

OK

*George E. Faust*  
DEPUTY OIL & GAS INSPECTOR

FEB 08 1989

*Approved*

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 ( <u>BROG</u> )		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Jicarilla 103-6Y</u>			
Location:	Unit: <u>M</u>	Sec. <u>20</u>	T. <u>26 N</u> R. <u>4 W</u> County <u>Rio Arriba</u>
Pit Type:	Separator <u>    </u>	Dehydrator <u>XX</u>	Other <u>    </u>
Land Type:	<u>Jicarilla Apache</u>		
<hr/>			
Pit Location:	Pit dimensions: length <u>20'</u> width <u>20'</u> depth <u>3'</u>		
(Attach diagram)	Reference: wellhead <u>X</u> other <u>    </u>		
	Footage from reference: <u>140'</u>		
	Direction from reference: <u>10</u> Degrees <u>X</u> East North <u>    </u>		
	<u>    </u> West of South <u>X</u>		
<hr/>			
Depth to Ground Water:	Less than 50 feet	(20 points)	<u>    </u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet	(10 points)	<u>    </u>
	Greater than 100 feet	(0 points)	<u>    </u>
Wellhead Protection Area:	Yes	(20 points)	<u>    </u>
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No	(0 points)	<u>    </u>
Distance to Surface Water:	Less than 200 feet	(20 points)	<u>    </u>
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet	(10 points)	<u>    </u>
	Greater than 1,000 feet	(0 points)	<u>    </u>
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet	(10 points)	<u>    </u>
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet	(0 points)	<u>    </u>
Distance to Nearest Lake, Playa, or Watering Pond:	Less than or equal to 100 feet	(10 points)	<u>    </u>
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Greater than 100 feet	(0 points)	<u>    </u>
RANKING SCORE (TOTAL POINTS):			<u>    </u>

Date Remediation Started: 10/14/98 Date Completed: 1/6/99

Remediation Method: Excavation X Approx. Cubic Yards 504

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 504

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 four side walls and pit bottom as to get a below 100 ppm headspace reading. Final excavation: 36' X 21' X 18'.

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 18'

Sample date 10/15/98 Sample time 0820

0821'

Sample Results

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

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

Field headspace (ppm) 0.0 (bottom) Ethylbenzene (ppb) \_\_\_\_\_

12.8 (north wall)

TPH 28 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 10/27/98

PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham

AND TITLE Environmental Technician II

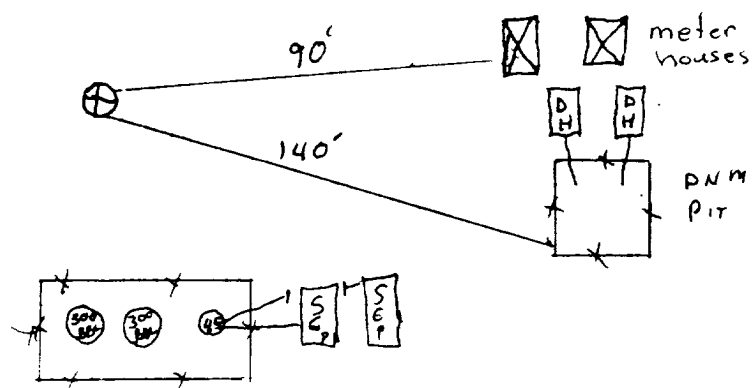
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

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

SIGNED: Ken C. Marshall DATE: 11-2-98

Jicarilla 103-6Y  
Sec. 20 T26N R.4W 4L M  
BROG

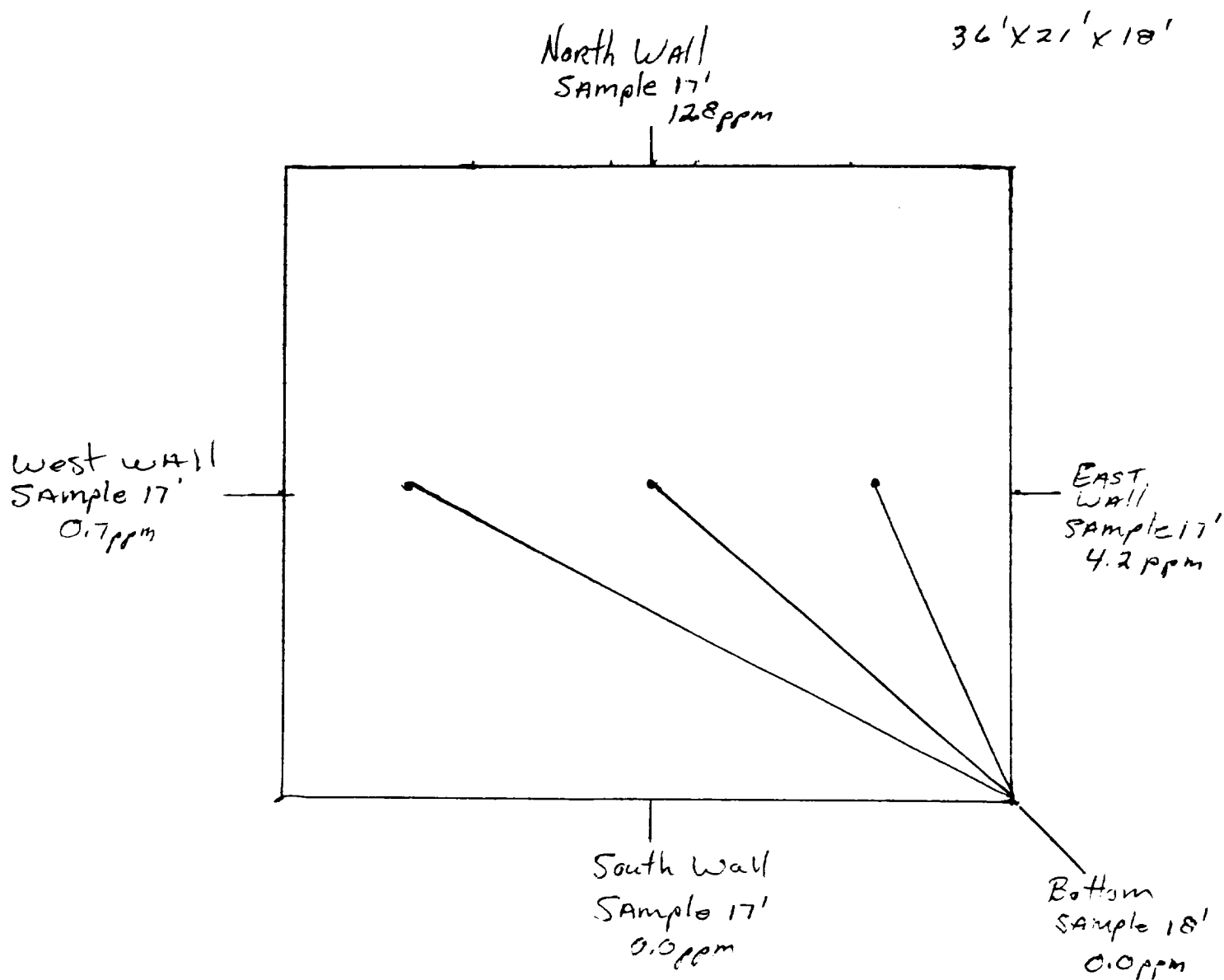
Site Drawing



NOT To Scale

Jicarilla 103-6Y  
Sec-20 T-26N R-4W 44(m)  
R906

# EXCAVATION Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 23-Oct-98

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

**Project:** Jicarilla 103-6Y

**Lab Order:** 9810055

## **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: 23-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla 103-6Y
<b>Work Order:</b>	9810055	<b>Client Sample ID:</b>	9810150821; 3pt. Comp Bottom
<b>Lab ID:</b>	9810055-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla 103-6Y	<b>Collection Date:</b>	10/15/98 8:21:00 AM
		<b>COC Record:</b>	7354

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	28	25		mg/Kg	1	10/22/98

**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

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla 103-6Y
<b>Work Order:</b>	9810055	<b>Client Sample ID:</b>	9810150820; 4pt. Comp. Walls
<b>Lab ID:</b>	9810055-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla 103-6Y	<b>Collection Date:</b>	10/15/98 8:20:00 AM
		<b>COC Record:</b>	7354

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	10/22/98

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- Technology Serving Industry with the Environment -

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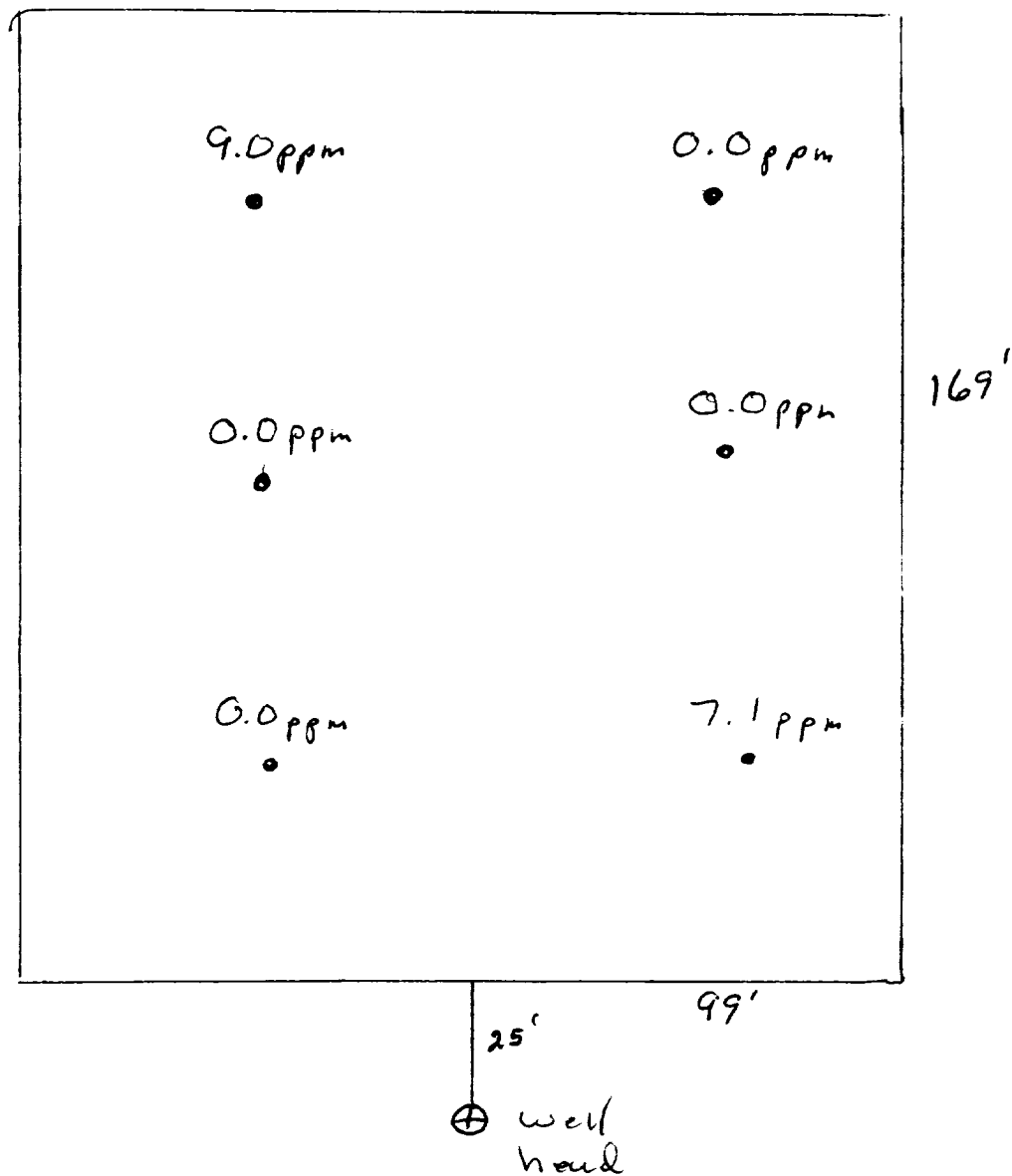
ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> <u>PNM Gas Services (BROG)</u> <b>Telephone:</b> <u>324-3764</u>	
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>	
<b>Facility or Well Name:</b> <u>JICARILLA 103-64</u>	
<b>Location:</b> Unit: <u>M</u> Sec. <u>20</u> T. <u>26N</u> R. <u>4 W</u> County <u>Rio Arriba</u>	
<b>Land Type:</b> <u>Jicarilla Apache</u>	
<b>Date Remediation Started:</b> <u>10/14/98</u> <b>Date Completed:</b> <u>12/9/98</u>	
<b>Remediation Method:</b> Landfarmed <u>X</u> Approx. cubic yards <u>504</u> Composted _____ Other _____	
<b>Depth to Ground Water:</b> (pts.) <u>0</u> <b>Distance to an Ephemeral Stream:</b> (pts.) <u>0</u> <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>0</u> <b>Wellhead Protection Area:</b> (pts.) <u>0</u> <b>Distance to Surface Water:</b> (pts.) <u>0</u> <b>Ranking Score (Total Points):</b> <u>0</u>	<b>Final Closure Sampling:</b> <b>Sampling Date:</b> <u>12/1/98</u> <b>Time</b> <u>0801</u> <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> <u>9.0</u> <b>TPH (ppm)</b> <u>520</u> <b>Method</b> <u>8015</u> <b>Other</b> _____
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p><b>DATE</b> <u>1/5/99</u> <b>PRINTED NAME</b> <u>Roy Burnham</u></p> <p><b>SIGNATURE</b> <u>Roy Burnham</u> <b>AND TITLE</b> <u>Environmental Technician II</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p> <p><b>APPROVED:</b> YES <u>X</u> NO _____ <b>(REASON)</b> <u>Don't use as backfill.</u></p> <p><b>SIGNED:</b> <u>Karena L. Callado</u> <b>DATE:</b> <u>01-06-99</u></p>	



JICARILLA 103-6Y  
Sec-20 T-26N R-4W 4L-M  
BROG

# LAND FARM DRAWING



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.

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 103-6Y LF
<b>Work Order:</b>	9812003	<b>Client Sample ID:</b>	9812010801; 6pt Composite
<b>Lab ID:</b>	9812003-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	12/1/98 8:01:00 AM
		<b>COC Record:</b>	7445

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	520	25		mg/Kg	1	12/9/98

<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

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• TESTED BY BLENDING INDUSTRIES WITH THE ENVIRONMENT

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