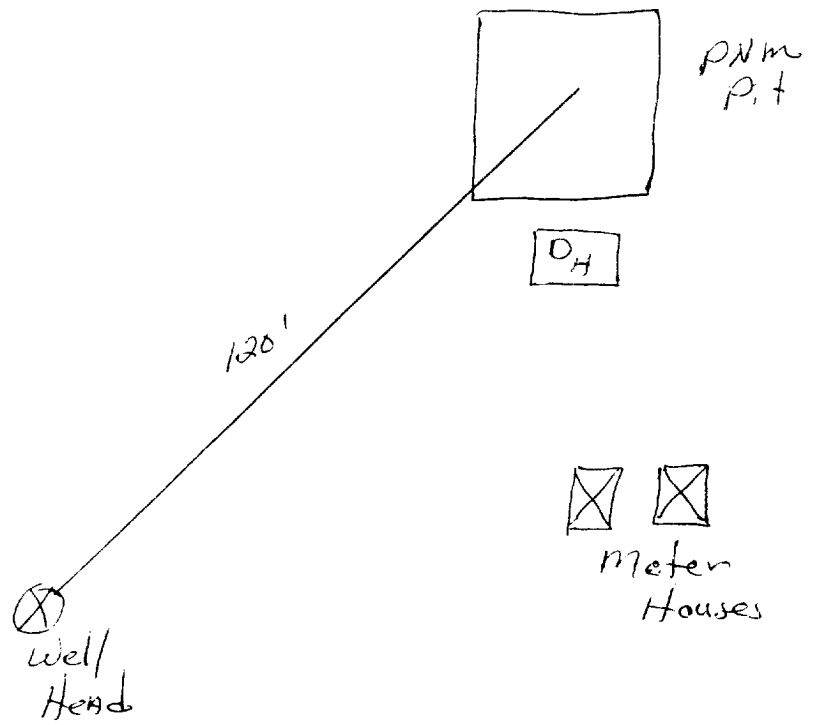
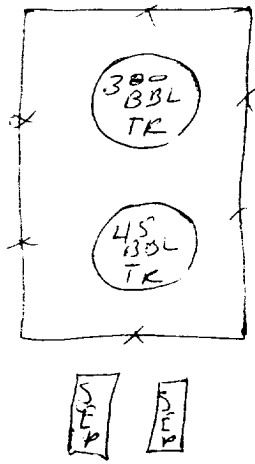
SIGNATURE Ronald A Dedrick AND TITLE Environmental Technician II

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

APPROVED: YES X NO _____ (REASON): SPRAY & close

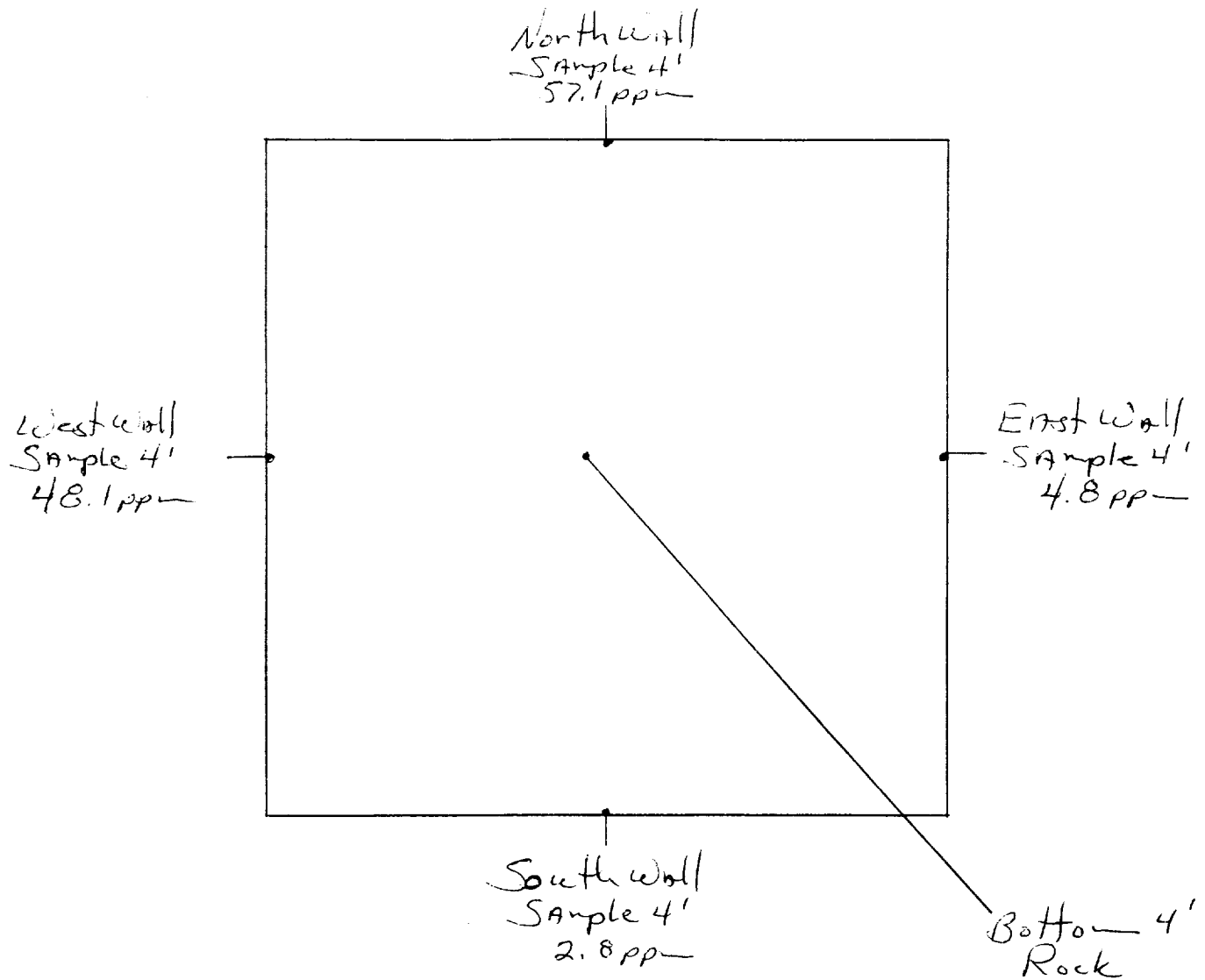
SIGNED: Kerr C Marshall DATE: 6-27-97

JICARILLA G-101M
Sec. 12 T26N R5W Unit I
BROG



Jicarilla G-10 m
Sec. 12 T26N R5W Unit I
BROG

24'x23'x4'



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: *25-Jun-97*
COC No.: *5494*
Sample No.: *15027*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-10M*
Project Location: *9706181118; 4pt. Composite*
Sampled by: *MK*
Analyzed by: *DC/HR*
Sample Matrix: *Soil*

Date: *18-Jun-97* Time: *11:18*
Date: *24-Jun-97*

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	194	2.8	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	96	97	(70-130)	1	20%

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

Approved by: *[Signature]*
Date: *6/25/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *25-Jun-97*
COC No.: *5494*
Sample No.: *15027*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-10M*
Project Location: *9706181118; 4pt. Composite*
Sampled by: *MK* Date: *18-Jun-97* Time: *11:18*
Analyzed by: *HR* Date: *23-Jun-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	1	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>	2	ug/kg	1	ug/kg
	<i>TOTAL</i>	4		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: *6/25/97*

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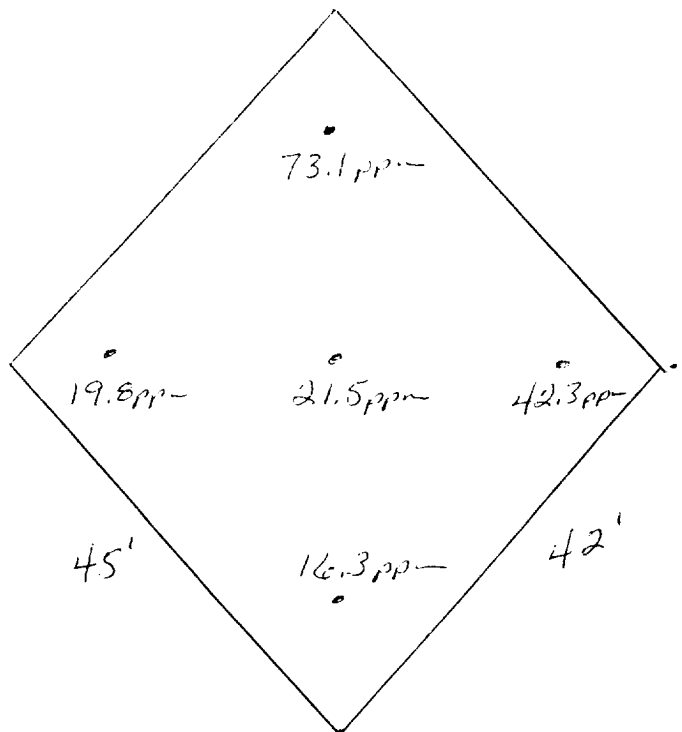
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION 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-10m</u>	
Location:	Unit: <u>I</u> Sec. <u>12</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>6/18/97</u> Date Completed: <u>7/3/97</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>82</u> Composted <u> </u> Other <u> </u>	
Depth to Ground Water: (pts.) <u>6</u> Distance to an Ephemeral Stream: (pts.) <u>6</u> Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>6</u> Wellhead Protection Area: (pts.) <u>6</u> Distance to Surface Water: (pts.) <u>6</u> Ranking Score (Total Points): <u>6</u>	Final Closure Sampling: Sampling Date: <u>7/3/97</u> Time <u>0834</u> Sampling Results: Field Headspace (ppm) <u>73.1</u> TPH (ppm) <u>48</u> Method <u>E015</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>7/9/97</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>use on Backfill</u>	
SIGNED: <u>Kearl M...</u>	DATE: <u>7-9-97</u>

11/11/11 6-10 M
Sec. 12 T26N R5W Unit I
BROG

Land Farm



75'

⊗ Well
Here

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: *8-Jul-97*
COC No.: *5510*
Sample No.: *15199*
Job No.: *2-1000*

Project Name: *PNM Gas Services -Jicarilla G-10M Landfarm*
Project Location: *9707030836; 5pt. Composite*
Sampled by: *RB* Date: *3-Jul-97* Time: *8:36*
Analyzed by: *DC/HR* Date: *8-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>	<i>48</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>185</i>	<i>7.8</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>84</i>	<i>89</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *Heidi Rees*
Date: *7/9/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -