

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507  
DULCE, NEW MEXICO 87528

ON  
RISK  
BTEX

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Tanner) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla 107-7  
Location: Unit: K Sec. 28 T. 26 N R. 4 W County Rio Arriba  
Pit Type: Separator X Dehydrator      Other       
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'  
(Attach diagram) Reference: wellhead X other       
Footage from reference: 155'  
Direction from reference: 10° Degrees      East of North X  
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)	<u>0</u>

**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)	<u>0</u>

**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)	<u>0</u>

**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)	<u>0</u>

**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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10-29-98 Date Completed: 12/15/98 RND  
10/30/98

Remediation Method: Excavation X Approx. Cubic Yards 217

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 217

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 4 side walls  
to get ~ below 100 ppm head space reading  
Bottom at 11' depth was rock  
pit excavation: 19' X 28' X 11'

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

Final Pit Closure Sampling:

Sample Location North wall, East wall, South wall & West wall  
Bottom 3 point composite

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

Sample depth 11'

Sample date 10/30/98 Sample time 0720

Sample Results

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

Total BTEX (ppm) 2.77 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 329 Ethylbenzene (ppb) \_\_\_\_\_

TPH 360 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.

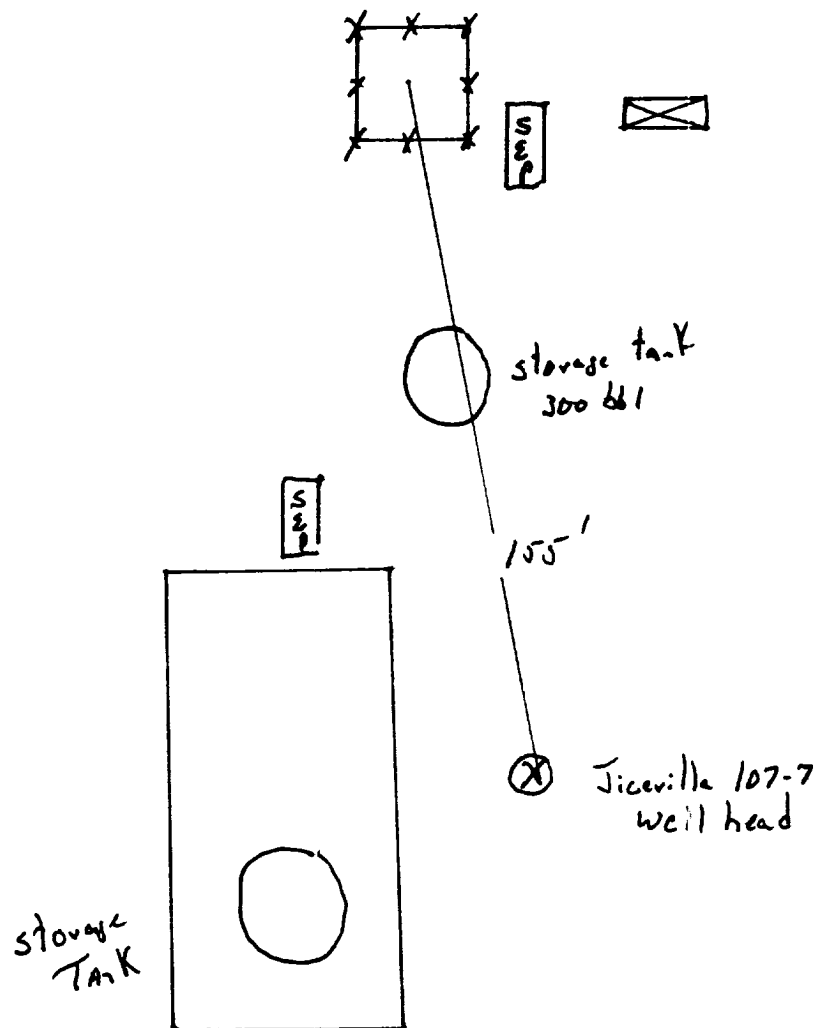
APPROVED: YES X NO \_\_\_\_\_ (REASON): \_\_\_\_\_

SIGNED: Ken C. Mank DATE: 11-30-98

Jicarilla 107-7  
Taurus  
Sec. 28, 26N, 4W, R

10/29/98

↑  
N



not to scale

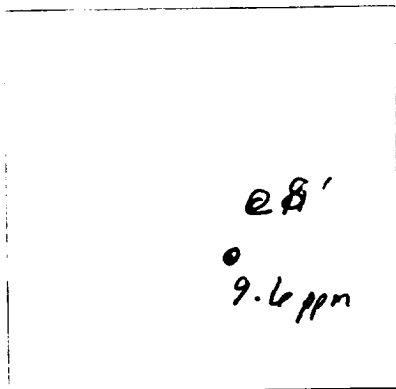
Jicaville 107-7

Taurus

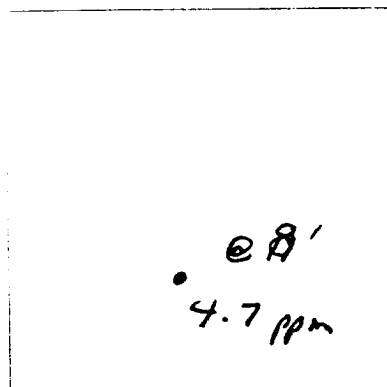
Sec 28, 26N, 4W, K

10/30/98

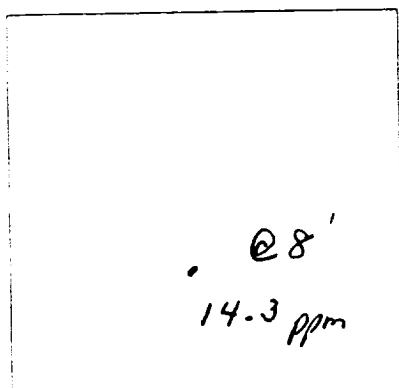
## North Wall



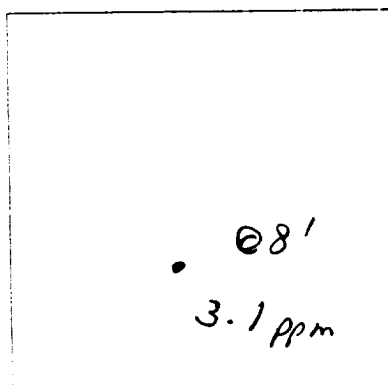
## South Wall



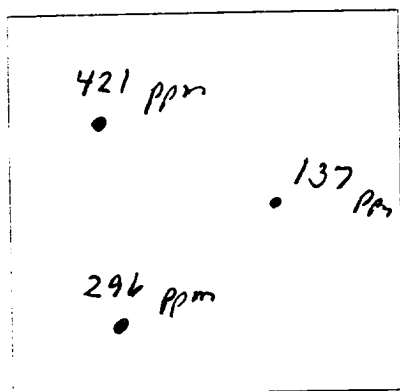
## East Wall



## West Wall



## Bottom



@ 11' depth  
Rock

3 pt. composite - 329

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 107-7

**Lab Order:** 9811003

## **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

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla 107-7
<b>Work Order:</b>	9811003	<b>Client Sample ID:</b>	9810300720; Bottom @ 11ft.
<b>Lab ID:</b>	9811003-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla 107-7	<b>Collection Date:</b>	10/30/98 7:20:00 AM
		<b>COC Record:</b>	7413

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				<b>Analyst: HR</b>
T/R Hydrocarbons: C10-C28	360	25		mg/Kg	1	11/11/98
<b>BTEX</b>		<b>SW8020A</b>				<b>Analyst: HR</b>
Benzene	ND	1		µg/Kg	1	11/2/98
Toluene	58	2		µg/Kg	1	11/2/98
Ethylbenzene	74	1		µg/Kg	1	11/2/98
m,p-Xylene	2000	100		µg/Kg	50	11/2/98
o-Xylene	640	50		µg/Kg	50	11/2/98

2,772

2.772 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

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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>	J:carilla 107-7
<b>Work Order:</b>	9811003	<b>Client Sample ID:</b>	9810300730; Walls @ 8ft.
<b>Lab ID:</b>	9811003-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla 107-7	<b>Collection Date:</b>	10/30/98 7:30:00 AM
		<b>COC Record:</b>	7413

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

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

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Surr: - Surrogate

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SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services ( <u>Tanner</u> ) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla 107-7</u>	
Location: Unit: <u>K</u> Sec. <u>28</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>10-29-98</u> Date Completed: <u>12/30/98* 12/09/90</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>217 yds</u>	
Composted <u>    </u>	
Other <u>    </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>12/1/98</u> Time <u>0840</u> Sampling Results: Field Headspace (ppm) <u>42.8 ppm</u> TPH (ppm) <u>430</u> Method <u>TOH-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>12/14/98</u>	PRINTED NAME <u><del>Ray Burnham</del> Gary Cook</u>
SIGNATURE <u><i>Gary Cook</i></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>NO Backfill</u>	
SIGNED: <u><i>Karl M...</i></u> DATE: <u>12-15-98</u>	



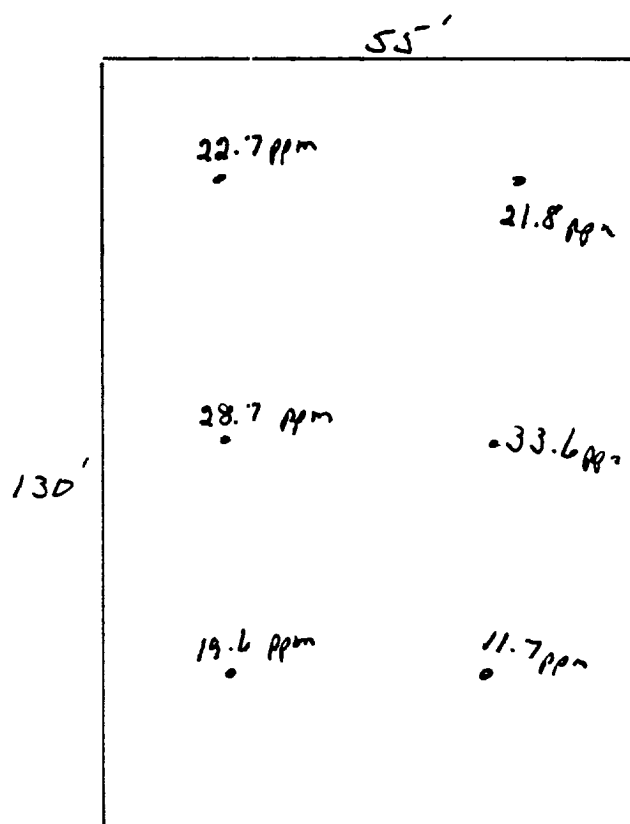
Jicavilla 107-7  
Taurus  
Sec. 28, 26N, 4W, R

10/30/98

↑  
N

Land farmed: On location

⊗  
Jic 107-7  
well head



2"-12" depth

soil vapor head space = 42.8 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:** 9812003

## **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.

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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 107-7 LF
<b>Work Order:</b>	9812003	<b>Client Sample ID:</b>	9812010840; 6pt Composite
<b>Lab ID:</b>	9812003-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	12/1/98 8:40:00 AM
		<b>COC Record:</b>	7445

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				
T/R Hydrocarbons: C10-C28	430	25		mg/Kg	1	Analyst: HR 12/9/98

Pit will be backfilled from borrow pit near  
Jic. land farm #6.

JK

<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

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