

*Jenny & Trent*  
DEPUTY OIL & GAS INSPECTOR

FEB 26 1990

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 (WFS) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla Apache 102.6 Drip

Location: Unit: K Sec. 3 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 20' width 20' depth 20'

(Attach diagram) Reference: wellhead      other Drip riser

Footage from reference: 21'

Direction from reference: 45 Degrees      East      North       
     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):**

RECEIVED  
NOV - 3 1997

OIL CON. DIV.  
DIST. 3

0

0

0

0

0

0

Date Remediation Started: 7/21/97 Date Completed: 8/13/97

Remediation Method: Excavation X Approx. Cubic Yards 296

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 296

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Jicarilla Apache 102-8  
(i.e., landfarmed onsite, name Location  
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 Bottom of pit

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

Sample depth 20'

Sample date 7/21/97 Sample time 1612

**Sample Results**

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

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

Field headspace (ppm) 89.6 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 7/29/97 PRINTED NAME Ronald A. Dedrick

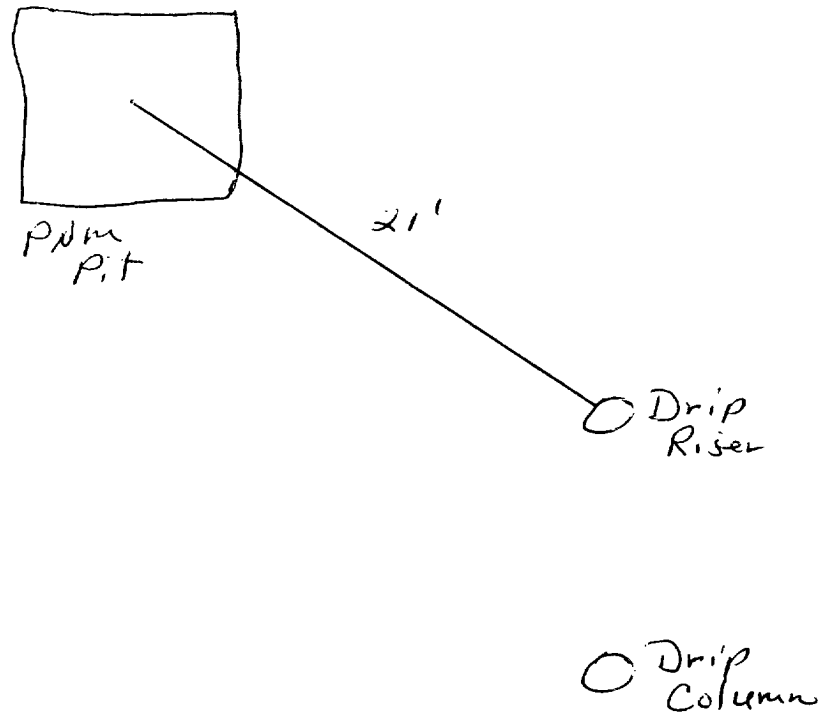
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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: Kenn C. Mamm DATE: 7-29-97

Jicarilla Apache 102-6 Drip  
Sec 3 T26N R4W Unit K  
WFS



Jicarilla Apache 102-6 Drip  
Sec. 3 T26N R4W Unit K  
WFS

20'x20'x20'

North Wall,  
Sample 19'  
14.3 ppm-

West Wall  
Sample 17'  
15.8 ppm-

East Wall  
Sample 17'  
61.4 ppm-

South Wall  
Sample 16'  
9.9 ppm-

Bottom  
Sample 20'  
89.6

5' Sample - 294 ppm-  
0' Sample - 167 ppm-  
5' Sample - 142 ppm-  
20' Sample - 89.6

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: *29-Jul-97*  
COC No.: *5519*  
Sample No.: *15473*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache 102-6 Drip*  
Project Location: *9707211612; 5pt. Composite*  
Sampled by: *PA* Date: *21-Jul-97* Time: *16:12*  
Analyzed by: *DC* Date: *25-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	198	1.0	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	94	96	(70-130)	1	20%

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

Approved by: *[Signature]*  
Date: *7/29/97*

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

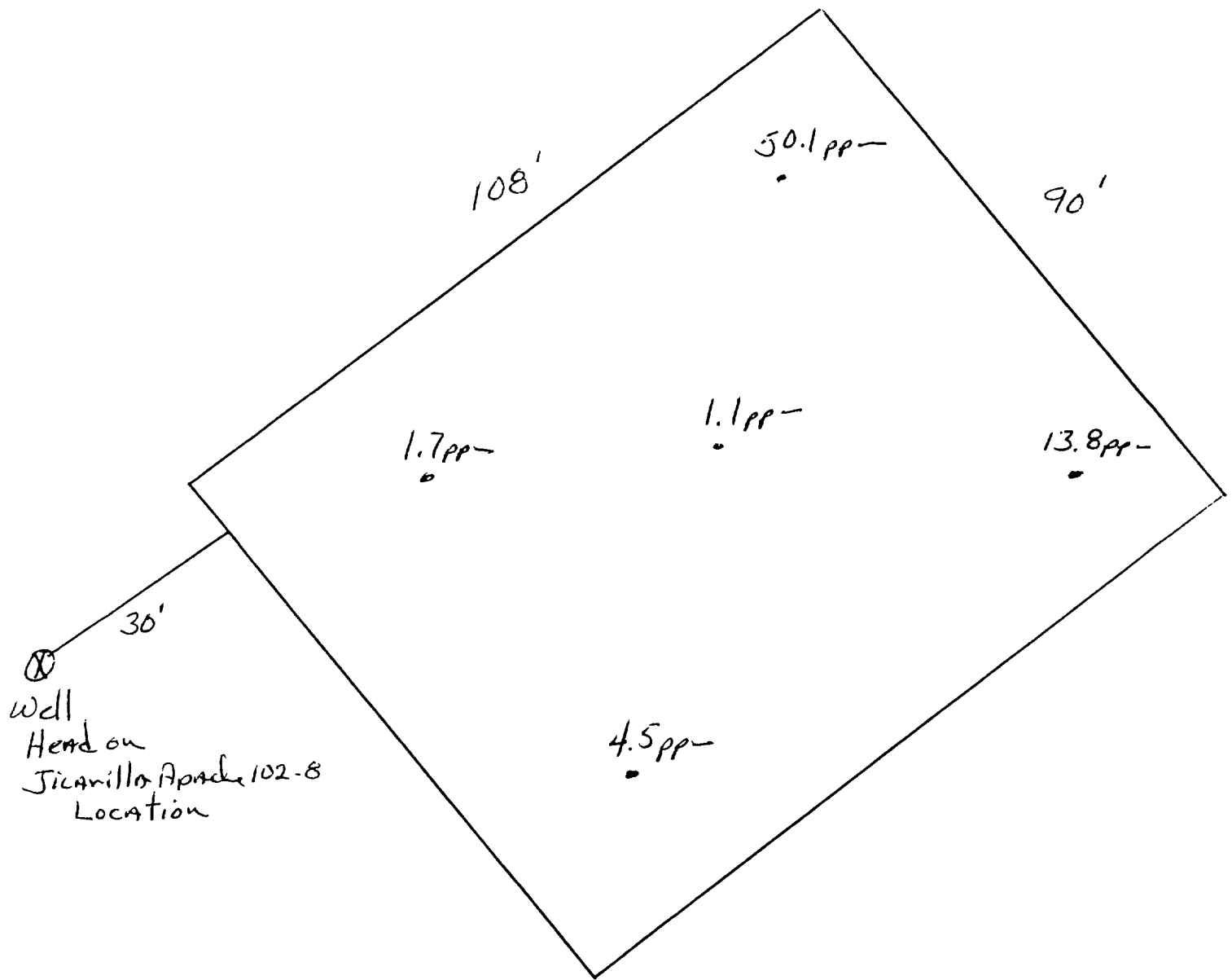
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RESOURCE DEPT  
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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services ( <u>WFS</u> ) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: <u>Jicarilla Apache 102-4 Drip</u>	
Location: Unit: <u>K</u> Sec. <u>3</u> T. <u>26</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>7/21/97</u> Date Completed: _____	
Remediation Method: Landfirmed <u>X</u> Approx. cubic yards <u>296</u>	
Composted _____	
Other _____	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>7/31/97</u> Time <u>1141</u> Sampling Results: Field Headspace (ppm) <u>50.1</u> TPH (ppm) <u>ND</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 <u>X</u> NO _____ (REASON) <u>use as Backfill</u>	
SIGNED: <u>Kee C Mando</u>	DATE: <u>8-12-97</u>

Jicarilla Apache 102-6 Drip  
Sec. 3 T26N R4W Unit K  
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: *5-Aug-97*  
COC No.: *5533*  
Sample No.: *15548*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache 102-6 Drip Landfarm*  
Project Location: *9707311141; 5pt. Composite*  
Sampled by: *RB* Date: *31-Jul-97* Time: *11:41*  
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>	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	198	0.8	15%

### Matrix Spike

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

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

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -