

*Benny L. Frost*  
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 (Conoco) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: JICARILLA K-14 #1

Location: Unit: RB #0 Sec. 11 T. 25N R. 5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 18' width 18' depth 3'

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 77'

Direction from reference: 45° Degrees ☒ East ☐ North ☒  
of  
☐ 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:

9/10/98

Date Completed:

1/6/99

Remediation Method:

Excavation

☒

Approx. Cubic Yards

196

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

196

Other

Remediation Location:

Onsite

☒

Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

## General Description of Remedial Action:

Removed contaminated soil from all four side walls as to get a below 100ppm headspace reading. Pit bottom is sandstone 3PT composite sample at pit bottom. Final excavation: 43' x 41' x 3'.

Ground Water Encountered:

No

☒

Yes

Depth

## Final Pit Closure Sampling:

Sample Location

North, East, South, West side wall and pit bottom

Sample depth

3'

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

Sample date

9/10/98

Sample time

1131

## Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

.0104

Toluene (ppb)

Field headspace (ppm)

113

Ethylbenzene (ppb)

TPH 37 ppm

Method

8015

Total Xylenes (ppb)

Ground Water Sample:

Yes

☐

No

☒

(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

10/3/98

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

☒

NO

☐

(REASON):

SIGNED:

K. C. McManis

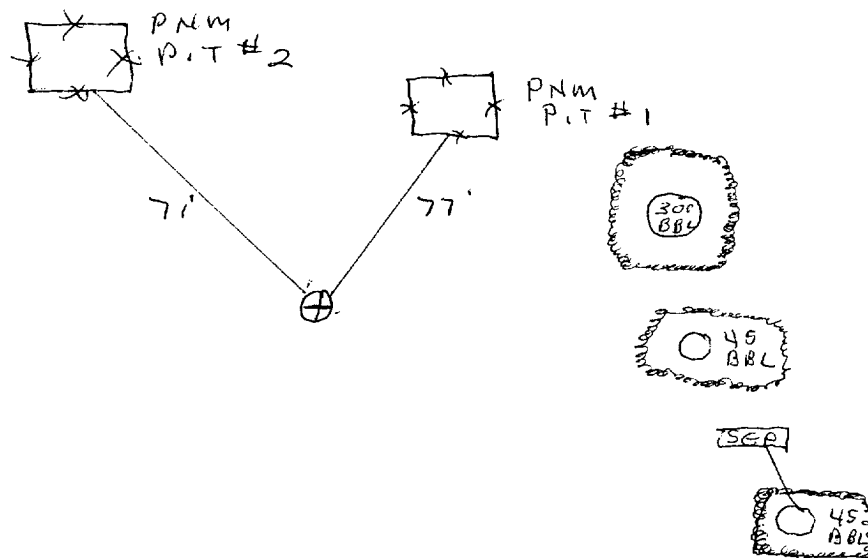
DATE:

11-2-98

Section 14  
Sec-11 T25N R-5W 4L-0  
Conoco

# Site Drawing

meter house

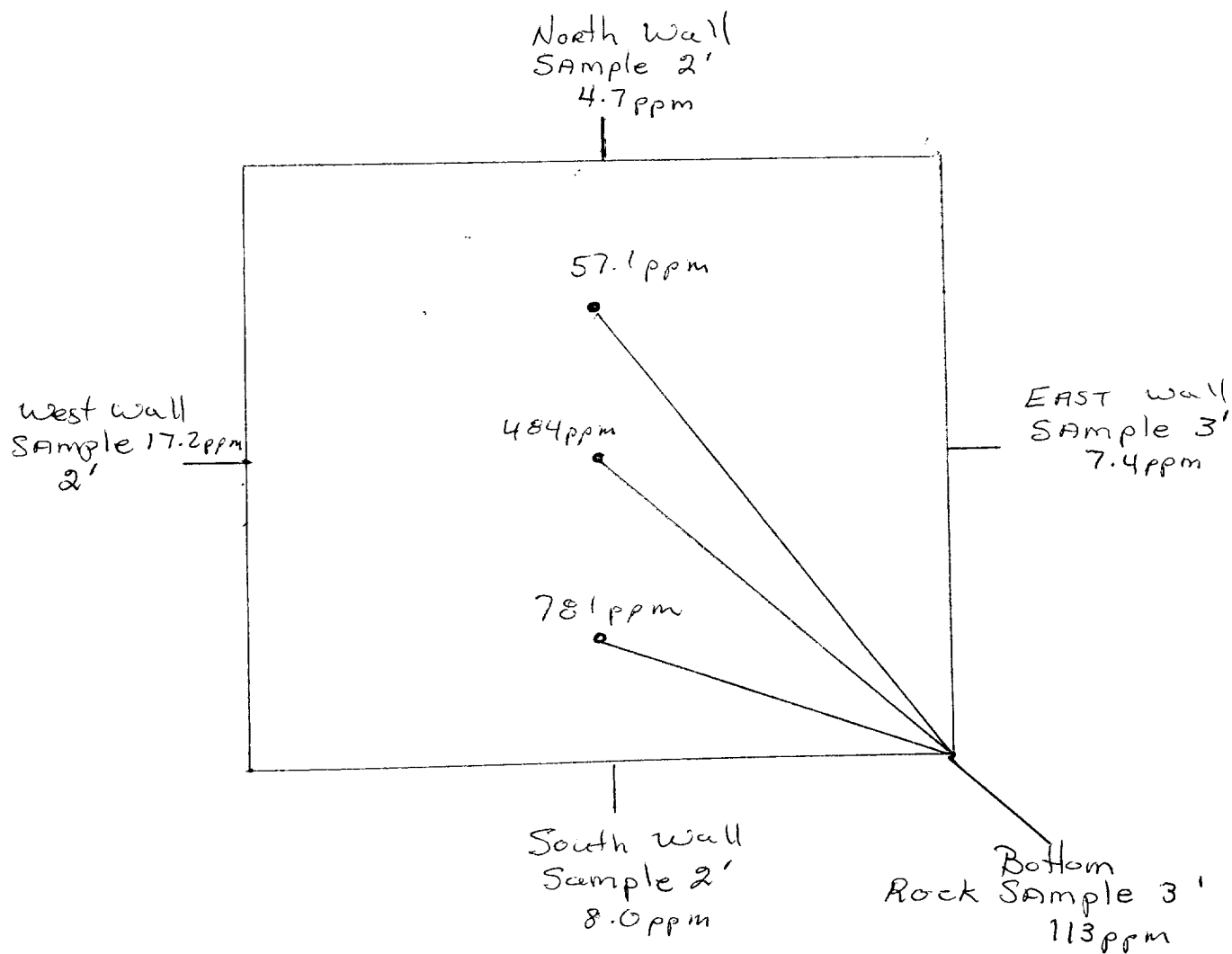


Not To Scale

Jicarilla K-14  
Sec-11 T-25N R-5W ul-0  
Conoco

# EXCAVATION DRAWING

43' x 41' x 3'



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 25-Sep-98

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

**Project:** Jicarilla Pits

**Lab Order:** 9809025

## **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: 25-Sep-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9809025  
**Lab ID:** 9809025-04A     **Matrix:** SOIL  
**Project:** Jicarilla Pits

**Client Sample Info:** Jicarilla K-14 #1  
**Client Sample ID:** 9809101131; 3pt. Comp. Bottom  
**Collection Date:** 9/10/98 11:31:00 AM  
**COC Record:** 7346

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	37	25		mg/Kg	1	9/22/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/17/98
Toluene	ND	2		µg/Kg	1	9/17/98
Ethylbenzene	ND	1		µg/Kg	1	9/17/98
m,p-Xylene	7.6	2		µg/Kg	1	9/17/98
o-Xylene	2.8	1		µg/Kg	1	9/17/98

10.40  
0.0104 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

Surrogate - Surrogate

1 of 1

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 25-Sep-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-14 #1
<b>Work Order:</b>	9809025	<b>Client Sample ID:</b>	9809101130; 4pt. Comp. Walls
<b>Lab ID:</b>	9809025-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pits	<b>Collection Date:</b>	9/10/98 11:30:00 AM
		<b>COC Record:</b>	7346

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	35	25		mg/Kg	1	9/16/98

**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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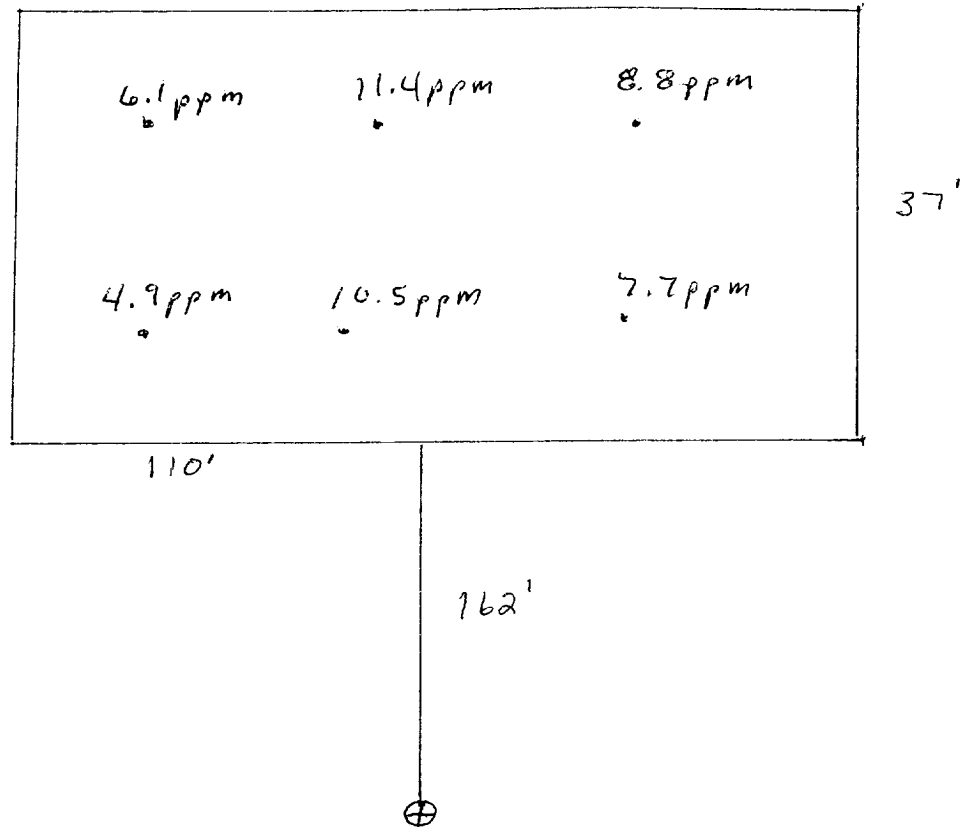
ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services ( <u>Conoco</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 K-14 #1</u>	
<b>Location:</b> Unit or Qtr/Qtr Sec: <u>9</u> Sec. <u>11</u> T. <u>25 N</u> R. <u>5 W</u> County <u>RIO ARriba</u>	
<b>Land Type:</b> _____	
<b>Date Remediation Started:</b> <u>9/10/98</u> <b>Date Completed:</b> <u>10/14/98</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>196</u> Composted _____ Other _____	
<b>Depth to Ground Water:</b> (pts.) <u>0</u>	<b>Final Closure Sampling:</b>  <b>Sampling Date:</b> <u>10/12/98</u> <b>Time</b> <u>1635</u> <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> <u>11.4</u> <b>TPH (ppm)</b> <u>1700</u> <b>Method</b> <u>8015</u> <b>Other</b> _____
<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>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
<b>DATE</b> <u>1/5/99</u>	<b>PRINTED NAME</b> <u>Roy Burnham</u>
<b>SIGNATURE</b> <u>Roy Burnham</u>	<b>AND TITLE</b> <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	
<b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO _____ <b>(REASON)</b> <u>Do not use as backfill.</u>	
<b>SIGNED:</b> <u>Karena L. Callado</u>	<b>DATE:</b> <u>01-06-99</u>



SHARING R-14  
Sec-11 T25N R-54 U-0  
Conoco

# LAND farm Drawing



Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 16-Oct-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9810036

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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: 16-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-14 #1 LF
<b>Work Order:</b>	9810036	<b>Client Sample ID:</b>	9810121635; 6pt. Comp.
<b>Lab ID:</b>	9810036-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/12/98 4:35:00 PM
		<b>COC Record:</b>	7407

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	1700	25		mg/Kg	1	10/14/98

<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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