

Denny L. Holt
DEPUTY OIL & GAS INSPECTOR

FEB 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 (<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-5m</u>							
Location:	Unit:	<u>F</u>	Sec. <u>12</u>	T. <u>26</u> N	R. <u>5</u> W	County	<u>Rio Arriba</u>	
Pit Type:	Separator	<u> </u>	Dehydrator	<u>XX</u>	Other	<u> </u>		
Land Type:	<u>Jicarilla Apache</u>							
Pit Location:	Pit dimensions:		length	<u>48'</u>	width	<u>47'</u>	depth	<u>6'</u>
(Attach diagram)	Reference:	wellhead	<u>X</u>	other	<u> </u>			
	Footage from reference:		<u>155'</u>					
	Direction from reference:		<u>Straight</u> Degrees	<u> </u> East	North	<u> </u>		
				<u> </u> West	of	South	<u>X</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)	<u>0</u>			
			Greater than 100 feet	(0 points)	<u>0</u>			
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)	<u>0</u>			
Distance to Surface Water:	(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet	(20 points)	<u>0</u>			
			200 feet to 1,000 feet	(10 points)	<u>0</u>			
			Greater than 1,000 feet	(0 points)	<u>0</u>			
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)	<u>0</u>			
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)	<u>0</u>			
			Greater than 100 feet	(0 points)	<u>0</u>			
RANKING SCORE (TOTAL POINTS):					<u>0</u>			

Date Remediation Started: 6/17/97 Date Completed: 7/28/97

Remediation Method: Excavation X Approx. Cubic Yards 501

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 501

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 was solid 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 5'

Sample date 6/17/97 Sample time 1459

Sample Results

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

Total BTEX (ppm) 0.014 Toluene (ppb) _____

Field headspace (ppm) 73.8 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

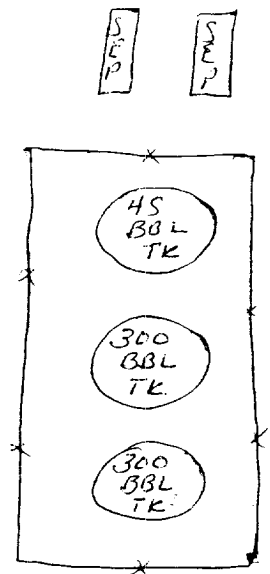
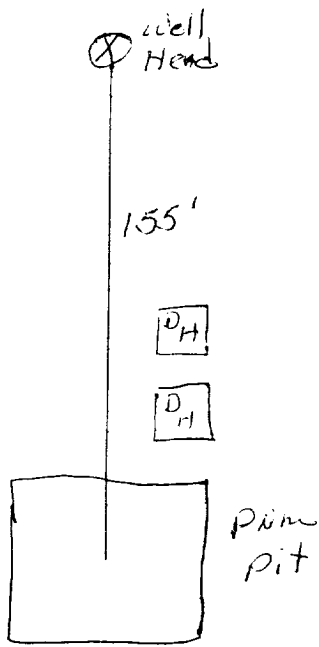
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

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

SIGNED: Kenneth M. Munnell DATE: 6-27-97

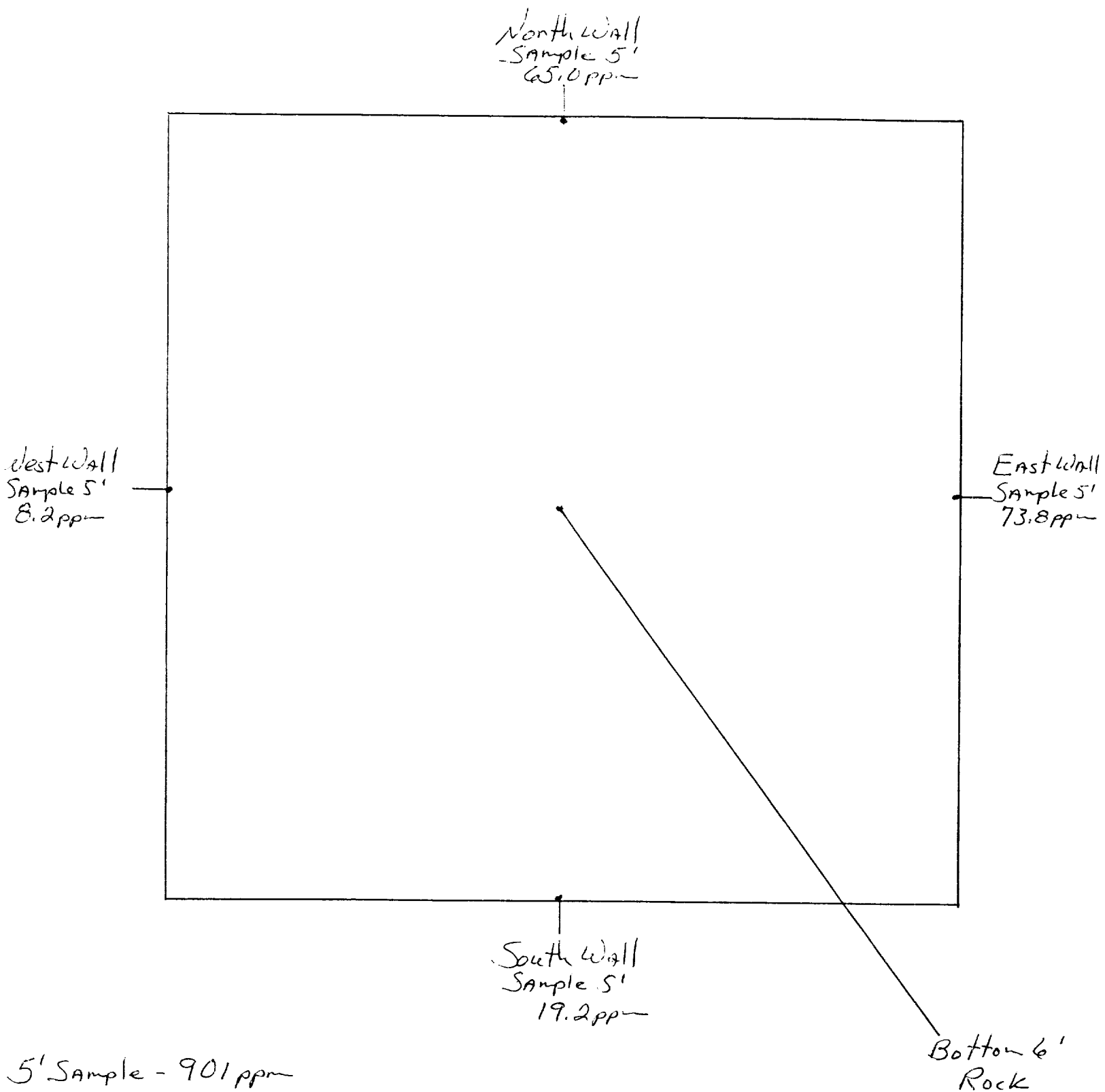
JICARILLA G-517
Sec. 12 T26N R5W Unit F
BROG

Meter 
Houses 



JICA 1119 G-5 M
Sec. 12 T26N R5W Unit F
BROG

48' x 47' x 6'



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.: *5493*
Sample No.: *15024*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-5M*
Project Location: *9706171459; 4pt. Composite*
Sampled by: *MK* Date: *17-Jun-97* Time: *14:59*
Analyzed by: *DC/HR* Date: *24-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>	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

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Project Location: *9706171459; 4pt. Composite*

Sampled by: *MK* Date: *17-Jun-97* Time: *14:59*
Analyzed by: *HR* Date: *24-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>	1	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	5	ug/kg	1	ug/kg
<i>o-Xylene</i>	8	ug/kg	1	ug/kg
	<i>TOTAL</i>	14		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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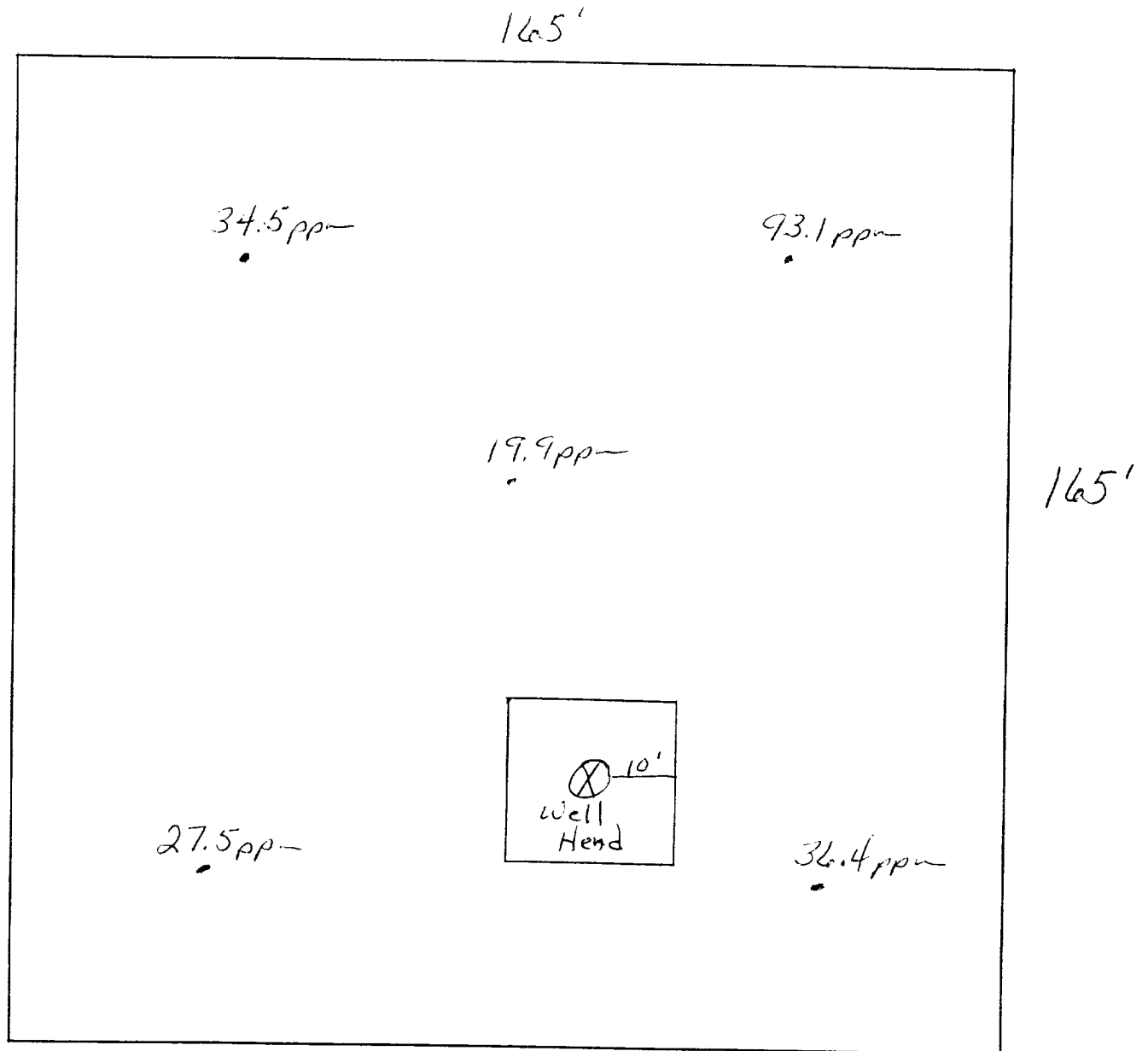
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ADMINISTRATION

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-5m</u>	
Location: Unit: <u>F</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>6/17/97</u> Date Completed: <u>7/3/97</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>501</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>7/3/97</u> Time <u>0812</u> Sampling Results: Field Headspace (ppm) <u>93.1</u> TPH (ppm) <u>ND</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>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 as Backfill</u>	
SIGNED: <u>Kees C. Munn</u> DATE: <u>7-9-97</u>	

JICARILLA G-5112
Sec. 12 T26N R5W Unit F
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: *8-Jul-97*
COC No.: *5510*
Sample No.: *15198*
Job No.: *2-1000*

Project Name: *PNM Gas Services -Jicarilla G-5M Landfarm*
Project Location: *9707030812; 5pt. Composite*
Sampled by: *RB* Date: *3-Jul-97* Time: *8:12*
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>	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	185	7.8	15%

Matrix Spike

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

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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