

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 ( 2075 ) **Telephone:** 324-3764

**Address:** 603 W. Elm Street Farmington, NM 87401 ..

Facility or Well Name: Tigarilla A-7 Drip

**Location:** Unit: B Sec. 24 T. 26 N R. 4 W County Rio Arriba

Pit Type:      Separator      Dehydrator      Other Line Drip

**Land Type:** Jicarilla Apache

**Pit Location:** Pit dimensions: length 22' width 21' depth 7'

(Attach diagram)      Reference:      wellhead      other Drip riser

Footage from reference: 21

Direction from reference: Straight Degrees      East of 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:

8/20/97

Date Completed:

10/7/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

120(Check all  
appropriate  
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

120

Other \_\_\_\_\_

Remediation Location:

Onsite \_\_\_\_\_

Offsite

Jicarilla A-7 location(i.e., landfarmed onsite, name  
and location of offsite facility)

## General Description of Remedial Action:

Removed contaminated soil from all four side  
walls and bottom of pit to get it below 100 ppm  
head space remaining.

Ground Water Encountered:

No

X

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit Closure  
Sampling:

Sample Location

North, East, South, West side  
walls and bottom of pit.

Sample depth

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

Sample date

8/20/97

Sample time

1627

## Sample Results

Soil: Benzene (ppm) \_\_\_\_\_

Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Toluene (ppb) \_\_\_\_\_

Field headspace (ppm)

80.3

Ethylbenzene (ppb) \_\_\_\_\_

TPH VD

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

8/28/97

PRINTED NAME

Ronald A. Dedrick

SIGNATURE

Ronald A. Dedrick

AND TITLE

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

APPROVED: YES

X

NO \_\_\_\_\_

(REASON):

None

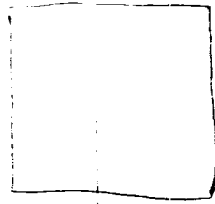
SIGNED:

Kevin M. M...

DATE:

9-3-97

Jicarilla A-7 Drip  
Sec. 24 T.26N R4W Unit B  
WFS



21'

Drip  
Riser

1000  
gal.  
TK

Jicarilla A-7 Drip  
Sec 24 T26N R4W Unit B  
WFS

22'x21'x7'

North Wall  
Sample 6'  
80.3 ppm

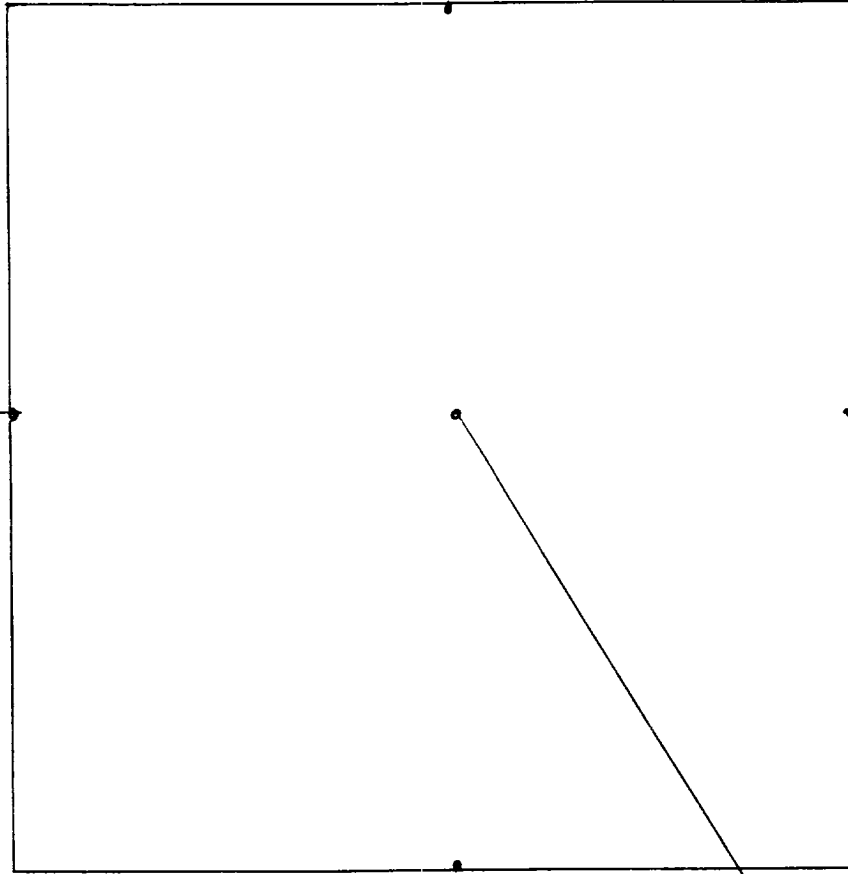
West Wall  
Sample 6'  
3.7 ppm

East Wall  
Sample 6'  
4.7 ppm

South Wall  
Sample 6'  
2.4 ppm

Bottom  
Sample 7'  
13.4 ppm

5' Sample - 127 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: *26-Aug-97*  
COC No.: *5550*  
Sample No.: *15875*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla A-7 Drip***

Project Location: ***9708201627; 5pt. Composite***

Sampled by: *TN* Date: *20-Aug-97* Time: *16:27*

Analyzed by: *HR/DC* Date: *22-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>	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	201	0.5	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	83	80	(70-130)	4	20%

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

Approved by: *[Signature]*  
Date: *8/26/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
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DULCE, NEW MEXICO 87528

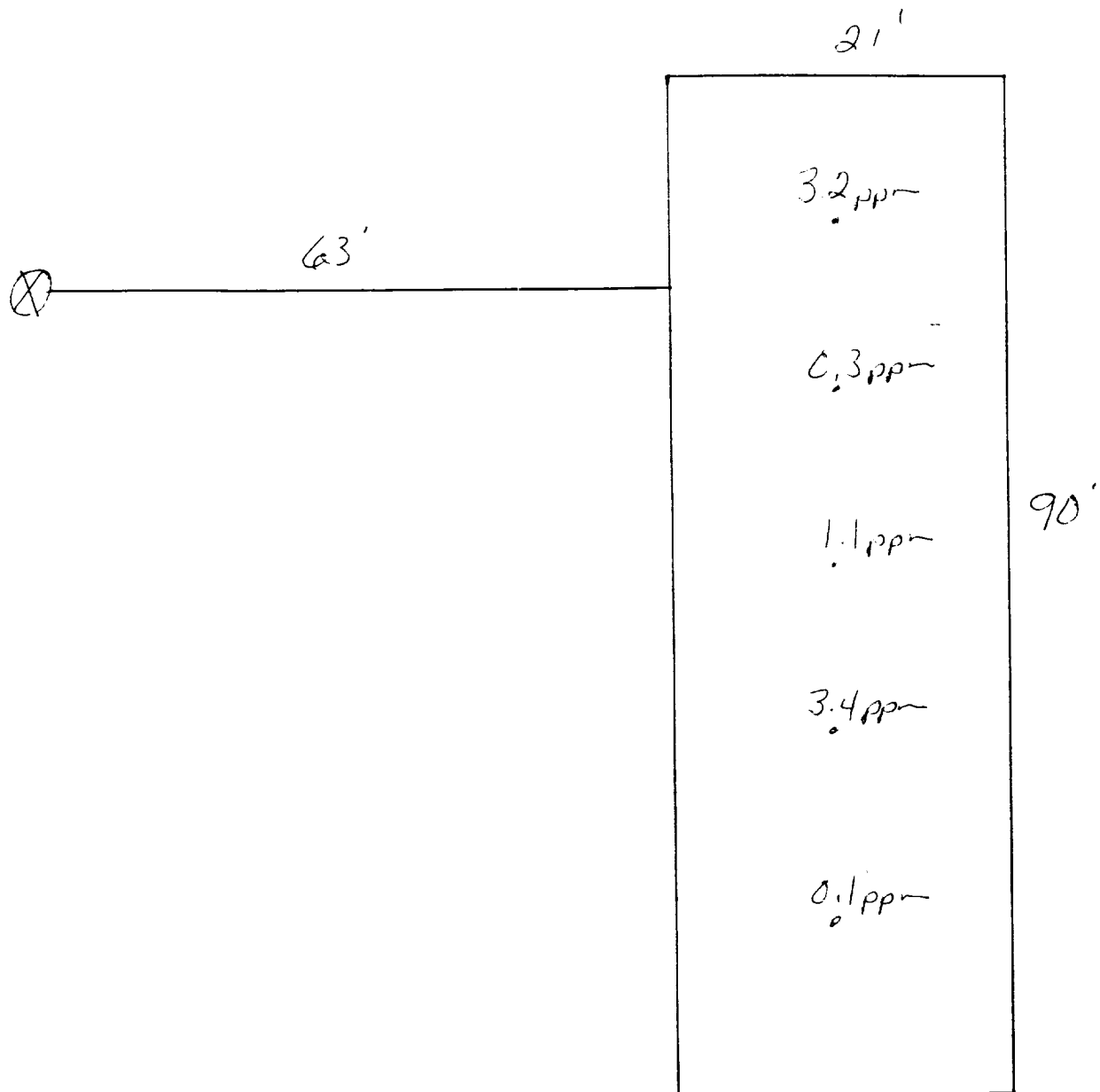
SUBMIT 1 COPY TO  
NATURAL  
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AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services ( 6075 )		<b>Telephone:</b> 324-3764
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401		
<b>Facility or Well Name:</b> Jicarilla A-7 Drip		
<b>Location:</b>	<b>Unit:</b> B	<b>Sec.</b> 24 <b>T.</b> 26 N <b>R.</b> 4 W <b>County</b> Rio Arriba
<b>Land Type:</b> Jicarilla Apache		
<b>Date Remediation Started:</b> 8/20/97		<b>Date Completed:</b> 9/8/97
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> Composted <input type="checkbox"/> Other <input type="checkbox"/>		<b>Approx. cubic yards:</b> 120
<b>Depth to Ground Water:</b> (pts.) 6		<b>Final Closure Sampling:</b> <b>Sampling Date:</b> 9/4/97 <b>Time</b> 1052 <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> 3.4 <b>TPH (ppm)</b> ND <b>Method</b> EG15 <b>Other</b>
<b>Distance to an Ephemeral Stream:</b> (pts.) 6		
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) 6		
<b>Wellhead Protection Area:</b> (pts.) 6		
<b>Distance to Surface Water:</b> (pts.) 6		
<b>Ranking Score (Total Points):</b> 6		
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF		
<b>DATE</b> 9/11/97		<b>PRINTED NAME</b> Ronald A. Dedrick
<b>SIGNATURE</b> Ronald A. Dedrick		<b>AND TITLE</b> Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE		
<b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) use as Backfill		
<b>SIGNED:</b> [Signature]		<b>DATE:</b> 9-18-97

Jicarilla A-7 Drip  
Sec. 24 T26N R4W Unit B  
WFS

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-Sep-97*  
COC No.: *5579*  
Sample No.: *16055*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-7 Drip Landfarm*

Project Location: *9709041052; 5pt. Composite*

Sampled by: *RB* Date: *4-Sep-97* Time: *10:52*

Analyzed by: *DC/HR* Date: *8-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>	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	206	2.7	15%

### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	95	85	(70-130)	10	20%

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

Approved by: *[Signature]*

Date: *9/9/97*

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