

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

JUN 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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Conoco) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla A-10E  
Location: Unit: C Sec. 23 T. 26 N R. 4 W County Rio Arriba  
Pit Type: Separator Dehydrator XX Other  
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 40' width 30' depth 13'  
(Attach diagram) Reference: wellhead X other  
Footage from reference: 99'  
Direction from reference: Straight Degrees East North X  
West of 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: 9/2/97 Date Completed: 10/6/97

Remediation Method: Excavation X Approx. Cubic Yards 578

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 578

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 reading. Bottom 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 12'

Sample date 9/3/97 Sample time 1004

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.001 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 7.3 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 9/11/97 PRINTED NAME Ronald A. Dedrick

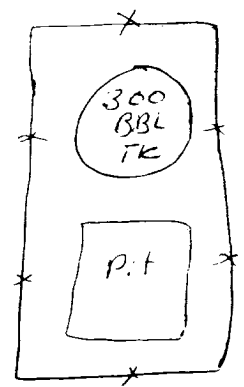
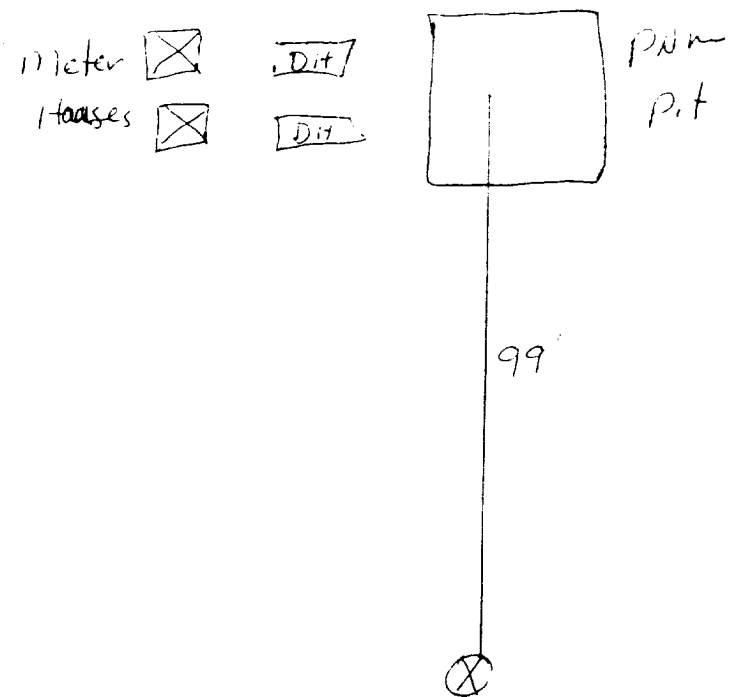
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

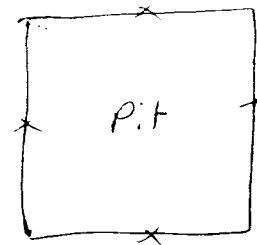
APPROVED: YES X NO \_\_\_\_\_ (REASON): Spay & close

SIGNED: Kurt M. [Signature] DATE: 9-18-97

Jicarilla A-10E  
Sec. 23 T26N R4W Unit G  
Conoco

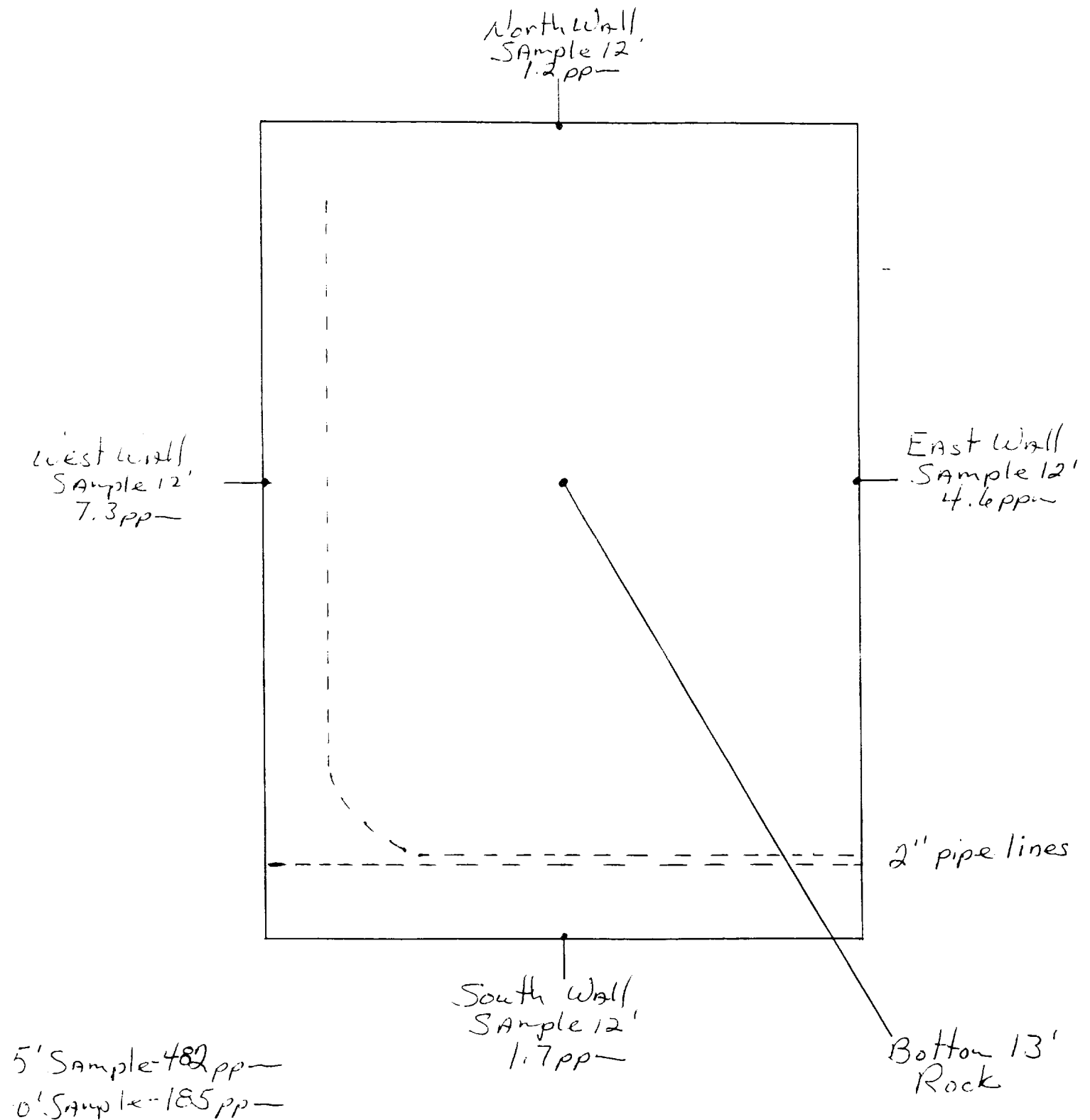


1. Sep



Jicarilla A-10E  
Sec 23 T26N R4W Unit G  
Cenoco

40' x 30' x 13'



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: *10-Sep-97*  
COC No.: *5576*  
Sample No.: *16043*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla A-10E***  
Project Location: ***9709031004***  
Sampled by: SA  
Analyzed by: DC/HR  
Sample Matrix: *Soil*

Date: *3-Sep-97* Time: *10:04*  
Date: *9-Sep-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.: 0555-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	190	5.1	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	82	77	(70-130)	6	20%

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

Approved by: *[Signature]*  
Date: *9/10/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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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-Sep-97*  
COC No.: *5576*  
Sample No.: *16043*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-10E*  
Project Location: *9709031004*  
Sampled by: *SA* Date: *3-Sep-97* Time: *10:04*  
Analyzed by: *DC* Date: *5-Sep-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>	1	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	1		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: *9/8/97*

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

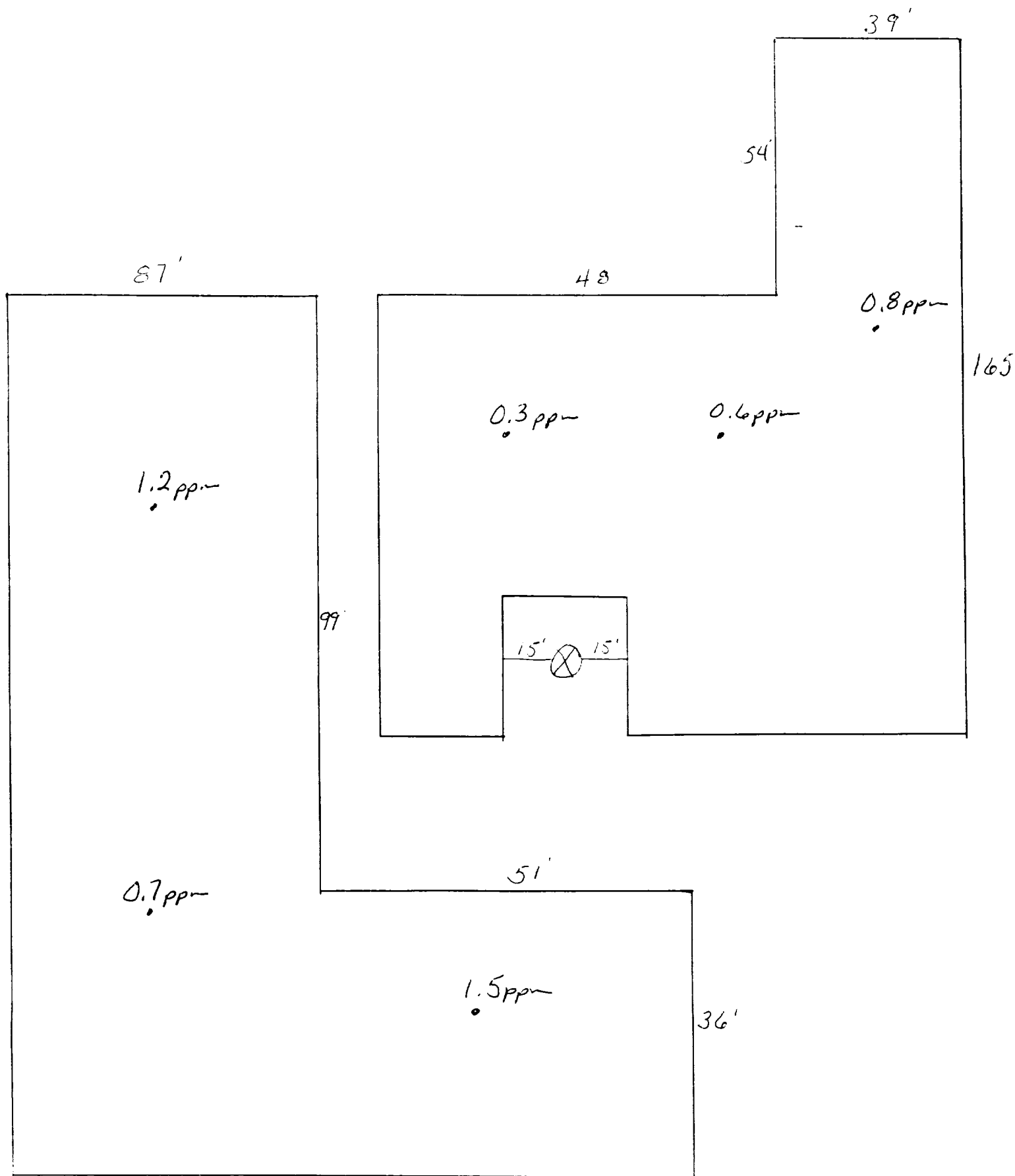
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services (Cancer) <b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401	
<b>Facility or Well Name:</b> Jicarilla A-10 E	
<b>Location:</b> Unit: <u>G</u> Sec. <u>23</u> T. <u>26</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
<b>Land Type:</b> Jicarilla Apache	
<b>Date Remediation Started:</b> <u>9/2/97</u> <b>Date Completed:</b> <u>9/19/97</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> <b>Approx. cubic yards:</b> <u>578</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
<b>Depth to Ground Water:</b> (pts.) <u>4</u>	<b>Final Closure Sampling:</b>
<b>Distance to an Ephemeral Stream:</b> (pts.) <u>4</u>	<b>Sampling Date:</b> <u>9/16/97</u> <b>Time:</b> <u>1509</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>4</u>	<b>Sampling Results:</b>
<b>Wellhead Protection Area:</b> (pts.) <u>4</u>	<b>Field Headspace (ppm):</b> <u>1.5</u>
<b>Distance to Surface Water:</b> (pts.) <u>4</u>	<b>TPH (ppm):</b> <u>6</u> <b>Method:</b> <u>8015</u>
<b>Ranking Score (Total Points):</b> <u>4</u>	<b>Other:</b> _____
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</b>	
<b>DATE:</b> <u>9/25/97</u>	<b>PRINTED NAME:</b> <u>Ronald A. Dedrick</u>
<b>SIGNATURE:</b> <u>Ronald A. Dedrick</u>	<b>AND TITLE:</b> <u>Environmental Technician II</u>
<b>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</b>	
<b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <b>(REASON):</b> <u>we use Backfill</u>	
<b>SIGNED:</b> <u>Rebecca</u>	<b>DATE:</b> <u>9-30-97</u>

Jicarilla A-10E  
Sec 23 T26N R4W Unit G  
Cenoco

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: *23-Sep-97*  
COC No.: *5599*  
Sample No.: *16257*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-10E Landfarm*  
Project Location: *9709161514; 5pt. Composite*  
Sampled by: *RB* Date: *16-Sep-97* Time: *15:14*  
Analyzed by: *HR* Date: *19-Sep-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>6</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.: 0555-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>176</i>	<i>12.7</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>80</i>	<i>86</i>	<i>(70-130)</i>	<i>8</i>	<i>20%</i>

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

Approved by: *[Signature]*  
Date: *9/23/97*

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