

JICARILLA APACHE TRIBE

DEPUTY OIL & GAS INSPECTOR

ENVIRONMENTAL PROTECTION OFFICE

OCT 28 1997

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: Arizona Tigarilla #6

Location: Unit: P Sec. 36 T. 25 N R. 4 W County Rio Arriba

Pit Type:	Separator	<input checked="" type="checkbox"/>	Dehydrator	<input type="checkbox"/>	Other	<input type="checkbox"/>
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Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 76' width 68' depth 11

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 51'

Direction from reference: Straight Degrees _____ East _____ North _____
X West _____ South _____

Depth to Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of 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) :

Date Remediation Started: 4/15/97 Date Completed: 6/2/97

Remediation Method: Excavation X Approx. Cubic Yards 1641

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 1641

Other _____

Remediation Location: Onsite X - 507 cu yds Offsite TNT - 1134 cu. yds.
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls and pit bottom as to get a below 100 ppm head space reading.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North, East, South West side walls and pit bottom,

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

Sample depth 11'

Sample date 4/16/97 Sample time 1533

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 58.4 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 4/24/97 PRINTED NAME Ronald A. Dedrick

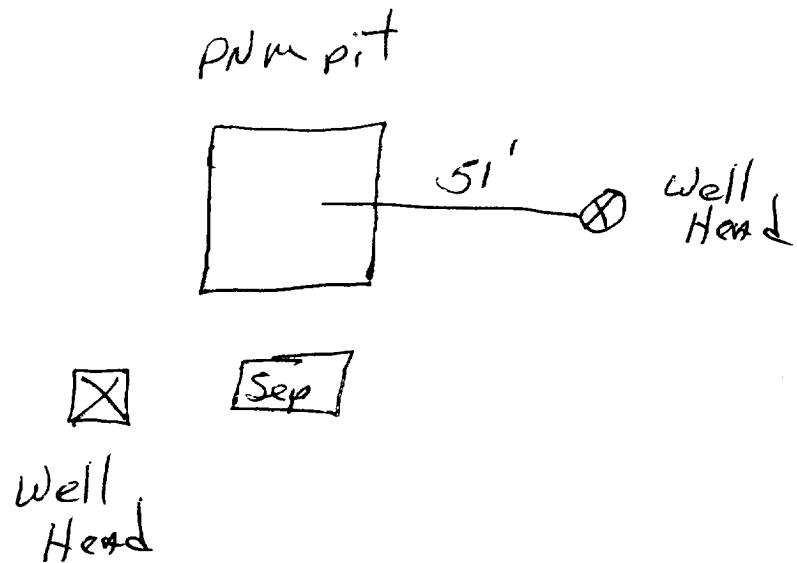
SIGNATURE Ronald A Dedrick AND TITLE Environmental Technician II

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

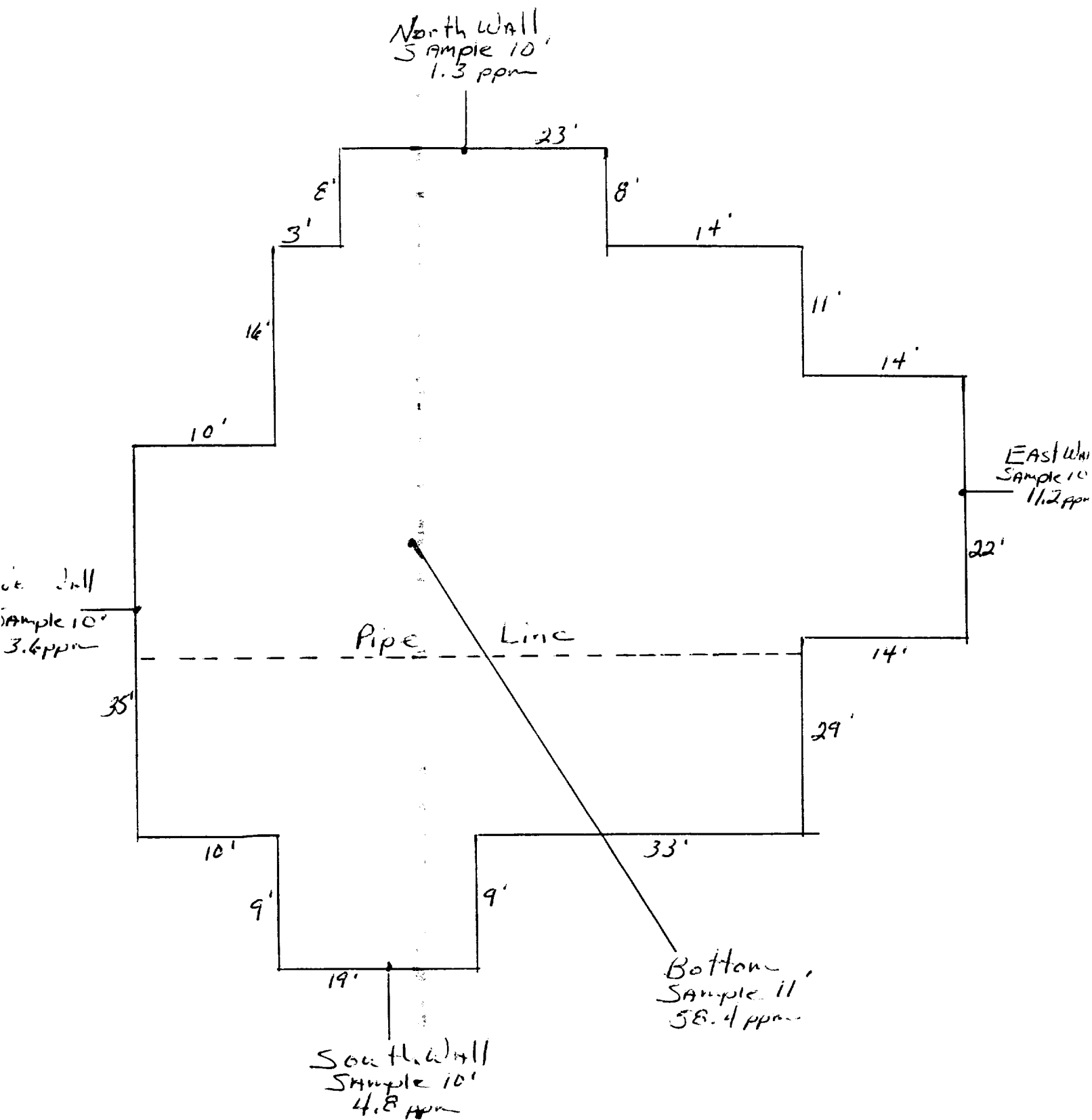
APPROVED: YES X NO _____ (REASON): _____

SIGNED: Ken C. Mammill DATE: 4-28-97

Arizona Jicarilla G
Sec. 36 T25N R4W Unit P
BROG



Arizona Jicarilla #6
 Sec. 36 T25N R4W Unit P
 BR06



5 Sample - 665 ppm
 10' Sample - 180 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: *22-Apr-97*
COC No.: *5393*
Sample No.: *14261*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla #6 Run 12-61*

Project Location: *9704161533; 5pt. Composite*

Sampled by: *PA* Date: *16-Apr-97* Time: *15:33*

Analyzed by: *DC/HR* Date: *18-Apr-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	104	4.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	94	(70-130)	11	20%

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

Approved by: *[Signature]*

Date: *4/22/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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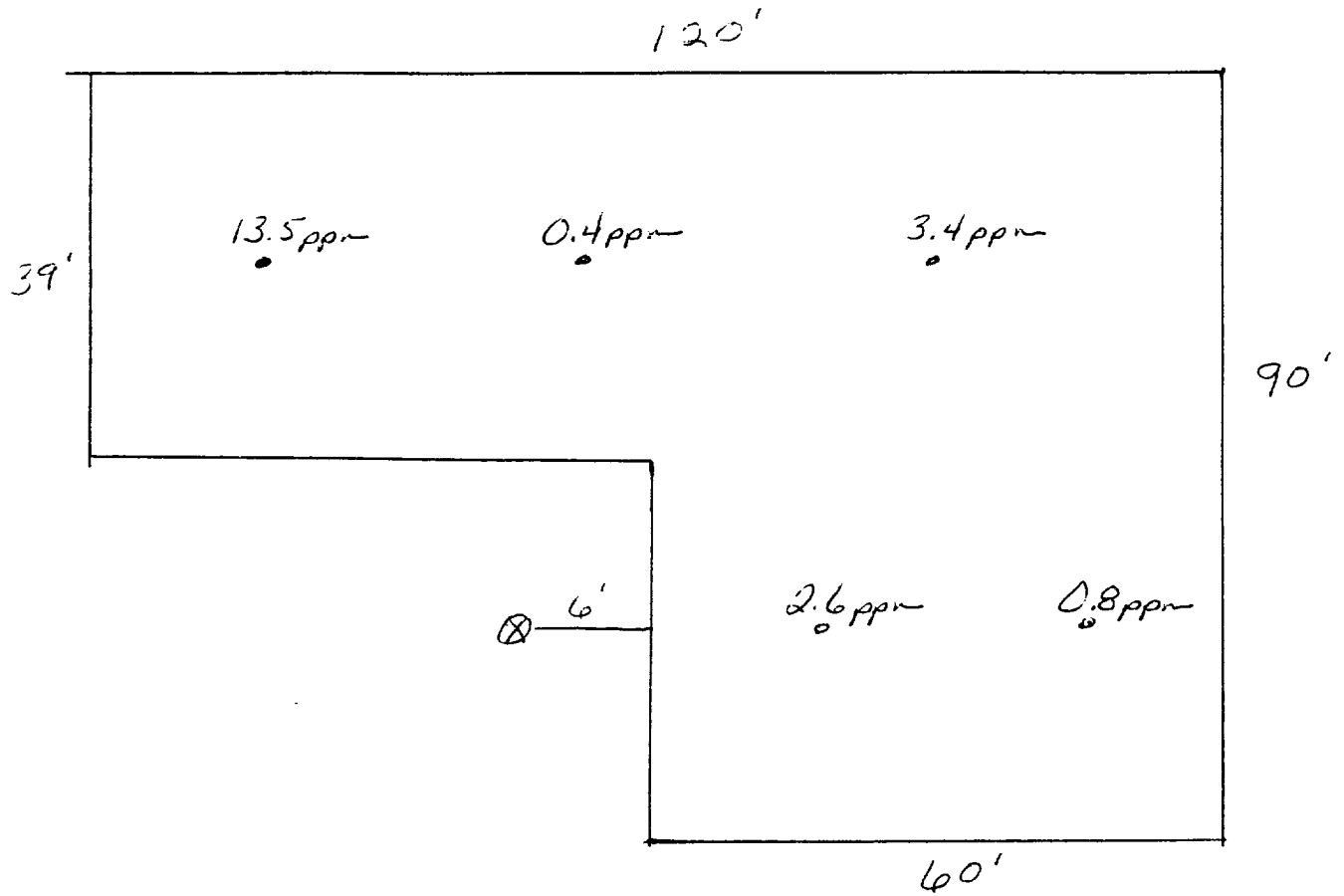
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

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>Arizona Jicarilla #6</u>	
Location: Unit: <u>P</u> Sec. <u>36</u> T. <u>25</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>4/15/97</u> Date Completed: <u>5/6/97</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>507</u> Composted <u> </u> Other <u> </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>5/6/97</u> Time <u>0958</u> Sampling Results: Field Headspace (ppm) <u>13.5</u> TPH (ppm) <u>ND</u> Method <u>8015</u> Other <u> </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>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>5/9/97</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> </u>	
SIGNED: <u>Kurt C Marshall</u> DATE: <u>5-14-97</u>	

Arizona JICARILLA &
Sec. 36 T25N R4W Unit P
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: *9-May-97*
COC No.: *5442*
Sample No.: *14445*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla #6 Landfarm Run 12-61*
Project Location: *9705060958; 5pt. Composite*
Sampled by: *RB* Date: *6-May-97* Time: *9:58*
Analyzed by: *HR/DC* Date: *8-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	105	4.8	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	101	102	(70-130)	1	20%

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

Approved by: *[Signature]*
Date: *5/9/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -