

24

Stamp: Deputy Oil & Gas Inspector

FEB 08 1999

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 107-8 Drip
Location: Unit: A Sec. 33 T. 26N R. 4W County Rio Arriba
Pit Type: Separator Dehydrator Other Drip
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'
(Attach diagram) Reference: wellhead X other
Footage from reference: well head Jicarilla 107-8 660'
Direction from reference: 20° Degrees 1 East North X
West of South

Table with 4 columns: Category, Description, Points, Score. Rows include Depth to Ground Water, Wellhead Protection Area, Distance to Surface Water, Distance to Ephemeral Stream, and Distance to Nearest Lake, Playa, or Watering Pond. Total Ranking Score (Total Points) is 0.

Date Remediation Started: 10/30/98 Date Completed: 12/15/98 <sup>RAO</sup>  
~~10/30/98~~

Remediation Method: Excavation X Approx. Cubic Yards 27  
Landfarmed X Amount Landfarmed (cubic yds): 27  
(Check all appropriate sections)  
Other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Jicarilla 107-8  
(i.e., landfarmed onsite, name and location of offsite facility) Sec. 33, 26W, 4N, B

General Description of Remedial Action:  
Removed all contamination from 4 side walls to be below 100 ppm headspace reading.  
Back at 5' depth  
Excavated pit 12x12x5.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit Closure Sampling: Sample Location North wall, East wall, South wall & West wall  
(if multiple samples, attach sample result and diagram of sample locations and depths.)  
Sample depth 5'  
Sample date 10/30/98 Sample time 1150  
Sample Results  
Soil: Benzene (ppm) 0.007 Water: Benzene (ppb) \_\_\_\_\_  
Total BTEX (ppm) 0.4988 Toluene (ppb) \_\_\_\_\_  
Field headspace (ppm) 868 ppm Ethylbenzene (ppb) \_\_\_\_\_  
TPH ND ppm Method TPH-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 10/30/98 PRINTED NAME Gary Cook  
SIGNATURE: Gary Cook AND TITLE Environmental Technician

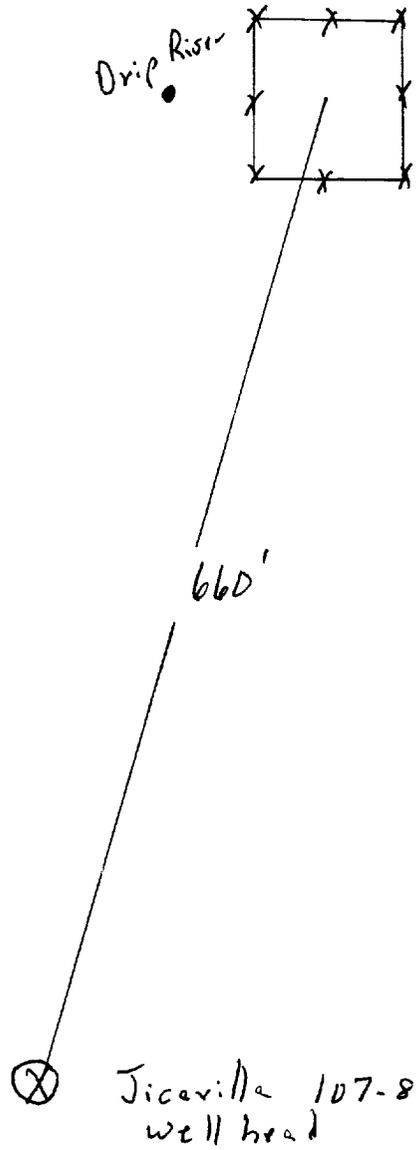
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.  
APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_  
SIGNED: Kenn C Marshall DATE: 11-30-98

Jicaville 107-8 Drip  
WFS  
Sec. 33, 26N, 4W, A

10-30-98

site Drawing:

↑  
N

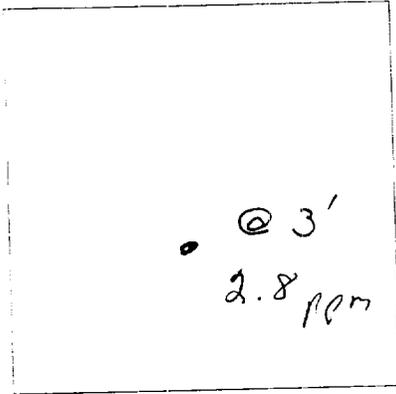


not to scale

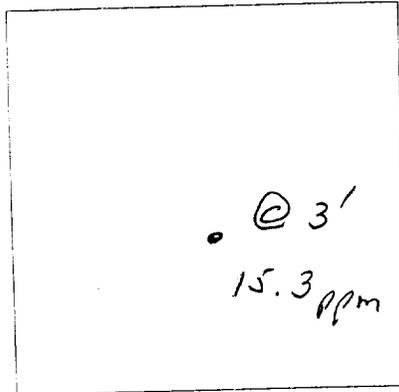
Jicoville 107-8 Drip  
WFS  
Sec. 33, 26W, 4N, A

10/30/98

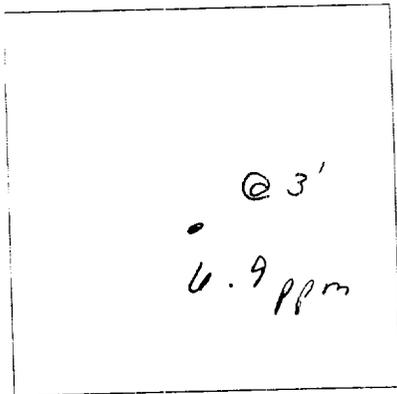
### North Wall



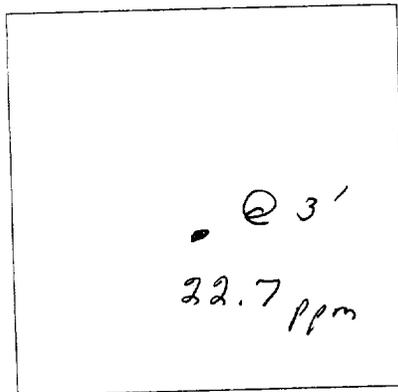
### South Wall



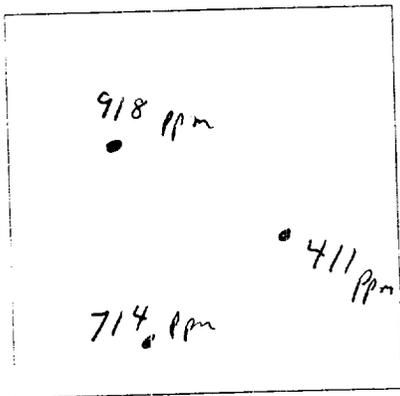
### East Wall



### West Wall



### Bottom



3pk. composite- 868

@ 5' depth

Rock

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 16-Nov-98

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

**Project:** Jicarilla 107-8 Drip

**Lab Order:** 9811004

**CASE NARRATIVE**

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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: 16-Nov-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9811004  
**Lab ID:** 9811004-01A **Matrix:** SOIL  
**Project:** Jicarilla 107-8 Drip

**Client Sample Info:** Jicarilla 107-8 Drip  
**Client Sample ID:** 9810301150; Bottom @ 5ft.  
**Collection Date:** 10/30/98 11:50:00 AM  
**COC Record:** 7414

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/11/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	7.2	1		µg/Kg	1	11/2/98
Toluene	8.6	2		µg/Kg	1	11/2/98
Ethylbenzene	17	1		µg/Kg	1	11/2/98
m,p-Xylene	380	2		µg/Kg	1	11/2/98
o-Xylene	86	1		µg/Kg	1	11/2/98

498.8  
.4988 ppm

**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

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 16-Nov-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla 107-8 Drip
<b>Work Order:</b>	9811004	<b>Client Sample ID:</b>	9810301155; Walls @ 3ft.
<b>Lab ID:</b>	9811004-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla 107-8 Drip	<b>Collection Date:</b>	10/30/98 11:55:00 AM
		<b>COC Record:</b>	7414

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/11/98

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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ON-SITE SOIL REMEDIATION REPORT

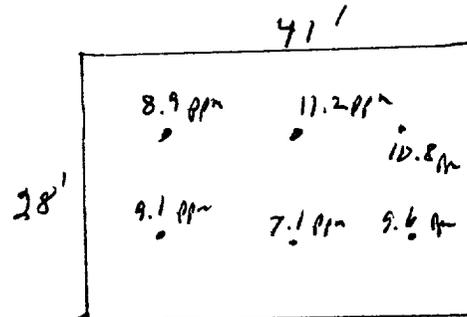
Operator: PNM Gas Services ( <u>WFS</u> ) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla 107-8 Drip</u>	
Location: Unit: <u>A</u> Sec. <u>33</u> T. <u>26 N</u> R. <u>4 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>10/30/98</u>	Date Completed: <u><del>10/30/98</del> 12/09/98</u>
Remediation Method: Landfarmed <input checked="" type="checkbox"/>	Approx. cubic yards <u>27 yards</u>
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>12/1/98</u> Time <u>0905</u> Sampling Results: Field Headspace (ppm) <u>21.6 ppm</u> TPH (ppm) <u>48</u> Method <u>TPH-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>12/14/98</u>	PRINTED NAME <u><del>Ronald A. Dodrick</del> Gary Cook</u>
SIGNATURE <u>Gary Cook</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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: <u>[Signature]</u>	DATE: <u>12-15-98</u>

Jicavilla 107-8 Orip  
WFS  
Sec. 33, 26N, 4W, A

10/30/98

↑  
N

Land Farmed: Jicavilla 107-8  
same legal



⊗ Jic. 107-8  
well head

2"-12" depth

Soil vapor headspace = 21.6 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 10-Dec-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9812004

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**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:** 10-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla 107-8 Drip LF
<b>Work Order:</b>	9812004	<b>Client Sample ID:</b>	9812010905; 6pt Composite
<b>Lab ID:</b>	9812004-01A <b>Matrix:</b> SOIL	<b>Collection Date:</b>	12/1/98 9:05:00 AM
<b>Project:</b>	Jicarilla Pit Remediation	<b>COC Record:</b>	7446

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	48	25		mg/Kg	1	12/9/98

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
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