

Denny & Fout
DEPUTY OIL & GAS INSPECTOR

FEB 26 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	13 RRG	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401			
Facility or Well Name:	Jicarilla G-10			
Location:	Unit:	B	Sec. 12	T 26 N R 5 W County Rio Arriba
Pit Type:	Separator		Dehydrator	XX Other
Land Type:	Jicarilla Apache			
Pit Location:	Pit dimensions:	length 65'	width 59'	depth 18'
(Attach diagram)	Reference:	wellhead X	other	
	Footage from reference:	75'		
	Direction from reference:	45	Degrees	East North West 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
NOV - 3 1997
OIL CON. DIV.
DIST. 3

Date Remediation Started: 6/18/97 Date Completed: 8/21/97

Remediation Method: Excavation X Approx. Cubic Yards 2,557

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 2,557

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 three side walls
17s to get a below 100ppm head space reading.
Bottom is solid rock. The East wall was totally
removed because it was the side of the location.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North, South And West side walls.

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

Sample depth 17'

Sample date 6/23/97 Sample time 1030

Sample Results

Soil: Benzene (ppm) 0.005 Water: Benzene (ppb) _____

Total BTEX (ppm) 0.207 Toluene (ppb) _____

Field headspace (ppm) 52.2 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 7/2/97 PRINTED NAME Ronald A. Dedrick

SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

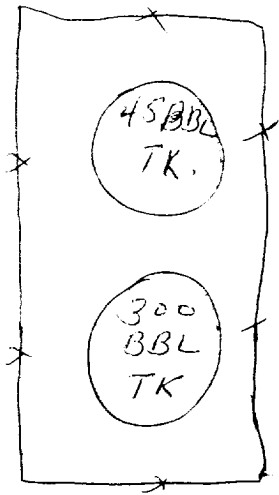
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Kurt C. Munn DATE: 7-3-97

JICA 11119 G-10
Sec. 12 T26N R5W Unit B
BROG

15x2



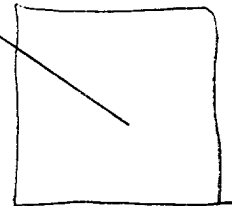
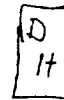
Well
Head



75'



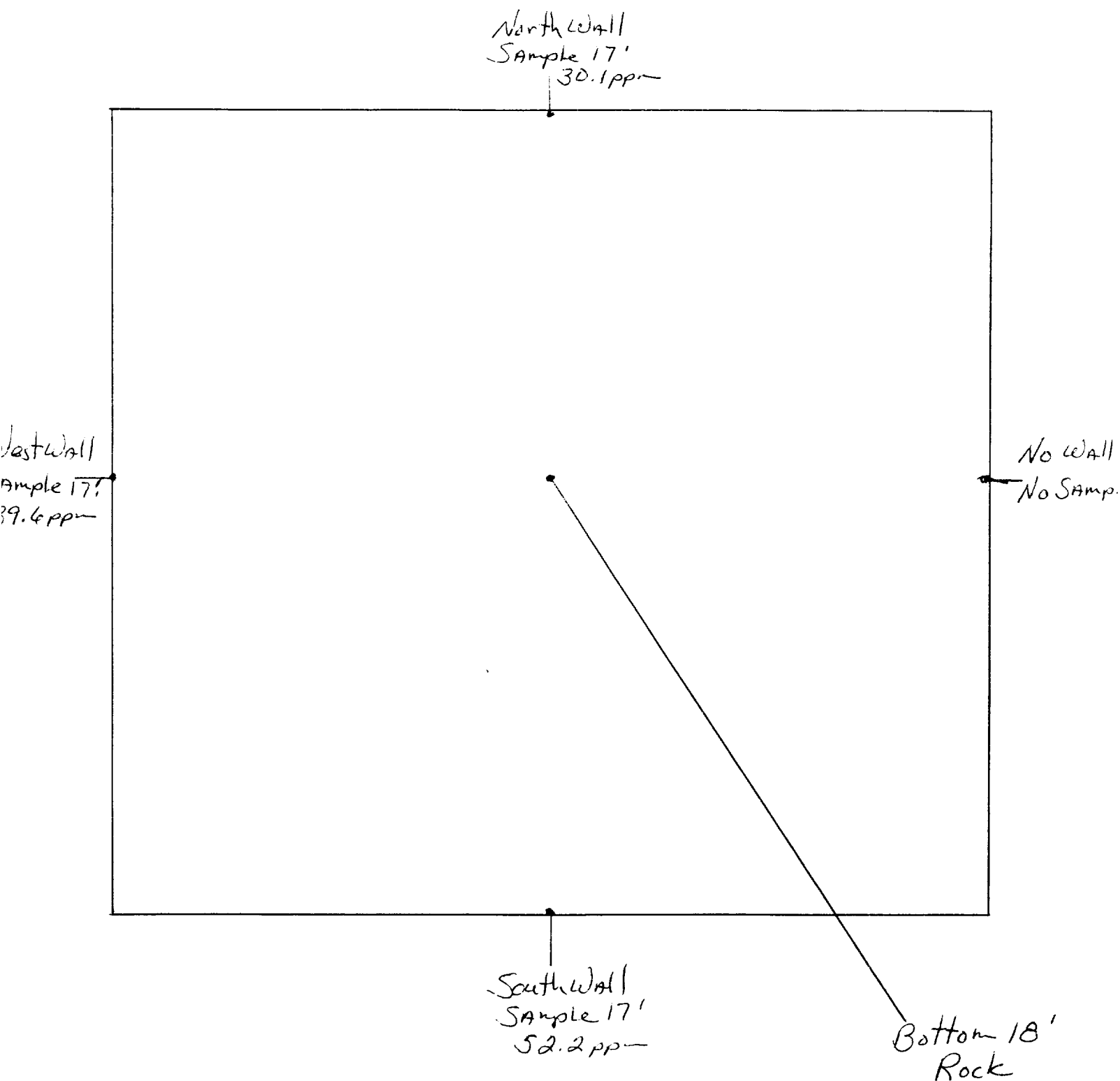
meter
House



pump
pit

Jicarilla G-10
Sec. 12 T24N R5W Unit B
BROG

65'x59'x18'



5' Sample - 378 ppm
0' Sample - 254 ppm
5' Sample - 415 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: *2-Jul-97*
COC No.: *5478*
Sample No.: *15094*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-10***
Project Location: ***9706231030; 3pt. Composite***
Sampled by: *TE* Date: *23-Jun-97* Time: *10:30*
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	204	2.2	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: *2/7/97*

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- 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.: *5478*
Sample No.: *15094*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-10***
Project Location: ***9706231030; 3pt. Composite***
Sampled by: *TE* Date: *23-Jun-97* Time: *10:30*
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>	5	ug/kg	1	ug/kg
<i>Toluene</i>	9	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	19	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	148	ug/kg	1	ug/kg
<i>o-Xylene</i>	26	ug/kg	1	ug/kg
	<i>TOTAL</i>	207		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: *6/27/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

3

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 (13206) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla G-10
Location: Unit: 13 Sec. 12 T. 24 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 6/12/97 Date Completed: 8/15/97
Remediation Method: Landfarmed X Approx. cubic yards 839
Composted —
Other —

Depth to Ground Water: (pts.) 5
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

Final Closure Sampling:
Sampling Date: 8/14/97 Time 0915
Sampling Results:
Field Headspace (ppm) 51.1
TPH (ppm) 25 Method 8015
Other —

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

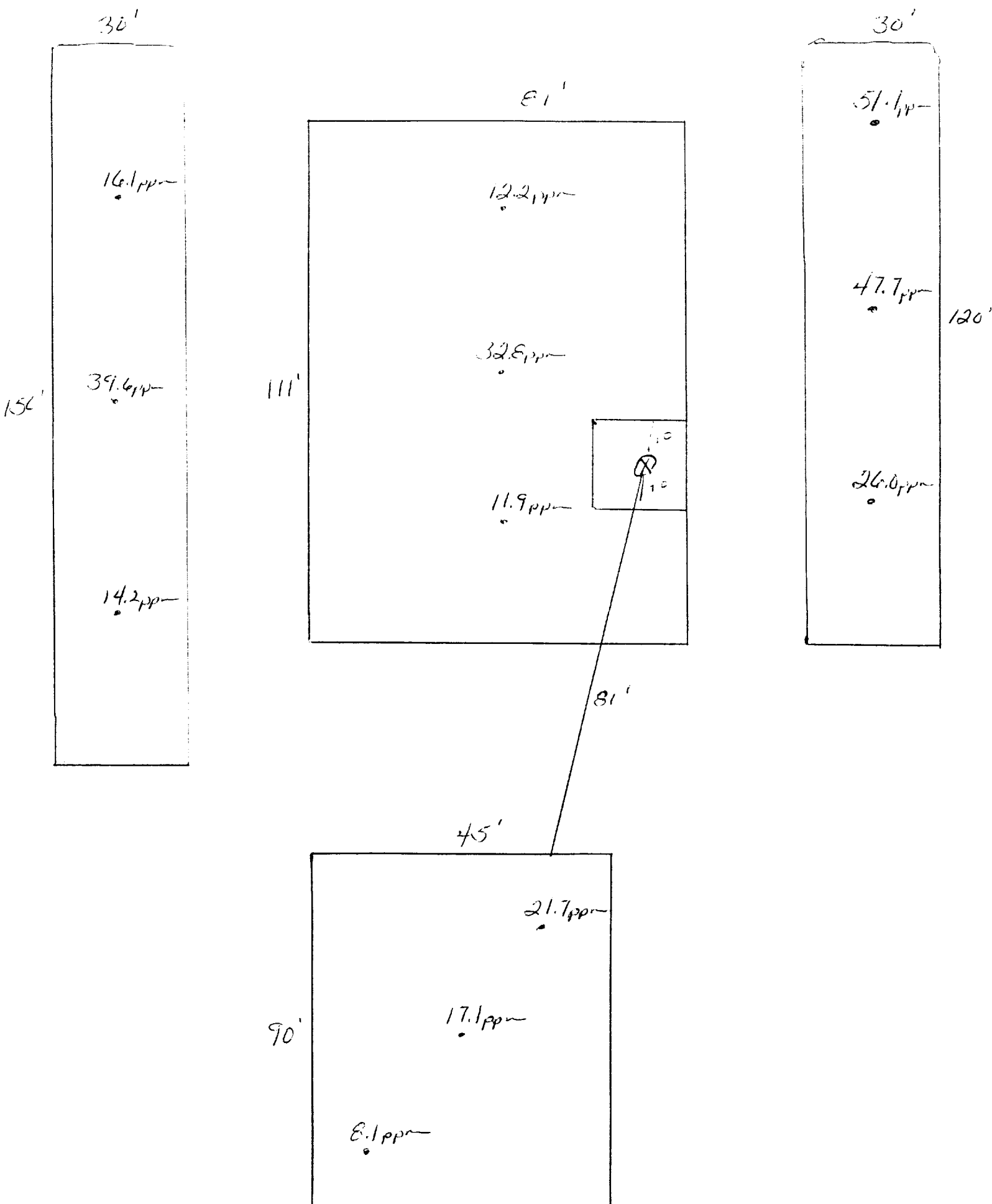
DATE 8/14/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

APPROVED: YES X NO — (REASON) use as Backfill
SIGNED: Kevin C. Mamm DATE: 8-18-97

Jickilla G-10
Sec. 12 T24N R5W Unit B
BROG

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: *18-Aug-97*
COC No.: *5544*
Sample No.: *15780*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-10 Landfarm*
Project Location: *9708140915; 12pt. Composite*
Sampled by: *RB* Date: *14-Aug-97* Time: *9:15*
Analyzed by: *HR/DC* Date: *15-Aug-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>25</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

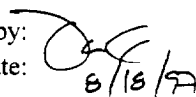
Continuing Calibration Verification

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>194</i>	<i>2.9</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>83</i>	<i>85</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: 
Date: *8/18/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

#2

JICARILLA APACHE TRIBE
ENVIRONMENTAL
PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

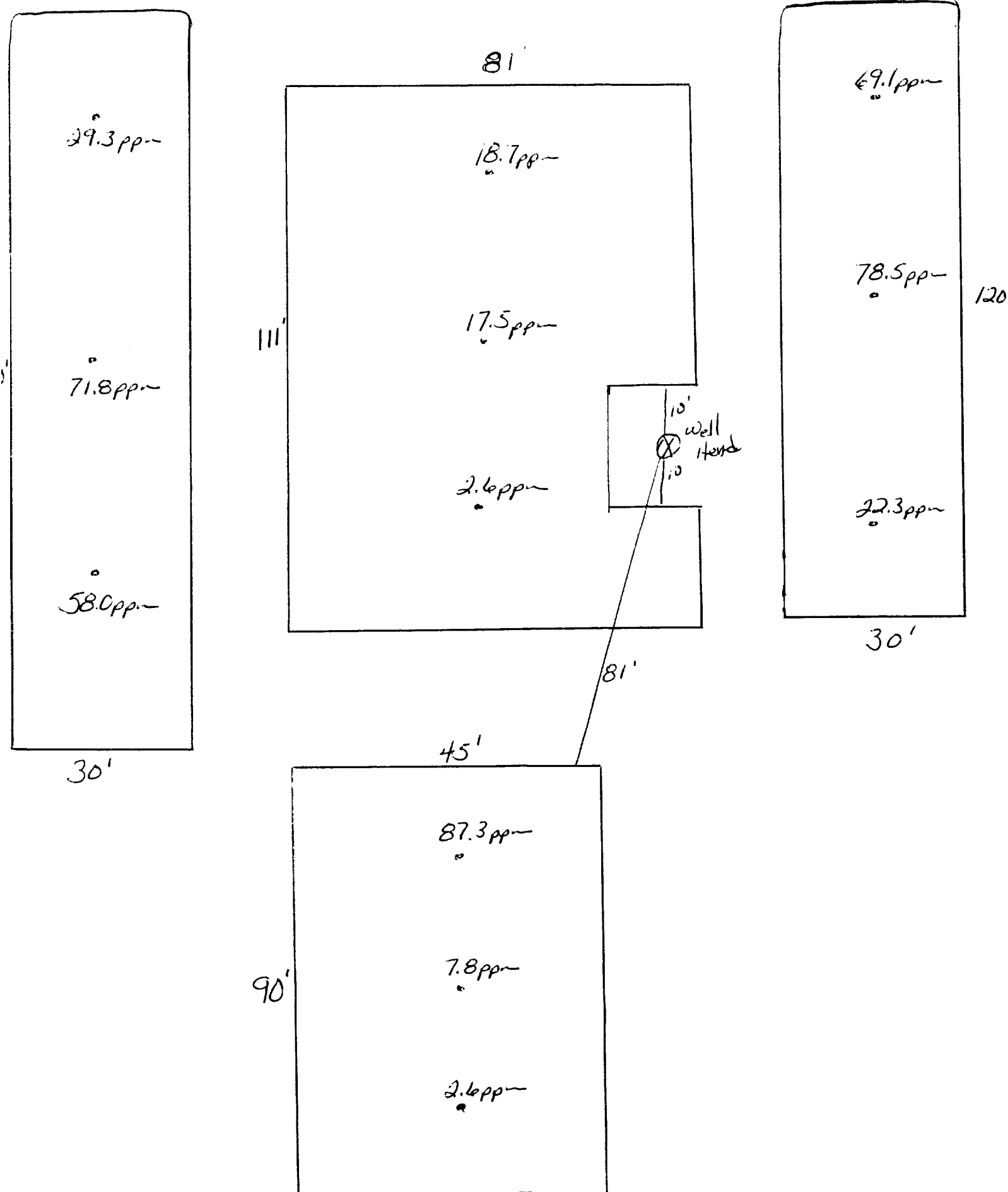
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services (BRCG)</u> Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla G-10</u>	
Location: Unit: <u>B</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: _____	
Remediation Method: Landfarmed ☒ Approx. cubic yards <u>746</u>	
Composted ☐	
Other ☐	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>7/30/97</u> Time <u>1512</u> Sampling Results: Field Headspace (ppm) <u>87.3</u> TPH (ppm) <u>42</u> Method <u>8015</u> Other _____
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>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE <u>8/7/97</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 ☒ NO ☐ (REASON) <u>use as Backfill</u> SIGNED: <u>Kenn C. Mann</u> DATE: <u>8-12-97</u>	

Jicarilla G-10
Sec 12 T26N R5W unit B
BROG

Land firm



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: *5-Aug-97*
COC No.: *5532*
Sample No.: *15544*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-10 Landfarm*

Project Location: *9707301512; 12pt. Composite*

Sampled by: *RB* Date: *30-Jul-97* Time: *15:12*

Analyzed by: *HR/DC* Date: *4-Aug-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>42</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>198</i>	<i>0.8</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>112</i>	<i>98</i>	<i>(70-130)</i>	<i>7</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *8/5/97*

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- TECHNOLOGY PREPARING INDUSTRY WITH THE ENVIRONMENT -

#1

JICARILLA APACHE TRIBE
ENVIRONMENTAL
PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

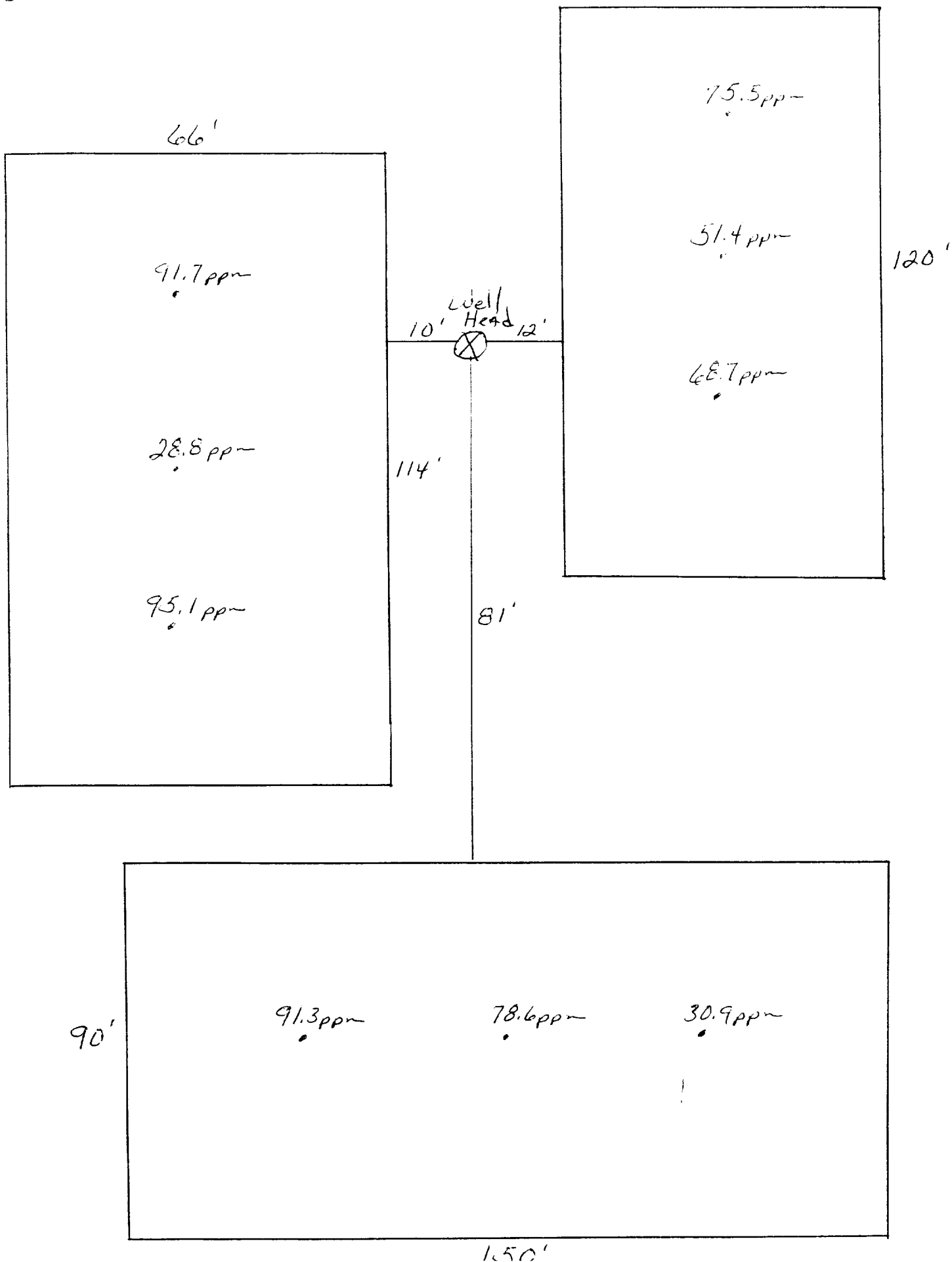
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

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-10	
Location: Unit: B Sec. 12 T. 26 N R. 5 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 6/18/97 Date Completed: 7/8/97	
Remediation Method: Landfarmed ☒ Approx. cubic yards 9.52 Composted ☐ RAD Other ☐	
Depth to Ground Water: (pts.) 6	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.) 6	Sampling Date: 7/8/97 Time 1029
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 6	Sampling Results:
Wellhead Protection Area: (pts.) 6	Field Headspace (ppm) 95.1
Distance to Surface Water: (pts.) 6	TPH (ppm) 49 Method 8015
Ranking Score (Total Points): 6	Other
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) Use as Beneficial	
SIGNED: Kevin C. Mammill	DATE: 7-22-97

Jicarilla G-10
Sec. 12 T26N R5W Unit B
BROG.

Land farm 39'



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.: *15290*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-10 Landfarm***

Project Location: ***9707081029; 9pt. Composite***

Sampled by: *RB* Date: *8-Jul-97* Time: *10:29*

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>	<i>49</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>195</i>	<i>2.5</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>83</i>	<i>87</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: *[Signature]*

Date: *7/16/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -