

04

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

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

FEB 08 1999

P.O. BOX 507  
DULCE, NEW MEXICO 87528

*Approved*

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: PNM Gas Services (CONDOCO) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla K3

Location: Unit: N Sec. 1 T. 25N R. 5W County Rio Arriba

Pit Type: Separator  Dehydrator  Other Manual drip blowdown

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'

(Attach diagram) Reference: wellhead  other

Footage from reference: 104'

Direction from reference: 32 Degrees  East North   
 West of  South

<b>Depth to Ground Water:</b> (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)	<u>0</u>
	Greater than 100 feet (0 points)	
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes (20 points)	<u>0</u>
	No (0 points)	
<b>Distance to Surface Water:</b> (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)	<u>0</u>
	Greater than 1,000 feet (0 points)	
<b>Distance to Ephemeral Stream (dry wash):</b> (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet (10 points)	<u>0</u>
	Greater than 100 feet (0 points)	
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Less than or equal to 100 feet (10 points)	<u>0</u>
	Greater than 100 feet (0 points)	
<b>RANKING SCORE (TOTAL POINTS):</b>		<u>0</u>

RECEIVED  
FEB - 1 1999

OIL & GAS DIV.  
DIST. 2

Date Remediation Started: 10-9-98 Date Completed: 12/15/98

Remediation Method: Excavation  Approx. Cubic Yards 521

(Check all appropriate sections) Landfarmed  Amount Landfarmed (cubic yds): 521

Other \_\_\_\_\_

Remediation Location: Onsite  Offsite \_\_\_\_\_

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

**General Description of Remedial Action:**

*Removal of contaminated soil from all four sidewalls as to get a below 100ppm head space reading. Bottom is rock.  
Final excavation dimension: 37.5(N+S) x 37.5(E+W) x 10' @*

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

**Final Pit Closure Sampling:**

Sample Location North, East, South, and West sidewalls and a three point composite sample of the rock bottom.

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

Sample depth 10'

Sample date 10-9-98 Sample time 1300 1255

**Sample Results**

Soil: Benzene (ppm) N/D Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 13.81 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 669 Ethylbenzene (ppb) \_\_\_\_\_

TPH 84 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 10-22-98 PRINTED NAME Ray Haston

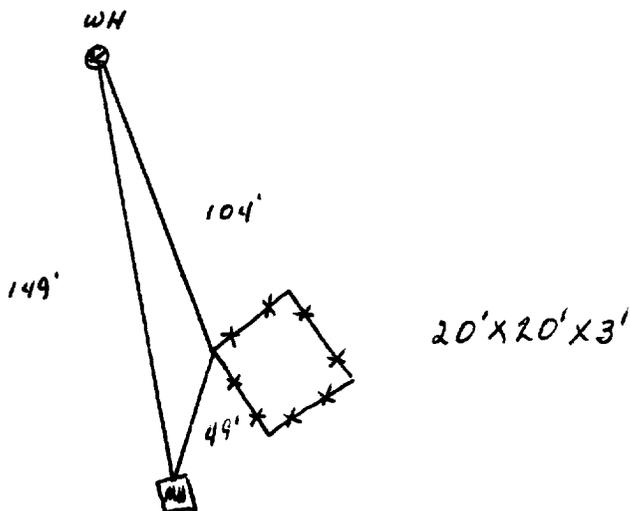
SIGNATURE Ray Haston AND TITLE Environmental Technician

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

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

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

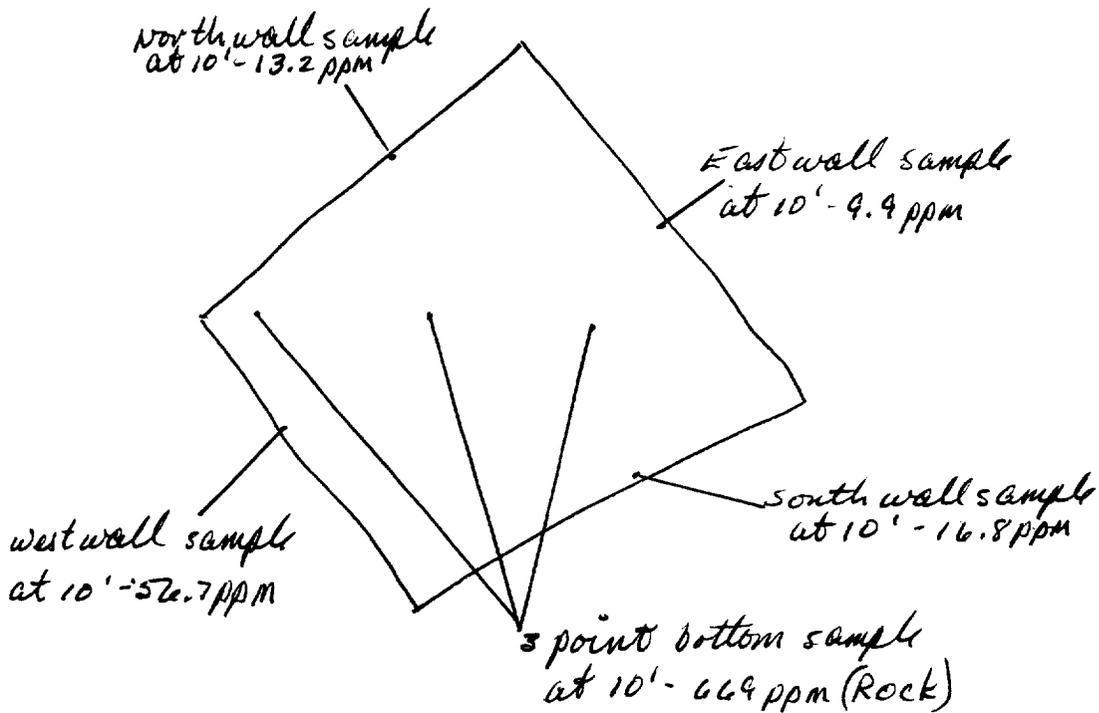
Jicarilla K3  
 (P) 1-25N-5W  
 CONOCO  
 10-9-98



Excavation sampling

37.5'(N+S) X 37.5'(E+W) X 10' (D)

5' sample - 761  
 10' sample - 904



not to scale



**On Site Technologies, LTD.**

**Date:** 21-Oct-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation  
**Lab Order:** 9810028

**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.



**ANALYTICAL REPORT**

Date: 21-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K3
<b>Work Order:</b>	9810028	<b>Client Sample ID:</b>	9810091255; 3pt. Comp Bottom
<b>Lab ID:</b>	9810028-06A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/9/98 12:55:00 PM
		<b>COC Record:</b>	5764

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	84	25		mg/Kg	1	10/19/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	ND	50		µg/Kg	50	10/16/98
Toluene	1900	100		µg/Kg	50	10/16/98
Ethylbenzene	710	50		µg/Kg	50	10/16/98
m,p-Xylene	9200	100		µg/Kg	50	10/16/98
o-Xylene	2000	50		µg/Kg	50	10/16/98

13,810  
13.810 ppm *OK*

<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

OFF: (505) 325-5667



LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date:** 21-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K3
<b>Work Order:</b>	9810028	<b>Client Sample ID:</b>	9810091300; 4pt. Comp Walls
<b>Lab ID:</b>	9810028-07A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation	<b>Collection Date:</b>	10/9/98 1:00:00 PM
		<b>COC Record:</b>	5764

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	36	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
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JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services</u> ( <u>CONOCO</u> ) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street</u> Farmington, NM 87401	
Facility or Well Name: <u>Jicarilla K3 Land Farm</u>	
Location: Unit <u>N</u> Sec <u>1</u> T <u>26 N</u> R <u>5 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>10/9/98</u> Date Completed: <u>12/3/98</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>521</u> Composted <input type="checkbox"/> Other _____	
Depth to Ground Water: (pts.) <u>0</u>	<b>Final Closure Sampling:</b> Sampling Date: <u>11/30/98</u> Time <u>1223</u> <b>Sampling Results:</b> Field Headspace (ppm) <u>1.2</u> TPH (ppm) <u>78</u> Method <u>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>	
<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 MY BELIEF.	
DATE: <u>12-4-98</u>	PRINTED NAME <u>Ray Haston</u>
SIGNATURE: <u>Ray Haston</u>	TITLE <u>Environmental Tech. III</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE:	
APPROVED: YES <input checked="" type="checkbox"/> NO _____ (REASON): <u>use as Backfill</u>	
SIGNATURE: <u>Kent M. [Signature]</u>	DATE: <u>12-15-98</u>

OFF: (505) 325-5667



LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date:** 04-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-3 LF
<b>Work Order:</b>	9812001	<b>Client Sample ID:</b>	9811301223; 6pt. Composite
<b>Lab ID:</b>	9812001-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation Landfarms	<b>Collection Date:</b>	11/30/98 12:23:00 PM
		<b>COC Record:</b>	7444

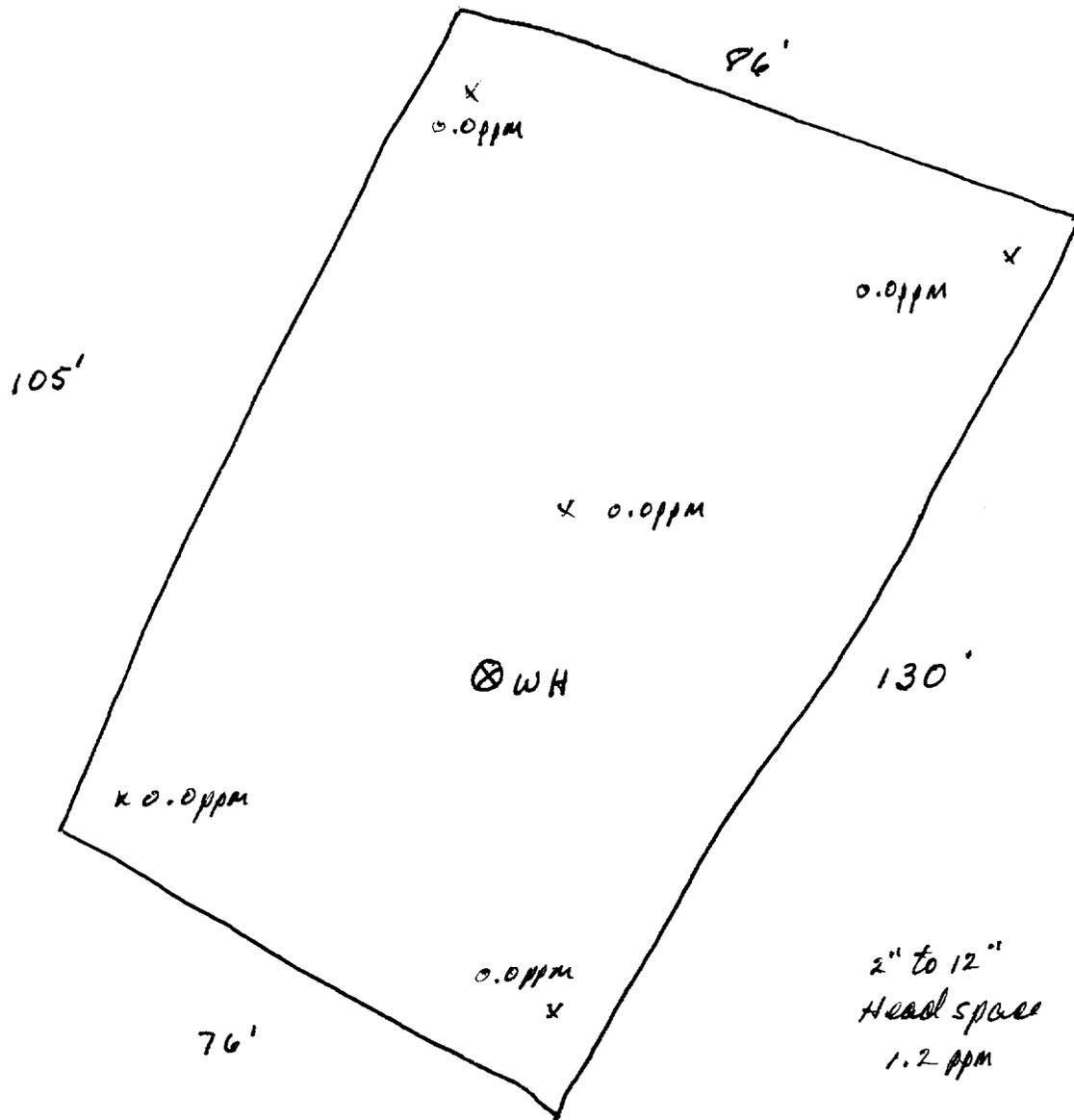
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	78	25		mg/Kg	1	12/3/98

**Qualifiers:**

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B - Analyte detected in the associated Method Blank	Surr: - Surrogate

**P.O. BOX 2606 • FARMINGTON, NM 87499**

Jicarilla K3  
(N) 1-25N-5W  
CONOCO  
521 yds.



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 04-Dec-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Jicarilla Pit Remediation Landfarms  
**Lab Order:** 9812001

**CASE NARRATIVE**

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Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

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### ANALYTICAL REPORT

Date: 04-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla K-3 LF
<b>Work Order:</b>	9812001	<b>Client Sample ID:</b>	9811301223; 6pt. Composite
<b>Lab ID:</b>	9812001-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Pit Remediation Landfarms	<b>Collection Date:</b>	11/30/98 12:23:00 PM
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