

02

*Henry...*  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

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

FEB 08 1999

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507  
DULCE, NEW MEXICO 87528

*Approved*

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> <u>PNM Gas Services (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-6</u>			
<b>Location:</b>	Unit: <u>N</u>	Sec. <u>11</u>	T. <u>25 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>
<b>Pit Type:</b>	Separator <input checked="" type="checkbox"/>	Dehydrator <input type="checkbox"/>	Other <input type="checkbox"/>
<b>Land Type:</b> <u>Jicarilla Apache</u>			
<b>Pit Location:</b>	Pit dimensions: length <u>20'</u> width <u>20'</u> depth <u>3'</u>		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
	Footage from reference: <u>120'</u>		
	Direction from reference: <u>04E</u> Degrees <input type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> South <input type="checkbox"/> of <input type="checkbox"/> West		
<b>Depth to Ground Water:</b> <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	
<b>Wellhead Protection Area:</b> <small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>	Yes	(20 points)	<u>0</u>
	No	(0 points)	
<b>Distance to Surface Water:</b> <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet	(20 points)	
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	(0 points)	<u>0</u>
<b>Distance to Ephemeral Stream (dry wash):</b> <small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>	Less than or equal to 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>
<b>RANKING SCORE (TOTAL POINTS):</b>			<u>0</u>

Date Remediation Started: 9/8/98 Date Completed: 12/28/98

Remediation Method: Excavation  Approx. Cubic Yards 1023

(Check all appropriate sections) Landfarmed  Amount Landfarmed (cubic yds): 1023

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 100 ppm headspace reading. Pit bottom is sandstone Rock 3 PT composite of Pit bottom  
Final excavation: 58' X 34' X 14'.

Ground Water Encountered: No  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 14'

Sample date 9/9/98 Sample time 1413

Sample Results

Soil: Benzene (ppm) 0.330 Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 41.230 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 990 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND 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

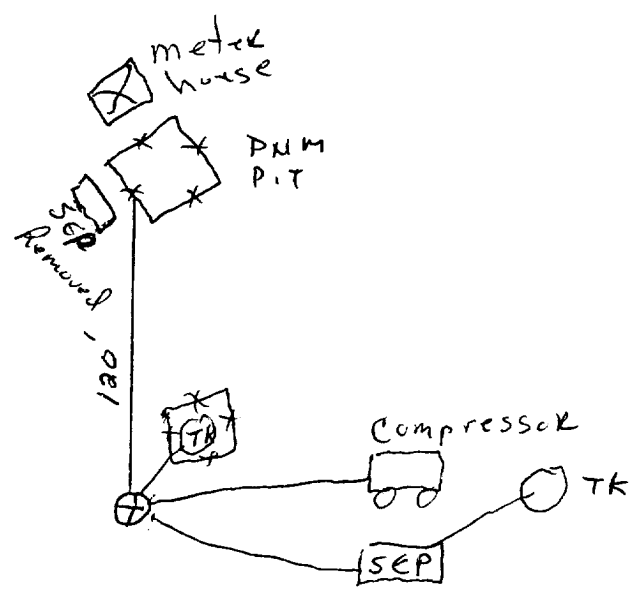
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

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

SIGNED: [Signature] DATE: 11-2-98

JICAR, 114 N-V  
Sec 11 T-254 R-SW unit(N)

### Site Drawing



Not to Scale

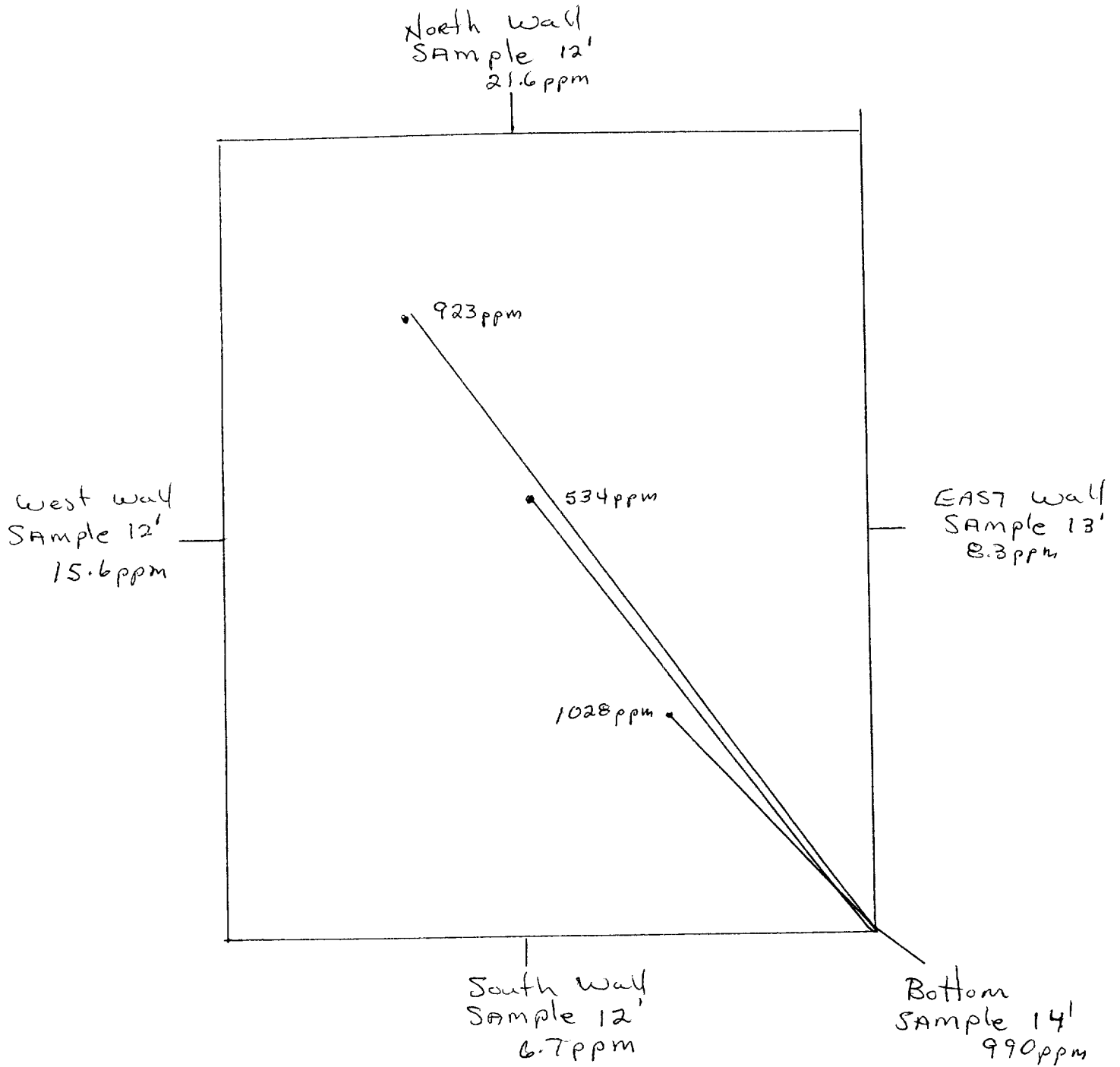
JICARILLA K-6

SEC-11 T-25N R-5W U-1N

CONOCO

58'x34'x14'

### EXCAVATION DRAWING



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

Date: 25-Sep-98

---

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pits  
**Lab Order:** 9809025

---

**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.



**ANALYTICAL REPORT**

Date: 25-Sep-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-6
<b>Work Order:</b>	9809025	<b>Client Sample ID:</b>	9809091413; 3pt. Comp. Bottom
<b>Lab ID:</b>	9809025-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pits	<b>Collection Date:</b>	9/9/98 2:13:00 PM
		<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	ND	25		mg/Kg	1	9/22/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	330	250		µg/Kg	250	9/17/98
Toluene	5000	500		µg/Kg	250	9/17/98
Ethylbenzene	3600	250		µg/Kg	250	9/17/98
m,p-Xylene	26000	500		µg/Kg	250	9/17/98
o-Xylene	6300	250		µg/Kg	250	9/17/98

41230  
41.230 ppm

<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

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-6
<b>Work Order:</b>	9809025	<b>Client Sample ID:</b>	9809091412; 4pt. Comp. Walls
<b>Lab ID:</b>	9809025-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pits	<b>Collection Date:</b>	9/9/98 2:12:00 PM
		<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	ND	25		mg/Kg	1	9/16/98

**Qualifiers:**

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

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

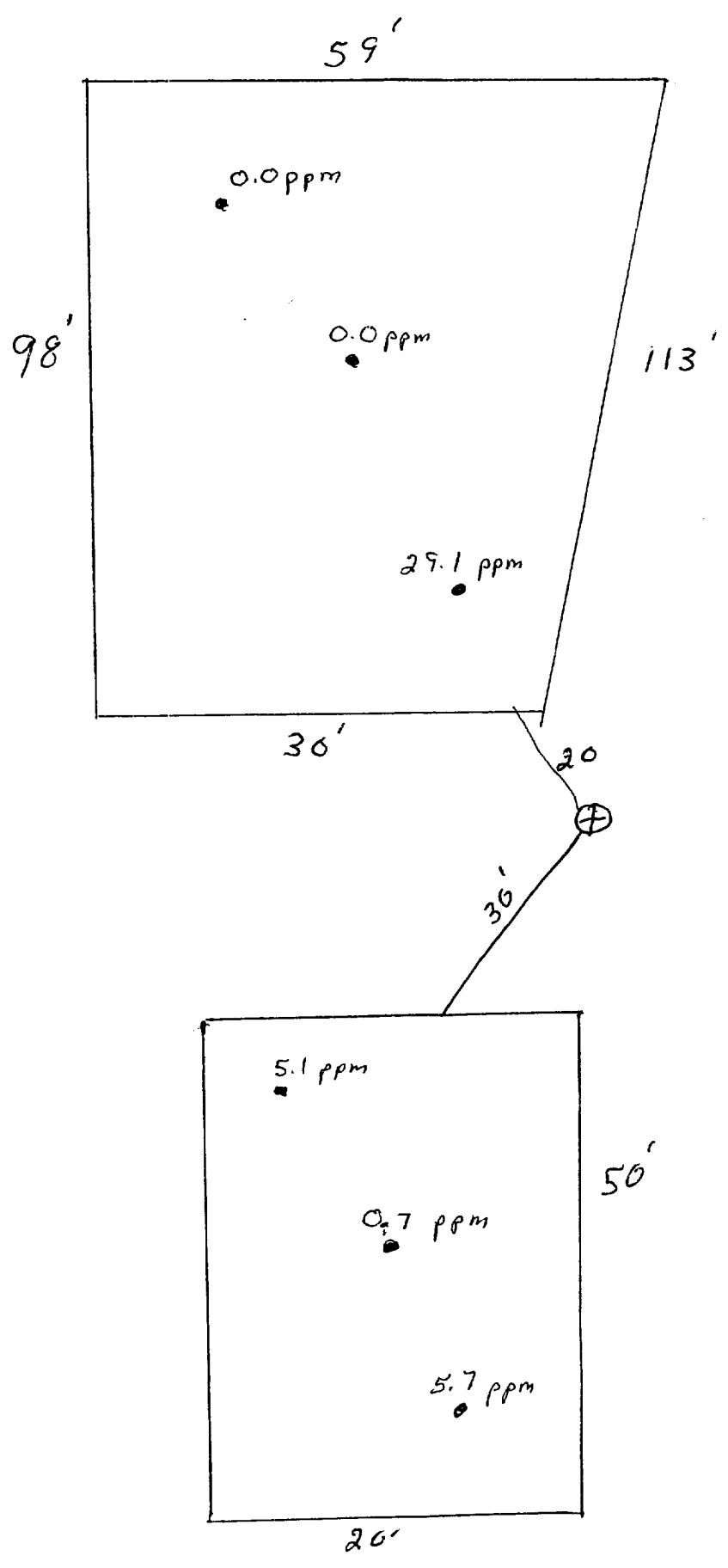
ON-SITE SOIL REMEDIATION REPORT #1

Operator: PNM Gas Services (Conoco) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: JICARILLA K-6	
Location: Unit or Qtr/Qtr Sec: N Sec. 11 T. 25 N R. 5 W County Rio Arriba	
Land Type:	
Date Remediation Started: 9/8/98	Date Completed: 10/14/98
Remediation Method: Landfarmed <input checked="" type="checkbox"/>	Approx. cubic yards 682
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) 0	Final Closure Sampling: Sampling Date: 10/12/98 Time 1625 Sampling Results: Field Headspace (ppm) 29.1 TPH (ppm) ND Method 8015 Other
Distance to an Ephemeral Stream: (pts.) 0	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 0	
Wellhead Protection Area: (pts.) 0	
Distance to Surface Water: (pts.) 0	
Ranking Score (Total Points): 0	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE 10/25/98	PRINTED NAME Roy Burnham
SIGNATURE Roy Burnham	AND TITLE Environmental Technician II
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) use as Backfill	
SIGNED: Ken C Moore	DATE: 11-2-98



SEC 11 T25N R5W unit (N)  
Conoco

# LAND FARM DRAWING



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 16-Oct-98

---

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

---

**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-6 LF
<b>Work Order:</b>	9810036	<b>Client Sample ID:</b>	9810121625; 6pt. Comp.
<b>Lab ID:</b>	9810036-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/12/98 4:25:00 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	ND	25		mg/Kg	1	10/14/98

**Qualifiers:**

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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 #2

Operator: PNM Gas Services (Conoco) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla K-6  
Location: Unit: N Sec. 11 T. 25 N R. 5 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 9/8/98 Date Completed: 12/18/98  
Remediation Method: Landfarmed  Approx. cubic yards 341  
Composted   
Other

Depth to Ground Water: (pts.) 0  
Distance to an Ephemeral Stream: (pts.) 0  
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 0  
Wellhead Protection Area: (pts.) 0  
Distance to Surface Water: (pts.) 0  
Ranking Score (Total Points): 0

Final Closure Sampling:  
Sampling Date: 12/14/98 Time 0733  
Sampling Results:  
Field Headspace (ppm) 81.2  
TPH (ppm) N/A Method 8015  
Other \_\_\_\_\_

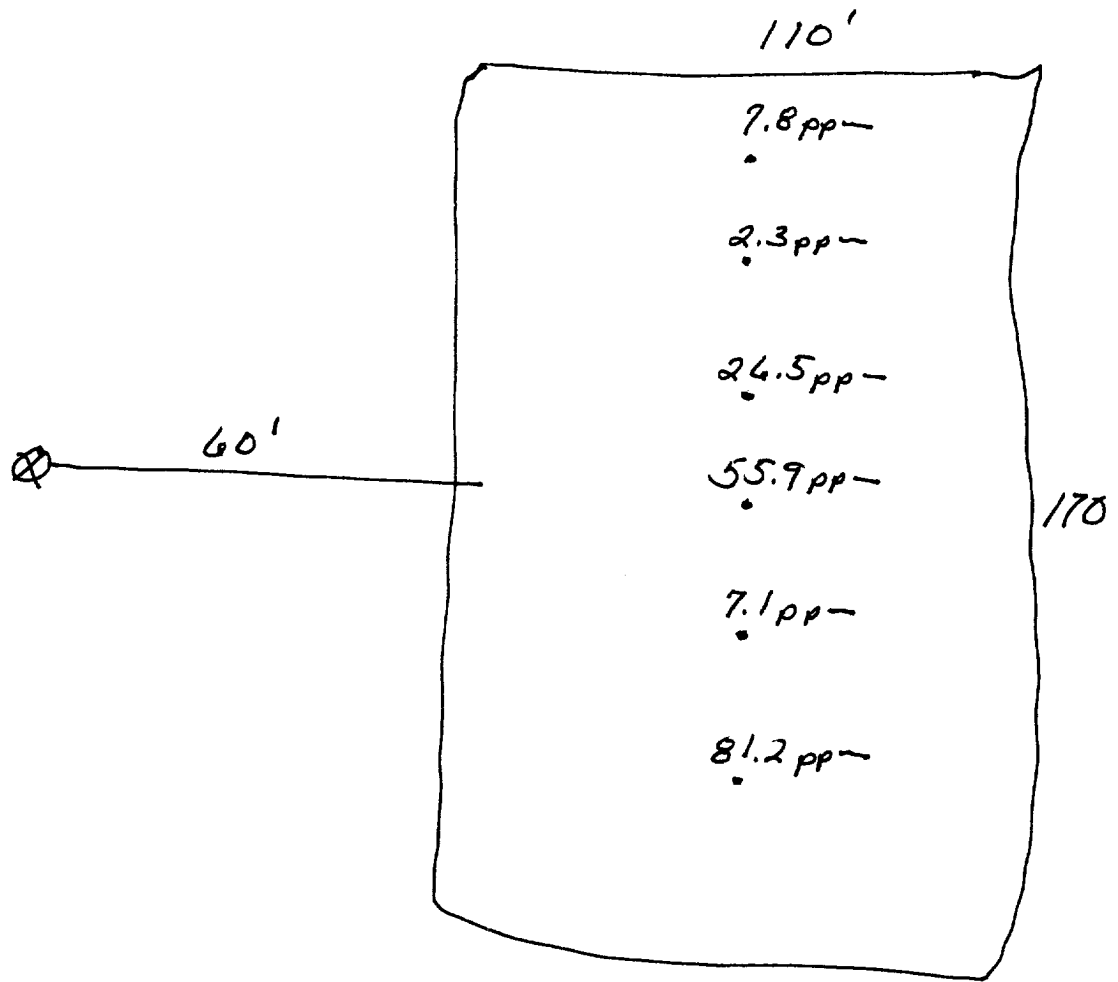
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12/28/98 PRINTED NAME Ronald A. Dedrick  
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE  
APPROVED: YES  NO  (REASON) \_\_\_\_\_  
SIGNED: Karl M... DATE: 12-28-98

Sec. 11 T25N R5W Unit N  
204000

# Landform Drawing #2



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 21-Dec-98

---

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

**Project:** Jicarilla Pit Remediation

**Lab Order:** 9812030

**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: 21-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-6 LF #2
<b>Work Order:</b>	9812030	<b>Client Sample ID:</b>	9812140733 6pt Comp
<b>Lab ID:</b>	9812030-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	12/14/98 7:33:00 AM
		<b>COC Record:</b>	7452

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	12/18/98

**Qualifiers:**

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 -