

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

OK  
SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION

FEB 08 1999

P.O. BOX 507  
DULCE, NEW MEXICO 87528

*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 L-8 Drip  
Location: Unit: P Sec. 33 T. 25N R. 5W County Rio Arriba  
Pit Type: Separator      Dehydrator      Other Line Drip  
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'  
(Attach diagram) Reference: wellhead      other Drip Riser  
Footage from reference: 24'  
Direction from reference: 30° 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):**

Date Remediation Started: 7/13/98 Date Completed: 9/9/98

Remediation Method: Excavation X Approx. Cubic Yards 622

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 622

Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Jicarilla L-8 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 pit bottom as to get a below 100 ppm head space reading. Excavation size: 34' x 26' x 19'

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 19'

Sample date 7/13/98 Sample time 1534

Sample Results

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

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

Field headspace (ppm) 90.2 Ethylbenzene (ppb) \_\_\_\_\_

TPH 57 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 7/26/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

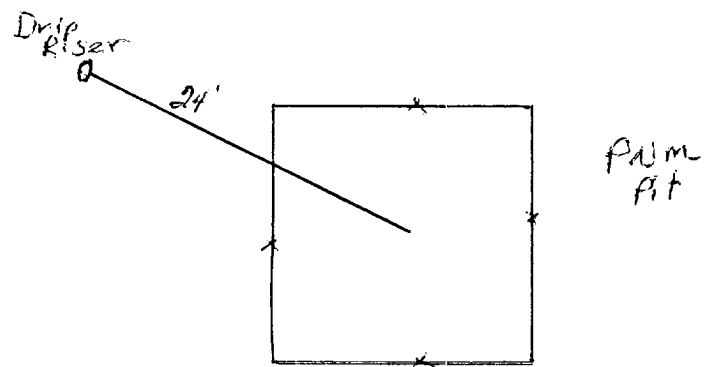
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: K. C. M... DATE: 7-28-98

JICANILLA L O Dr.p  
Sec. 33 T25N R5W Unit P  
WFS

# Site Drawing



Sec 33 TASN RSW Unit P  
WFS

# Excavation Drawing

34' x 24' x 19'

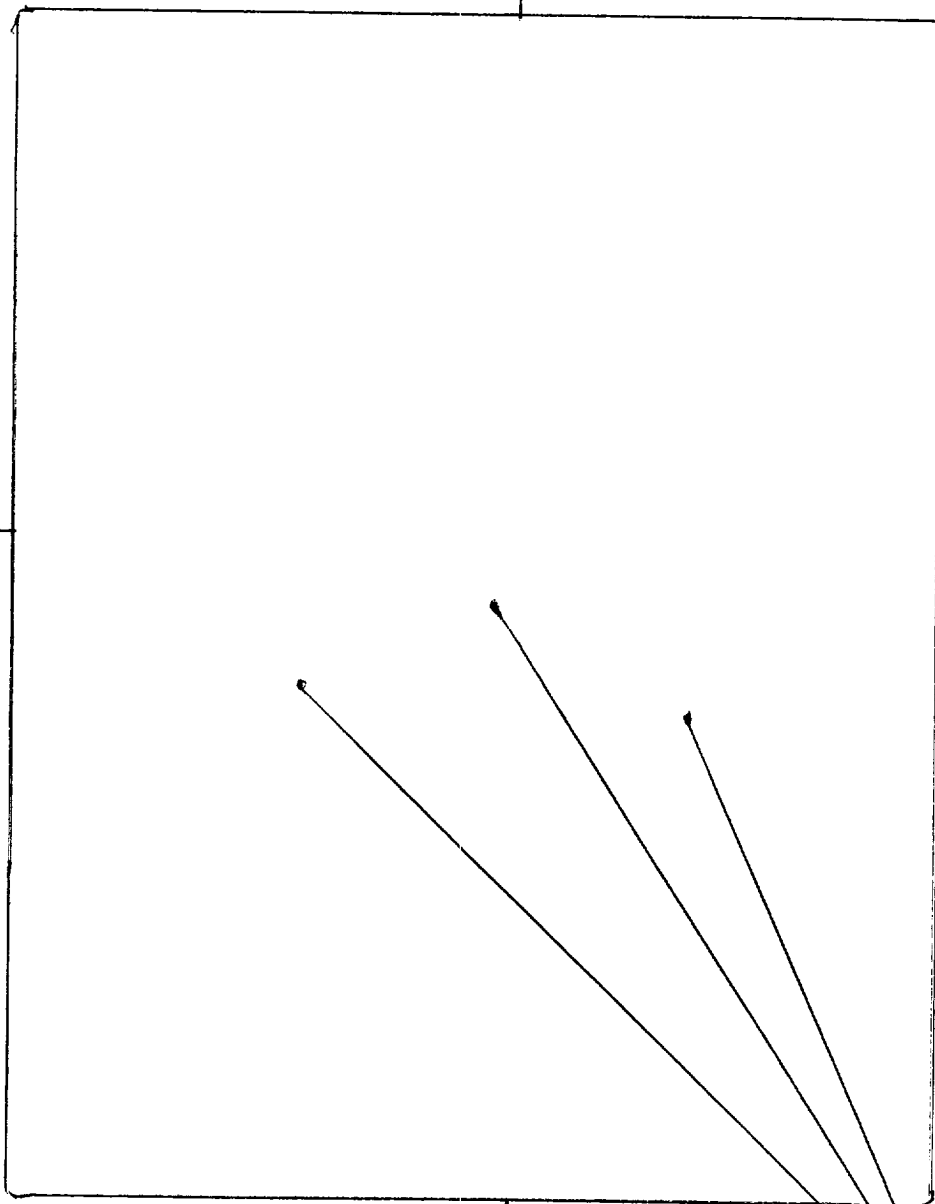
North Wall  
Sample 16'  
7.7 ppm

West Wall  
Sample 17'  
23.1 ppm

East Wall  
Sample 17'  
44.6 ppm

South Wall  
Sample 18'  
12.0 ppm

Bottom  
Sample 19'  
90.2 ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 23-Jul-98

---

**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9807040

---

## **CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Jul-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla L-8 Drip
<b>Work Order:</b>	9807040	<b>Client Sample ID:</b>	9807131534; 3pt. Comp. Bottom
<b>Lab ID:</b>	9807040-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/13/98 3:34:00 PM
		<b>COC Record:</b>	7263

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	50	25		mg/Kg	1	7/21/98

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Jul-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla L-8 Drip
<b>Work Order:</b>	9807040	<b>Client Sample ID:</b>	9807131533; 4pt. Comp. Walls
<b>Lab ID:</b>	9807040-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/13/98 3:33:00 PM
		<b>COC Record:</b>	7263

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				
T/R Hydrocarbons: C10-C28	57	25		mg/Kg	1	Analyst: HR 7/21/98

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

ANALYST: J. L. BLOOM, JR. (505) 325-5667 FAX: (505) 325-5668

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

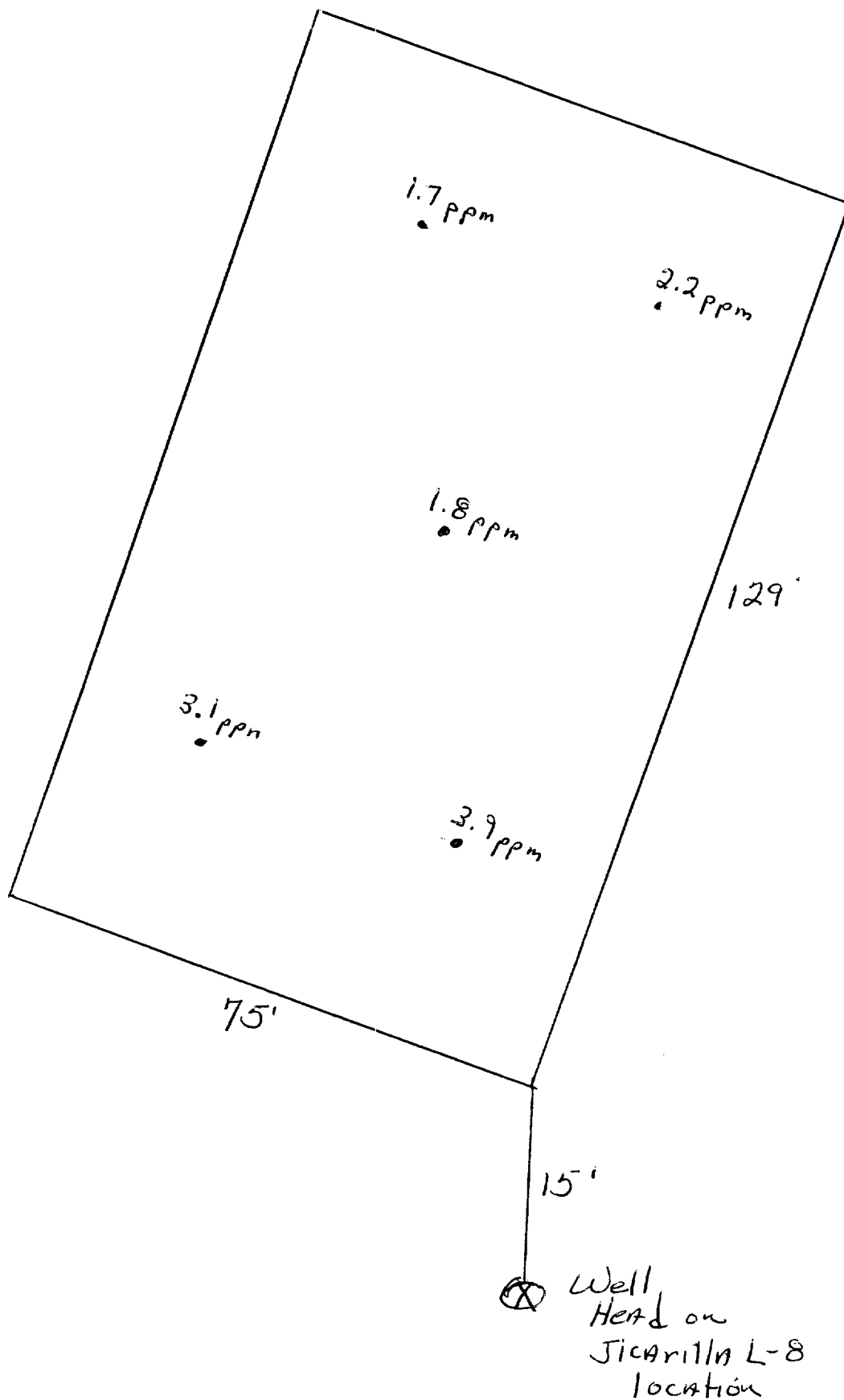
ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services (WFS)</u> Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla L-8 Drip</u>	
Location: Unit: <u>P</u> Sec. <u>33</u> T. <u>25</u> N. R. <u>5</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>7/13/98</u> Date Completed: <u>8/20/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>622</u> Composted <u>    </u> Other <u>    </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>8/17/98</u> Time <u>0707</u> Sampling Results: Field Headspace (ppm) <u>3.9</u> TPH (ppm) <u>98</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>8/29/98</u> PRINTED NAME <u>Roy Burnham</u>	
SIGNATURE <u>Roy Burnham</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>Kurt C Marshall</u> DATE: <u>9-9-98</u>	



Sect. 33 T25N R5W Unit P  
WFS

# Land farm Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 26-Aug-98

---

**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9808036

---

**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 26-Aug-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9808036  
**Lab ID:** 9808036-05A      **Matrix:** SOIL  
**Project:** PNM Pit Remediation

**Client Sample Info:** Jicarilla L-8 Drip LF  
**Client Sample ID:** 9808170707; 5pt. Comp.  
**Collection Date:** 8/17/98 7:07:00 AM  
**COC Record:** 7333/34/35

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				
T/R Hydrocarbons: C10-C28	98	25		mg/Kg	1	Analyst: HR 8/20/98

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1